

Rittal – The System.

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► Catalog 34 2015/2016 North American Edition



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES



FRIEDHELM LOH GROUP

Courtesy of Steven Engineering, Inc - (800) 258-9200 www.stevenengineering.com

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Dear Sir/Madam,

A fundamental epithet of the Friedhelm Loh Group reads:

“We view our customers as partners who determine the success of the company.”

We exist to solve your challenges. We see that the quality, technical design, scope and availability of our products leave nothing to be desired. This is the goal to which our highly-motivated global workforce strive for – day in, day out.

With us, you benefit from our powers of innovation as the market leader.

We make you quicker and better.

When it comes to our innovation, we have more than just a wealth of new products to unveil. We have further refined our globally unique Rittal Value-Added Chain. Start and rationalize your planning with engineering software and the data portal from Eplan, while harnessing the power of “Rittal – The System.” to quickly and efficiently realize your power distribution or control system solutions.

Our software helps you to calculate climate control data to select the perfect cooling unit, just as we are already supporting you with intelligent processing machines. We target greater efficiency from all your processes.

And Rittal has another world first for your success: the RiMatrix S standardized data center, which dispenses with long planning and installation times. Truly “Faster – better – everywhere.” The Rittal Catalog is your tool for finding the products and system accessories you need quickly and easily.

We would like to thank you for your ideas and valuable contributions. We look forward to all the future innovations we will develop together.

We wish you the greatest success!

Sincerely,



Friedhelm Loh
Owner and CEO
Friedhelm Loh Group



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TOP EMPLOYER

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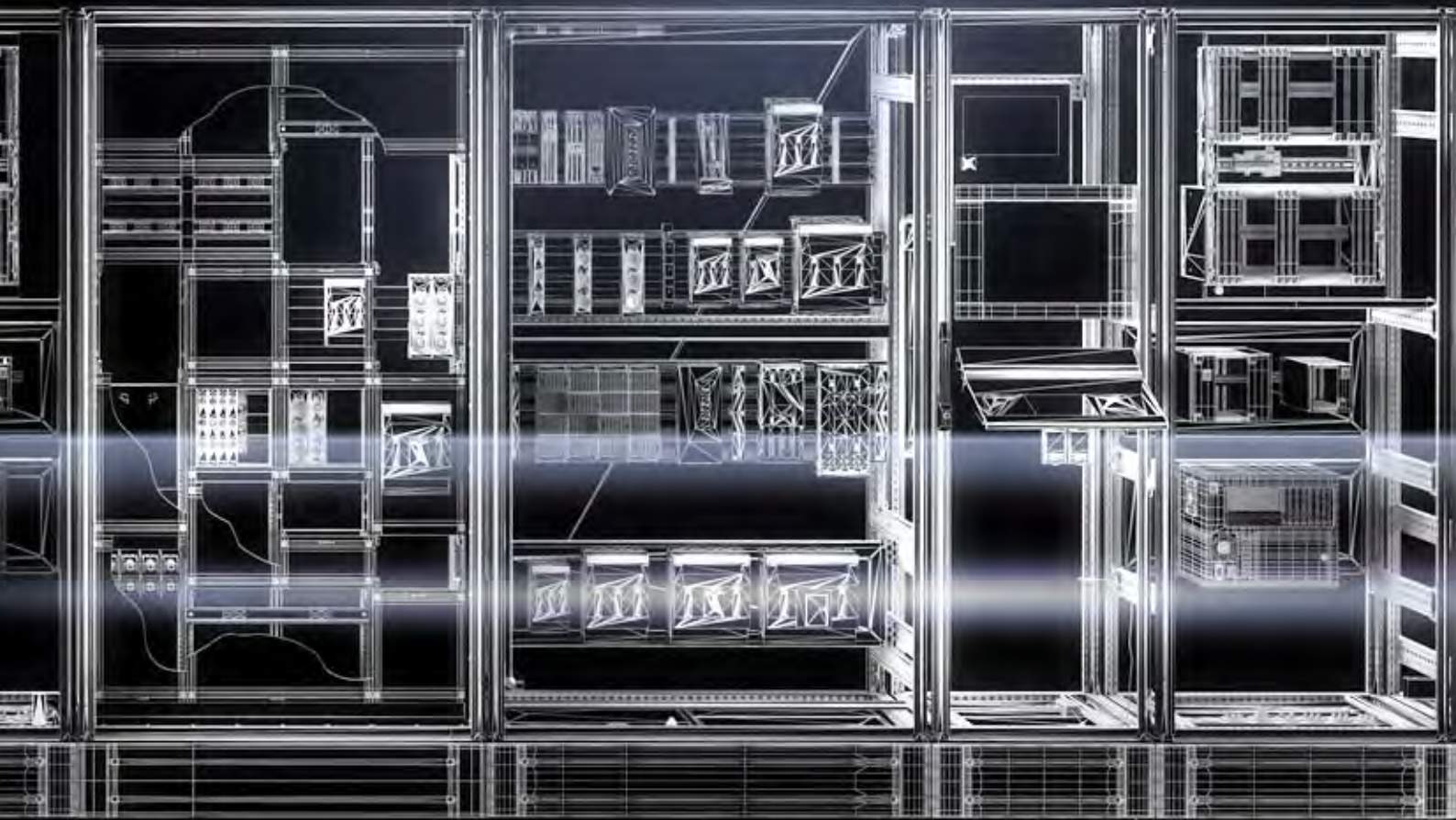
» nextlevel

The first link in the value-added chain

Eplan provides a software-based engineering solution packed with leading technology for the global market. With Eplan you can optimize your engineering landscape and accelerate your product creation process.

Eplan – efficient engineering.

- EPLAN Engineering Center
- EPLAN Electric P8
- EPLAN Data Portal
- EPLAN PPE
- EPLAN Pro Panel
- EPLAN Fluid
- EPLAN Harness proD



IT INFRASTRUCTURE

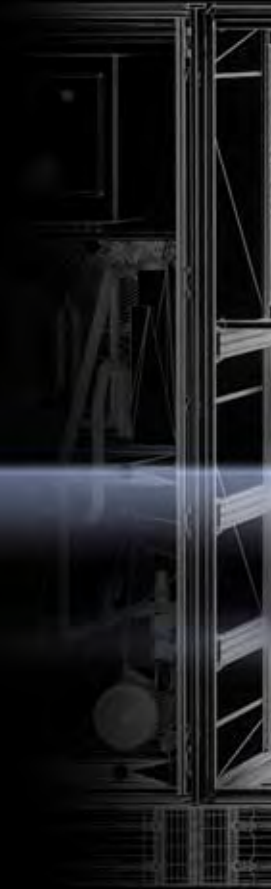
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The second link in the value-added chain

With Eplan and Rittal you benefit from comprehensive engineering solutions based on top-quality system components, part data, system know-how and design expertise all centered on “Rittal – The System.”

Rittal – The System.

- Enclosure systems
- Ri4Power power distribution to IEC 61 439
- TopTherm cooling units
- RiMatrix S – The standardized data center



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The third link in the value-added chain

Two powerful enterprises plus our machinery center of excellence surround the enclosure in an integrated solution triangle. Rittal Automation Systems provides you with modern processing machines, allowing us to automate your success in enclosure construction.

- **Perforex** – Mechanical machining of housing solutions
- **Secarex** – Cable ducts and support rails speedily cut to size
- **Athex** – Automated population of terminal strips
- **Averex** – Wiring of mounting plates



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Make  easy.

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for data centre

With RiMatrix S, Rittal is the first to provide you with a preplanned and preconfigured concept with defined efficiency and performance values for constructing completely standardized data centers.

The revolutionary alternative to individual data center construction: RiMatrix S

- Standardized data center modules
- Just one part number
- Short delivery time – delivered by truck



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Rittal Catalog 34/Enclosures

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» nextlevel

for industry

The engineering platform from Eplan is a perfect complement to the extensive range of system solutions from Rittal. This unique combination of software and product empowers Rittal customers to achieve the next level in added value.

Rittal – The System.

- Eplan – Global provider of high tech, software based engineering solutions
- Rittal – Certified enclosure systems
- Rittal Automation Systems – Automated machining of enclosures and wiring of mounting plates



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Faster – better – everywhere.

Enclosures from the smallest to the largest

- Small housings and compact enclosures
- Enclosure systems
- Console and PC enclosure systems
- Support arm systems and command panels
- Stainless steel housings and enclosure systems



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- The TS 8 top enclosure system is a proven solution with over 10 million units and counting installed in the field
- Rittal – A trusted name that produces over 15,000 enclosures per day



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Rittal Catalog 34/Enclosures

Your Benefits

As a system provider, Rittal is The global company for innovative enclosure and housing technology. Rittal satisfies the highest demands in safety, ergonomics, energy and cost-efficiency.

Faster – Software tools for efficient engineering and a large immediate delivery program

Better – Comprehensive range of system accessories for individual configuration and quick assembly

Everywhere – Complete delivery and service network around the globe



IT INFRASTRUCTURE

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Rittal – The System.

Faster – better – everywhere.



Small Housings

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PK Polycarbonate Housing



PK Accessories Page 26 System Accessories Page 421

Material:

- Housing: Fiberglass-reinforced polycarbonate
- Cover gray: Fiberglass-reinforced polycarbonate, all-round foamed PU seal
- Cover transparent: Polycarbonate, all-round foamed-in PU seal
- Cover screws: Polyamide
- Insulating bungs: Polythene

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4X

Supply includes:

- Housing with cover
- Cover screws
- Insulating bungs for wall mounting screws

Approvals:

- UL
- cUL

Technical details:

Available on the Internet

without knockouts

Height inches (mm)		2.6 (65)	2.6 (65)	3.7 (94)	3.7 (94)	4.3 (110)	4.3 (110)	Page
Width inches (mm)		2.6 (65)	3.7 (94)	3.7 (94)	3.7 (94)	4.3 (110)	4.3 (110)	
Depth inches (mm)		2.2 (57)	2.2 (57)	2.2 (57)	3.2 (81)	2.6 (66)	3.5 (90)	
Model No.		9500.000	9502.000	9504.000	9505.000	9506.000	9507.000	
Cover	Gray	Packs of	12 pc(s).	8 pc(s).	6 pc(s).	6 pc(s).	6 pc(s).	
			■	■	■	■	■	
Accessories								
Mounting plate			–	–	–	–	–	
Wall mounting brackets	1 pack(s)	9583.000	9583.000	9583.000	9583.000	9583.000	9583.000	26
Hinges			–	–	–	–	–	

without knockouts

Height inches (mm)		3.7 (94)	3.7 (94)	5.1 (130)	5.1 (130)	3.7 (94)	3.7 (94)	Page
Width inches (mm)		5.1 (130)	5.1 (130)	5.1 (130)	5.1 (130)	7.1 (180)	7.1 (180)	
Depth inches (mm)		2.2 (57)	3.2 (81)	2.9 (75)	3.9 (99)	2.2 (57)	3.2 (81)	
Model No.		9508.000	9509.000	9510.000	9511.000	9512.000	9513.000	
Cover	Gray	Packs of	4 pc(s).	4 pc(s).	4 pc(s).	4 pc(s).	2 pc(s).	
			■	■	■	■	■	
Accessories								
Mounting plate			–	–	–	–	–	
Wall mounting brackets	1 pack(s)	9583.000	9583.000	9583.000	9583.000	9583.000	9583.000	26
Hinges			–	–	–	–	–	

PK Polycarbonate Housing

without knockouts

Height inches (mm)		Packs of	4.3 (110)	4.3 (110)	4.3 (110)	4.3 (110)	4.3 (110)	4.3 (110)	Page
Width inches (mm)			7.1 (180)	7.1 (180)	7.1 (180)	7.1 (180)	7.1 (180)	7.1 (180)	
Depth inches (mm)			3.5 (90)	3.5 (90)	4.4 (111)	4.4 (111)	6.5 (165)	6.5 (165)	
Model No.		2 pc(s).	9514.000	9514.100	9515.000	9515.100	9516.000	9516.100	
Cover	Gray		■	—	■	—	■	—	
	Transparent		—	■	—	■	—	■	
Accessories									
Mounting plate			—	—	—	—	—	—	
Wall mounting brackets		1 pack(s)	9583.000	9583.000	9583.000	9583.000	9583.000	9583.000	26
Hinges		10 set(s)	9581.000	9581.000	9581.000	9581.000	9581.000	9581.000	26

without knockouts

Height inches (mm)		Packs of	7.1 (180)	7.1 (180)	7.1 (180)	7.1 (180)	7.1 (180)	7.1 (180)	Page
Width inches (mm)			7.2 (182)	7.2 (182)	7.2 (182)	7.2 (182)	7.2 (182)	7.2 (182)	
Depth inches (mm)			3.5 (90)	3.5 (90)	4.4 (111)	4.4 (111)	6.5 (165)	6.5 (165)	
Model No.		1 pc(s).	9517.000	9517.100	9518.000	9518.100	9519.000	9519.100	
Cover	Gray		■	—	■	—	■	—	
	Transparent		—	■	—	■	—	■	
Accessories									
Mounting plate		10 pc(s).	9548.000	9548.000	9548.000	9548.000	9548.000	9548.000	26
Wall mounting brackets		1 pack(s)	9583.000	9583.000	9583.000	9583.000	9583.000	9583.000	26
Hinges		10 set(s)	9581.000	9581.000	9581.000	9581.000	9581.000	9581.000	26

without knockouts

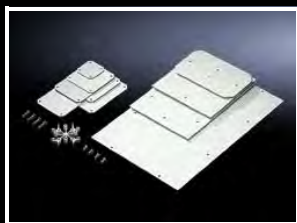
Height inches (mm)		Packs of	7.1 (180)	7.1 (180)	7.1 (180)	7.1 (180)	7.1 (180)	7.1 (180)	Page
Width inches (mm)			10.0 (254)	10.0 (254)	10.0 (254)	10.0 (254)	10.0 (254)	10.0 (254)	
Depth inches (mm)			3.5 (90)	3.5 (90)	4.4 (111)	4.4 (111)	6.5 (165)	6.5 (165)	
Model No.		1 pc(s).	9520.000	9520.100	9521.000	9521.100	9522.000	9522.100	
Cover	Gray		■	—	■	—	■	—	
	Transparent		—	■	—	■	—	■	
Accessories									
Mounting plate		8 pc(s).	9549.000	9549.000	9549.000	9549.000	9549.000	9549.000	26
Wall mounting brackets		1 pack(s)	9583.000	9583.000	9583.000	9583.000	9583.000	9583.000	26
Hinges		10 set(s)	9581.000	9581.000	9581.000	9581.000	9581.000	9581.000	26

without knockouts

Height inches (mm)		Packs of	10.0 (254)	10.0 (254)	10.0 (254)	10.0 (254)	Page
Width inches (mm)			14.2 (360)	14.2 (360)	14.2 (360)	14.2 (360)	
Depth inches (mm)			4.4 (111)	4.4 (111)	6.5 (165)	6.5 (165)	
Model No.		1 pc(s).	9523.000	9523.100	9524.000	9524.100	
Cover	Gray		■	—	■	—	
	Transparent		—	■	—	■	
Accessories							
Mounting plate		4 pc(s).	9550.000	9550.000	9550.000	9550.000	26
Wall mounting brackets		1 pack(s)	9583.000	9583.000	9583.000	9583.000	26
Hinges		10 set(s)	9581.000	9581.000	9581.000	9581.000	26

PK Polycarbonate Housing

Accessories



Mounting plate

For individual interior fitting

Material:

- 2.5 mm melamine phenol-coated laminated paper

Color:

- RAL 7035

Supply includes:

- Mounting plate
- Self-tapping assembly screws

For enclosure	Height inches (mm)	Width inches (mm)	Packs of	Model No.
9517.000/.100, 9518.000/.100, 9519.000/.100	6 (150)	6 (150)	10 pc(s).	9548.000
9520.000/.100, 9521.000/.100, 9521.050, 9522.000/.100	6 (150)	9 (220)	8 pc(s).	9549.000
9523.000/.100, 9524.000/.100	9 (220)	13 (331)	4 pc(s).	9550.000



Hinges

For hinged attachment of covers. The supplied drilling template ensures problem-free assembly.

Color:

- Similar to RAL 7035

Supply includes:

- 1 set =
- 2 hinges
- 4 assembly screws
- 4 polyethylene sealing bungs
- 1 drilling template

For enclosure	Material	Packs of	Model No.
9514.000/.100 – 9524.000/.100	Polystyrene	10 set(s)	9581.000



Wall mounting brackets

The housing can be screwed to the wall using four wall mounting brackets. The bracket is securely attached to the housing by means of pins.

Material:

- Polyamide, gray

Color:

- Similar to RAL 7035

	Packs of	Model No.
For all housings	1 pack	9583.000

Supply includes:

- 1 pack = 40 pieces



System Accessories Page 421 **KL Stainless Steel** Page 168 **KL for Potentially Explosive Areas** Page 186 **KL Hygienic Design** Page 162

Material:

- Housing: Carbon steel
- Cover: Carbon steel, all-round foamed-in PU seal

Surface finish:

- Housing and cover: Dipcoat-primed, powder-coated on the outside, textured paint

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4

Supply includes:

- Housing with cover
- Quick-release fasteners including plastic bushings

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas

Technical details:

Available on the Internet

without gland plate

Height inches (mm)	Packs of	6 (150)	6 (150)	8 (200)	6 (150)	8 (200)	8 (200)	Page
Width inches (mm)		6 (150)	8 (200)	8 (200)	12 (300)	12 (300)	16 (400)	
Depth inches (mm)		3 (80)	3 (80)	3 (80)	3 (80)	3 (80)	3 (80)	
Material thickness - ga housing (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Material thickness - ga cover (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1514.510	1528.510	1516.510	1515.510	1517.510	1518.510	
Weight lb (kg)		3 (1.4)	4 (1.6)	4 (1.9)	5 (2.1)	6 (2.6)	7 (3.2)	
Accessories								
Mounting plates	1 pc(s).	1560.700	1575.700	1562.700	1561.700	1563.700	1564.700	507
Support rails TS 35/7.5	10 pc(s).	2314.000	2315.000	2315.000	2316.000	2316.000	2317.000	530
Support rails TS 35/15		–	–	–	–	–	–	
Cover retainer	3 pair(s)	1591.000	1591.000	1591.000	1591.000	1591.000	1591.000	492
Cover hinge	6 pc(s).	1592.000	1592.000	1592.000	1592.000	1592.000	1592.000	492
Grounding kit	5 pc(s).	2570.100	2570.100	2570.100	2570.100	2570.100	2570.100	557
Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503
Spare quick-release fastener	12 pc(s).	1593.000	1593.000	1593.000	1593.000	1593.000	1593.000	

KL Junction Boxes

without gland plate

Height inches (mm)	Packs of	8 (200)	6 (150)	6 (150)	8 (200)	6 (150)	8 (200)	Page
Width inches (mm)		24 (600)	6 (150)	8 (200)	8 (200)	12 (300)	12 (300)	
Depth inches (mm)		3 (80)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	
Material thickness - ga housing (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Material thickness - ga cover (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1519.510	1500.510	1529.510	1502.510	1501.510	1503.510	
Weight lb (kg)		10 (4.6)	4 (1.6)	4 (1.8)	5 (2.3)	6 (2.6)	7 (3.0)	

Accessories

Mounting plates	1 pc(s).	1566.700	1560.700	1575.700	1562.700	1561.700	1563.700	507
Support rails TS 35/7.5	10 pc(s).	–	2314.000	2315.000	2315.000	2316.000	2316.000	530
Support rails TS 35/15	10 pc(s).	2319.000	–	–	–	–	–	530
Cover retainer	3 pair(s)	1591.000	1591.000	1591.000	1591.000	1591.000	1591.000	492
Cover hinge	6 pc(s).	1592.000	1592.000	1592.000	1592.000	1592.000	1592.000	492
Grounding kit	5 pc(s).	2570.100	2570.100	2570.100	2570.100	2570.100	2570.100	557
Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503
Spare quick-release fastener	12 pc(s).	1593.000	1593.000	1593.000	1593.000	1593.000	1593.000	

without gland plate

Height inches (mm)	Packs of	12 (300)	6 (150)	8 (200)	12 (300)	16 (400)	8 (200)	Page
Width inches (mm)		12 (300)	16 (400)	16 (400)	16 (400)	16 (400)	20 (500)	
Depth inches (mm)		5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	
Material thickness - ga housing (mm)		17 (1.38)	18 (1.25)	18 (1.25)	17 (1.38)	17 (1.38)	18 (1.25)	
Material thickness - ga cover (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1507.510	1589.510	1504.510	1508.510	1511.510	1505.510	
Weight lb (kg)		9 (4.0)	7 (3.2)	8 (3.6)	11 (4.8)	14 (6.2)	10 (4.4)	

Accessories

Mounting plates	1 pc(s).	1567.700	1576.700	1564.700	1568.700	1571.700	1565.700	507
Support rails TS 35/7.5	10 pc(s).	2316.000	2317.000	2317.000	2317.000	2317.000	–	530
Support rails TS 35/15	10 pc(s).	–	–	–	–	–	2318.000	530
Cover retainer	3 pair(s)	1591.000	1591.000	1591.000	1591.000	1591.000	1591.000	492
Cover hinge	6 pc(s).	1592.000	1592.000	1592.000	1592.000	1592.000	1592.000	492
Grounding kit	5 pc(s).	2570.100	2570.100	2570.100	2570.100	2570.100	2570.100	557
Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503
Spare quick-release fastener	12 pc(s).	1593.000	1593.000	1593.000	1593.000	1593.000	1593.000	

without gland plate

Height inches (mm)	Packs of	12 (300)	8 (200)	12 (300)	16 (400)	8 (200)	16 (400)	Page
Width inches (mm)		20 (500)	24 (600)	24 (600)	24 (600)	32 (800)	32 (800)	
Depth inches (mm)		5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	
Material thickness - ga housing (mm)		17 (1.38)	18 (1.25)	17 (1.38)	17 (1.38)	18 (1.25)	17 (1.38)	
Material thickness - ga cover (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1509.510	1506.510	1510.510	1512.510	1527.510	1513.510	
Weight lb (kg)		13 (5.8)	13 (5.7)	15 (6.8)	19 (8.4)	15 (6.8)	24 (11.0)	

Accessories

Mounting plates	1 pc(s).	1569.700	1566.700	1570.700	1572.700	1574.700	1573.700	507
Support rails TS 35/7.5		–	–	–	–	–	–	
Support rails TS 35/15	10 pc(s).	2318.000	2319.000	2319.000	2319.000	–	–	530
Cover retainer	3 pair(s)	1591.000	1591.000	1591.000	1591.000	1591.000	1591.000	492
Cover hinge	6 pc(s).	1592.000	1592.000	1592.000	1592.000	1592.000	1592.000	492
Grounding kit	5 pc(s).	2570.100	2570.100	2570.100	2570.100	2570.100	2570.100	557
Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503
Spare quick-release fastener	12 pc(s).	1593.000	1593.000	1593.000	1593.000	1593.000	1593.000	



System Accessories Page 421 **KL Stainless Steel** Page 168 **KL for Potentially Explosive Areas** Page 186 **KL Hygienic Design** Page 162

Material:

- Housing: Carbon steel
- Cover: Carbon steel, all-round foamed-in PU seal

Surface finish:

- Housing and cover: Dipcoat-primed, powder-coated on the outside, textured paint

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

Supply includes:

- Housing with cover
- Quick-release fasteners including plastic bushings
- Carbon steel flange (gland) plates with seals and assembly components

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas

Technical details:

Available on the Internet

with gland plate

Height inches (mm)	Packs of	6 (150)	8 (200)	12 (300)	8 (200)	12 (300)	16 (400)	8 (200)	Page
Width inches (mm)		12 (300)	12 (300)	12 (300)	16 (400)	16 (400)	16 (400)	20 (500)	
Depth inches (mm)		5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	
Material thickness - ga housing (mm)		18 (1.25)	18 (1.25)	17 (1.38)	18 (1.25)	17 (1.38)	17 (1.38)	18 (1.25)	
Material thickness - ga cover (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1530.510	1531.510	1535.510	1532.510	1536.510	1539.510	1533.510	
Weight lb (kg)		6 (2.7)	7 (3.3)	10 (4.5)	9 (4.0)	11 (5.2)	15 (6.7)	11 (4.9)	
Flange (gland) plate, size		2	2	2	2	2	2	2	
Flange (gland) plate (top + bottom), qty		1 + 1	1 + 1	1 + 1	1 + 1	1 + 1	1 + 1	2 + 2	
Flange (gland) plate, size		–	–	2	–	2	2	–	
Flange (gland) plate (left + right), qty		–	–	1 + 1	–	1 + 1	1 + 1	–	

Accessories

Mounting plates	1 pc(s).	1561.700	1563.700	1567.700	1564.700	1568.700	1571.700	1565.700	507
Plastic cable gland plates		see page	see page	see page	see page	see page	see page	see page	564
Support rails TS 35/7.5	10 pc(s).	2316.000	2316.000	2316.000	2316.000	2317.000	2317.000	–	530
Support rails TS 35/15	10 pc(s).	–	–	–	–	–	–	2318.000	530
Cover retainer	3 pair(s)	1591.000	1591.000	1591.000	1591.000	1591.000	1591.000	1591.000	492
Cover hinge	6 pc(s).	1592.000	1592.000	1592.000	1592.000	1592.000	1592.000	1592.000	492
Grounding kit	5 pc(s).	2570.100	2570.100	2570.100	2570.100	2570.100	2570.100	2570.100	557
Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503
Spare quick-release fastener	12 pc(s).	1593.000	1593.000	1593.000	1593.000	1593.000	1593.000	1593.000	

KL Junction Boxes

with gland plate

Height inches (mm)	Packs of	12 (300)	8 (200)	12 (300)	16 (400)	8 (200)	16 (400)	Page
Width inches (mm)		20 (500)	24 (600)	24 (600)	24 (600)	32 (800)	32 (800)	
Depth inches (mm)		5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	
Material thickness - ga housing (mm)		17 (1.38)	18 (1.25)	17 (1.38)	17 (1.38)	18 (1.25)	17 (1.38)	
Material thickness - ga cover (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1537.510	1534.510	1538.510	1540.510	1542.510	1541.510	
Weight lb (kg)		11 (5.2)	13 (5.9)	17 (7.7)	20 (9.0)	16 (7.2)	26 (12.0)	
Flange (gland) plate, size		2	2	2	2	2	2	
Flange (gland) plate (top + bottom), qty		2 + 2	2 + 2	2 + 2	2 + 2	3 + 3	3 + 3	
Flange (gland) plate, size		2	–	2	2	–	2	
Flange (gland) plate (left + right), qty		1 + 1	–	1 + 1	1 + 1	–	1 + 1	
Accessories								
Mounting plates	1 pc(s).	1569.700	1566.700	1570.700	1572.700	1574.700	1573.700	507
Plastic cable gland plates	see page	see page	see page	see page	see page	see page	see page	564
Support rails TS 35/7.5		–	–	–	–	–	–	
Support rails TS 35/15	10 pc(s).	2318.000	2319.000	2319.000	2319.000	–	–	530
Cover retainer	3 pair(s)	1591.000	1591.000	1591.000	1591.000	1591.000	1591.000	492
Cover hinge	6 pc(s).	1592.000	1592.000	1592.000	1592.000	1592.000	1592.000	492
Grounding kit	5 pc(s).	2570.100	2570.100	2570.100	2570.100	2570.100	2570.100	557
Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503
Spare quick-release fastener	12 pc(s).	1593.000	1593.000	1593.000	1593.000	1593.000	1593.000	

Accessories

Grounding kit

From page 555



System Accessories Page 421 **JB Stainless Steel** Page 169

Material:

- Housing and door: Carbon steel, all-round foamed-in PU seal

Surface finish:

- Housing and door: Dipcoat-primed, powder-coated on the outside, textured paint

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 12, 3R, 4

Approvals:

- UL/cUL
- UL File #: E170282

Supply includes:

- Housing with hinged door, door catch on left
- 180° hinge
- Screwdriver insert

Technical details:

Available on the Internet

with hinged door

Height (H) inches (mm)	Packs of	4 (100)	6 (150)	6 (150)	6 (150)	8 (200)	8 (200)	Page
Width (W) inches (mm)		4 (100)	4 (100)	4 (100)	6 (150)	6 (150)	8 (200)	
Depth (D) inches (mm)		3 (75)	3 (75)	4 (100)	4 (100)	4 (100)	4 (100)	
Material thickness - ga housing (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness ga door (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Model No.	1 pc(s).	8018.119	8018.120	8018.121	8018.098	8018.103	8018.105	
Model No. US	1 pc(s).	JB040403HC	JB060403HC	JB060404HC	JB060604HC	JB080604HC	JB080804HC	
Weight lb (kg)		2.2 (1)	2.4 (1.1)	2.9 (1.3)	3.5 (1.6)	4 (1.8)	5.1 (2.3)	

Accessories

Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503
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with hinged door

Height (H) inches (mm)	Packs of	10 (250)	12 (300)	12 (300)	8 (200)	10 (250)	10 (250)	Page
Width (W) inches (mm)		8 (200)	6 (150)	10 (250)	6 (150)	8 (200)	10 (250)	
Depth (D) inches (mm)		4 (100)	4 (100)	5 (125)	6 (150)	6 (150)	6 (150)	
Material thickness - ga housing (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness ga door (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Model No.	1 pc(s).	8018.097	8018.122	8018.099	8018.123	8018.104	8018.107	
Model No. US	1 pc(s).	JB100804HC	JB120604HC	JB121005HC	JB080606HC	JB100806HC	JB101006HC	
Weight lb (kg)		5.7 (2.6)	5.5 (2.5)	8.6 (3.9)	4.6 (2.1)	7.1 (3.2)	7.9 (3.6)	

Accessories

Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503
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JB Junction Boxes

with hinged door

Height (H) inches (mm)	Packs of	12 (300)	12 (300)	14 (350)	16 (400)	12 (300)	16 (400)	Page
Width (W) inches (mm)		10 (250)	12 (300)	12 (300)	14 (350)	10 (250)	14 (350)	
Depth (D) inches (mm)		6 (150)	6 (150)	6 (150)	6 (150)	8 (200)	8 (200)	
Material thickness - ga housing (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness ga door (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Model No.	1 pc(s).	8018.585	8018.100	8018.102	8018.101	8018.125	8018.126	
Model No. US	1 pc(s).	JB121006HC	JB121206HC	JB141206HC	JB161406HC	JB121008HC	JB161408HC	
Weight lb (kg)		7.9 (3.6)	11.2 (5.1)	11.9 (5.4)	14.6 (6.6)	11 (5.0)	16.8 (7.6)	
Accessories								
Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503

Accessories



Wall mounting bracket

See from page 503



System accessories Page 421

Material:

- Housing and door: Carbon steel, all-round foamed-in PU seal

Surface finish:

- Housing and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Mounting plate: Zinc-plated

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4

Supply includes:

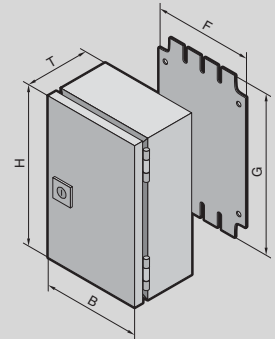
- Housing with hinged door
- 180° hinge
- Cam lock with 3 mm double-bit insert
- Mounting plate

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas

Technical details:

Available on the Internet



Depth 3" (80 mm)

Height (H) inches (mm)	Packs of	6 (150)	12 (300)	8 (200)	12 (300)	16 (400)	Page
Width (B) inches (mm)		6 (150)	6 (150)	8 (200)	8 (200)	8 (200)	
Depth (T) inches (mm)		3 (80)	3 (80)	3 (80)	3 (80)	3 (80)	
Mounting plate width (F) inches (mm)		5 (125)	5 (125)	7 (175)	7 (175)	7 (175)	
Mounting plate height (G) inches (mm)		5 (135)	11 (285)	7 (185)	11 (285)	15 (385)	
Material thickness - ga housing (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Material thickness - ga door (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1551.500	1545.500	1546.500	1552.500	1547.500	
Weight lb (kg)		4 (1.7)	6 (2.6)	6 (2.4)	7 (3.2)	10 (4.4)	

Accessories

Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	503
Pole clamp	1 set(s)	2584.000	2584.000	2584.000	2584.000	2584.000	505
Mounting clip	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	530
Support rails		see page	see page	see page	see page	see page	530
Cable glands		from page	from page	from page	from page	from page	568
Ground straps		see page	see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	from page	478

E-Box EB

Depth 5" (120 mm)

Height (H) inches (mm)	Packs of	6 (150)	8 (200)	12 (300)	8 (200)	12 (300)	16 (400)	20 (500)	12 (300)	16 (400)	Page
Width (B) inches (mm)		6 (150)	6 (150)	6 (150)	8 (200)	8 (200)	8 (200)	8 (200)	12 (300)	12 (300)	
Depth (T) inches (mm)		5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	
Mounting plate width (F) inches (mm)		5 (125)	5 (125)	5 (125)	7 (175)	7 (175)	7 (175)	7 (175)	11 (275)	11 (275)	
Mounting plate height (G) inches (mm)		5 (135)	7 (185)	11 (285)	7 (185)	11 (285)	15 (385)	19 (485)	11 (285)	15 (385)	
Material thickness - ga housing (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	17 (1.38)	17 (1.38)	
Material thickness - ga door (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1553.500	1751.500	1548.500	1549.500	1554.500	1550.500	1557.500	1555.500	1556.500	
Weight lb (kg)		4 (2.0)	5 (2.4)	7 (3.0)	6 (2.8)	8 (3.6)	11 (5.0)	13 (6.2)	11 (5.0)	14 (6.4)	
Accessories											
Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503
Pole clamp	1 set(s)	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	505
Mounting clip	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	530
Support rails		see page	see page	see page	see page	see page	see page	see page	see page	see page	530
Cable glands		from page	from page	from page	from page	from page	from page	from page	from page	from page	568
Ground straps		see page	see page	see page	see page	see page	see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	from page	from page	from page	from page	from page	478

Depth 6" (155 mm)

Height (H) inches (mm)	Packs of	10 (250)	12 (300)	14 (350)	16 (400)	24 (600)	32 (800)	16 (400)	Page
Width (B) inches (mm)		8 (200)	10 (250)	12 (300)	12 (300)	12 (300)	12 (300)	14 (350)	
Depth (T) inches (mm)		6 (155)	6 (155)	6 (155)	6 (155)	6 (155)	6 (155)	6 (155)	
Mounting plate width (F) inches (mm)		7 (175)	9 (229)	11 (275)	11 (275)	11 (275)	11 (275)	13 (325)	
Mounting plate height (G) inches (mm)		9 (235)	11 (285)	13 (335)	15 (385)	23 (585)	31 (785)	15 (385)	
Material thickness - ga housing (mm)		16 (1.5)	16 (1.5)	16 (1.5)	17 (1.38)	17 (1.38)	17 (1.38)	16 (1.5)	
Material thickness - ga door (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1752.500	1753.500	1754.500	1577.500	1578.500	1579.500	1755.500	
Weight lb (kg)		8 (3.6)	11 (5.0)	13 (5.8)	16 (7.1)	24 (11.0)	29 (13.2)	14 (6.3)	
Accessories									
Wall mounting bracket	4 pc(s).	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	1590.000	503
Pole clamp	1 set(s)	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	505
Mounting clip	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	530
Support rails		see page	see page	see page	see page	see page	see page	see page	530
Cable glands		from page	from page	from page	from page	from page	from page	from page	568
Ground straps		see page	see page	see page	see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	from page	from page	from page	478

Accessories



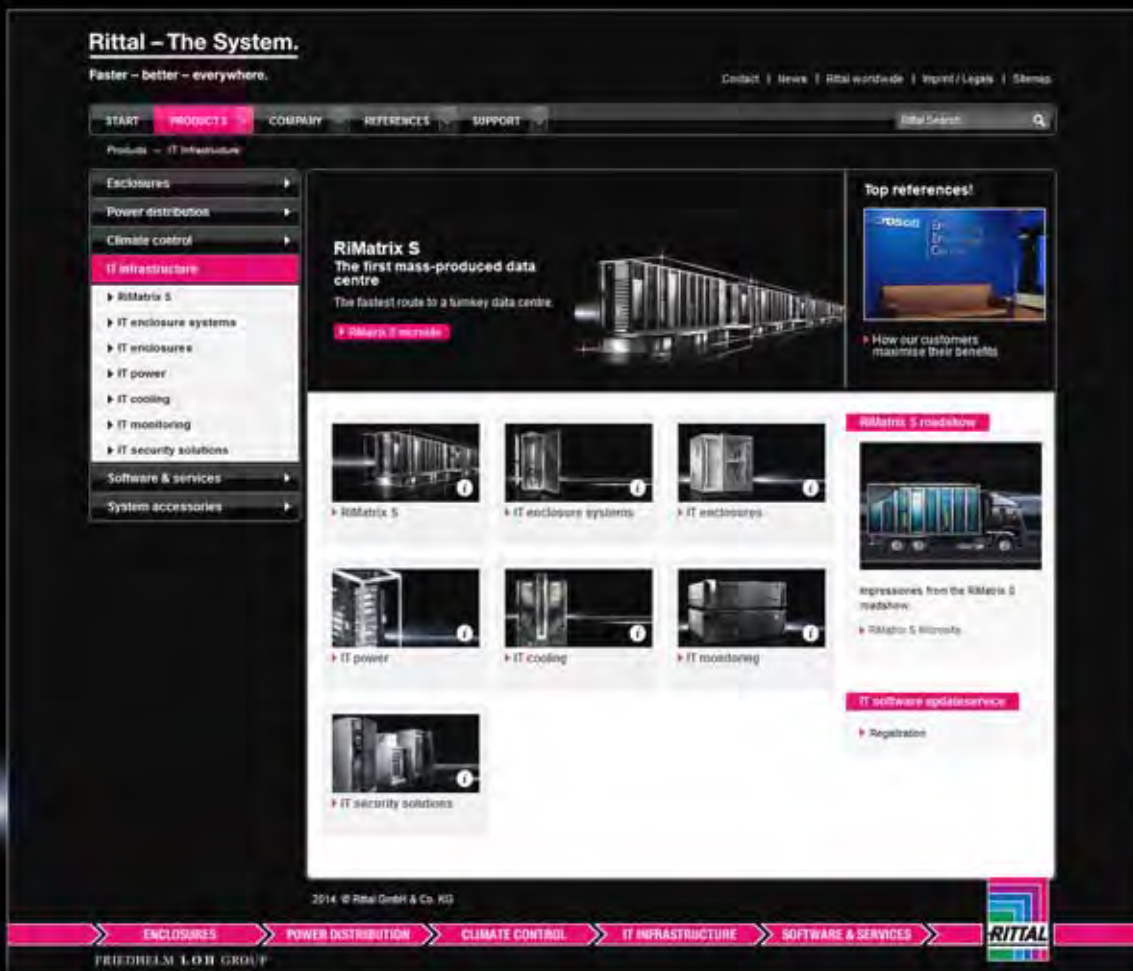
Lock systems

From page 482

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Compact Enclosures

Compact Enclosures AE

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Wall-Mounted Housing WM

Depth: 6" (150 mm), Height: 12 – 20" (300 – 500 mm).....	46
Depth: 6 – 8" (150 – 210 mm), Height: 16 – 24" (400 – 600 mm)	47
Depth: 8" (210 mm), Height: 16 – 24" (400 – 600 mm).....	47
Depth: 8" (210 mm), Height: 24 – 30" (600 – 760 mm).....	47
Depth: 8" (210 mm), Height: 36 – 47" (900 – 1200 mm).....	47
Depth: 10" (250 mm), Height: 20 – 30" (500 – 760 mm).....	48
Depth: 10" (250 mm), Height: 30 – 60" (760 – 1500 mm).....	48
Depth: 12" (300 mm), Height: 20 – 35" (500 – 900 mm).....	48
Depth: 12" (300 mm), Height: 35" (900 mm)	48
Depth: 12" (300 mm), Height: 41 – 59" (1050 – 1500 mm).....	49
Depth: 16 – 20" (400 – 500 mm), Height: 35 – 59" (900 – 1500 mm)	49
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Compact System Enclosures CM

Width 24 – 32" (600 – 800 mm).....	52
Width 39 – 47" (1000 – 1200 mm).....	53

Plastic Enclosures KS

Plastic Enclosures KS.....	54
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Compact Enclosures AE



Innovative Interior Mounting Rails

- Retrospective installation of interior equipment without mechanical machining
- Quick mounting possible on the sides, base and roof areas
- Variable with two rows of TS 8 system punchings creates a larger mounting surface
- TS 8 accessories may be used thanks to the TS 8 system punchings
- Automatic grounding
- Installation also possible after installation of mounting plate
- Mounting options for door-operated switch and door stay

Conductive Mounting Plate

- Simply one-person assembly even with upright housings by screwing in a combination bolt and self-locking nut
- Zinc-plated surface for direct contacting of assemblies and optimum EMC properties

Interchangeable Flange (Gland) Plate

- Steel plate for simple machining, supplied loose
- Automatic grounding via integrated grounding inserts
- Additional flange (gland) plates with plastic or metal for quick and easy cable entry available as an accessory



Compact Enclosures AE



Optimum Surface Protection

The three-fold surface treatment provides optimum corrosion protection.

Three phases to maximum quality:

1st phase: Nano-ceramic pretreatment

2nd phase: Electrophoretic dipcoat-priming

3rd phase: Structure powder-coating

❶ Plate with three-fold surface treatment (Rittal Standard) after a 180-hour salt spray test

❷ Plate with powder coating only after a 180-hour salt spray test

Integrated Door Perforated Strips

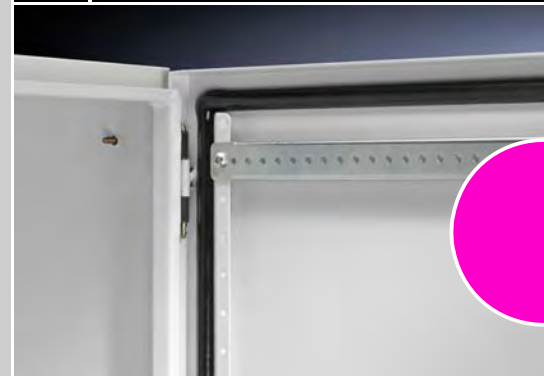
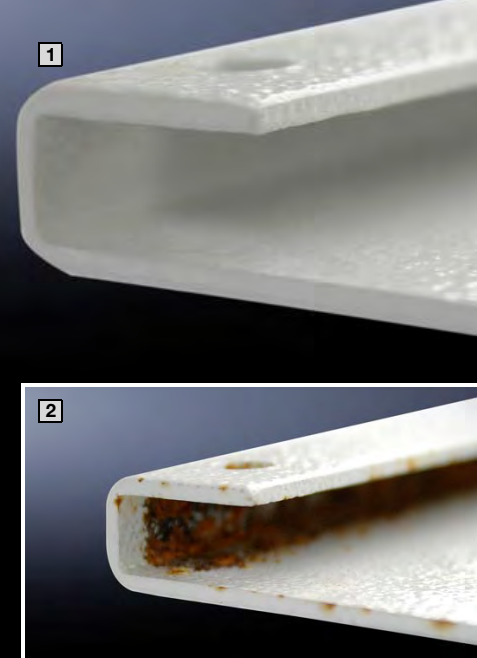
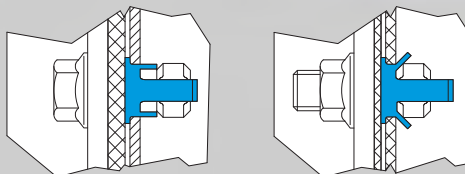
- For universal door fittings
- For safe cable entry from the door to the housing

Interchangeable Door Stay

- Door stay can be easily swapped on single-door enclosures
- No mechanical machining necessary, as the holes have already been drilled and sealed with stoppers

Practical Wall Mounting Bracket

- For quick external mounting on the housing
- Simply insert the expandable dowel into the housing hole from the outside, and screw-fasten the wall bracket from the outside. Fully kitted-out housings can thus be transported to the installation location and the wall brackets can be secured without opening the housing.



Compact Enclosures AE



System accessories Page 421 **AE stainless steel** Page 175 **Hygienic Design** Page 163

Material:

- Housing: Carbon steel
- Door: Carbon steel, all-round foamed-in PU seal

Surface finish:

- Housing and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Mounting plate: Zinc-plated

Color:

- RAL 7035

Supply includes:

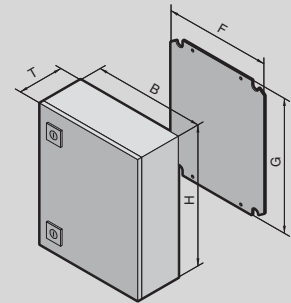
- Housing with hinged door(s), of all-round solid construction
 - Flange (gland) plate(s) in housing base
 - Mounting plate
- Please note the product-specific scope of supply.

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas

Technical details:

Available on the Internet



Height (H) inches (mm)	Packs of	12 (300)	12 (300)	12 (300)	12 (300)	16 (400)	12 (300)	Page
Width (B) inches (mm)		8 (200)	8 (200)	12 (300)	12 (300)	12 (300)	15 (380)	
Depth (T) inches (mm)		5 (120)	6 (155)	6 (155)	8 (210)	8 (210)	6 (155)	
Mounting plate width (F) inches (mm)		6 (162)	6 (162)	10 (254)	10 (254)	10 (254)	13 (334)	
Mounting plate height (G) inches (mm)		11 (275)	11 (275)	11 (275)	11 (275)	15 (375)	15 (375)	
Material thickness, housing ga (mm)		18 (1.25)	18 (1.25)	17 (1.38)	17 (1.38)	17 (1.38)	17 (1.38)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Mounting plate thickness ga (mm)		14 (2.0)	14 (2.0)	12 (2.5)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	1032.500	1035.500	1036.500	1033.500	1034.500	1030.500	
Weight lb (kg)		9 (4.0)	10 (4.5)	13 (6.1)	15 (7.0)	19 (8.8)	16 (7.4)	
Protection category IP to IEC 60 529		IP 55	IP 55	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 12	NEMA 12	NEMA 4	NEMA 4	NEMA 4	NEMA 4	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Door catch on right, may be swapped to the left		–	–	■	■	■	■	
Flange (gland) plate, size		1	1	–	–	–	3	
Flange (gland) plate, qty		1	1	1	1	1	1	
Cam lock		1	1	1	1	1	1	
Accessories								
Flange (Gland) Plates		from page	from page	from page	from page	from page	from page	564
Rails for Interior Fitting	4 pc(s).	–	–	–	2383.210	2383.210	–	521
Wall Mounting Bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Baying Kit	1 set(s)	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	466
Door Stay	5 pc(s).	–	–	2519.000	2519.000	2519.000	2519.000	497
180° Hinges	2 pc(s).	2449.000	2449.000	2449.000	2449.000	2449.000	2449.000	492
Ground Straps		see page	see page	see page	see page	see page	see page	555
LED System Light	1 pc(s).	4140.810	4140.810	4140.810	4140.810	see page	see page	548
Plastic Wiring Plan Pockets		from page	from page	from page	from page	from page	from page	496
Dust Guard Trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	500
Lock Systems		from page	from page	from page	from page	from page	from page	478

Compact Enclosures AE

Height (H) inches (mm)	Packs of	12 (300)	15 (380)	24 (600)	24 (600)	20 (500)	32 (800)	Page
Width (B) inches (mm)		15 (380)	15 (380)	15 (380)	15 (380)	16 (400)	16 (400)	
Depth (T) inches (mm)		8 (210)	8 (210)	8 (210)	14 (350)	8 (210)	12 (300)	
Mounting plate width (F) inches (mm)		13 (334)	13 (334)	13 (334)	13 (334)	14 (354)	14 (349)	
Mounting plate height (G) inches (mm)		11 (275)	14 (355)	22 (570)	22 (570)	19 (475)	30 (770)	
Material thickness, housing ga (mm)		17 (1.38)	17 (1.38)	17 (1.38)	16 (1.5)	17 (1.38)	16 (1.5)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	14 (2.0)	
Mounting plate thickness ga (mm)		14 (2.0)	14 (2.0)	12 (2.5)	12 (2.5)	14 (2.0)	11 (3.0)	
Model No.	1 pc(s).	1031.500	1380.500	1038.500	1338.500	1045.500	1037.500	
Weight lb (kg)		17 (7.5)	22 (9.8)	34 (15.6)	43 (19.4)	29 (13.0)	58 (26.2)	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Door catch on right, may be swapped to the left		■	■	■	■	■	■	
Flange (gland) plate, size		3	3	3	4	4	4	
Flange (gland) plate, qty		1	1	1	1	1	1	
Cam lock		1	1	2	2	2	2	

Accessories								
Flange (Gland) Plates		from page	from page	from page	from page	from page	from page	564
Rails for Interior Fitting	4 pc(s).	2383.210	2383.210	2383.210	2383.350	2383.210	2383.300	521
Wall Mounting Bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Baying Kit	1 set(s)	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	466
Door Stay	5 pc(s).	2519.000	2519.000	2519.000	2519.000	2519.000	2519.000	497
180° Hinges	2 pc(s).	2449.000	2449.000	2449.000	2449.000	2449.000	2449.000	492
Ground Straps		see page	see page	see page	see page	see page	see page	555
LED System Light		see page	see page	see page	see page	see page	see page	548
Plastic Wiring Plan Pockets		from page	from page	from page	from page	from page	from page	496
Dust Guard Trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	500
Lock Systems		from page	from page	from page	from page	from page	from page	478

Height (H) inches (mm)	Packs of	20 (500)	20 (500)	28 (700)	15 (380)	15 (380)	24 (600)	Page
Width (B) inches (mm)		20 (500)	20 (500)	20 (500)	24 (600)	24 (600)	24 (600)	
Depth (T) inches (mm)		8 (210)	12 (300)	10 (250)	8 (210)	14 (350)	8 (210)	
Mounting plate width (F) inches (mm)		18 (449)	18 (449)	18 (449)	22 (549)	22 (549)	22 (549)	
Mounting plate height (G) inches (mm)		19 (470)	19 (470)	26 (670)	14 (355)	14 (355)	22 (570)	
Material thickness, housing ga (mm)		17 (1.38)	16 (1.5)	16 (1.5)	17 (1.38)	16 (1.5)	17 (1.38)	
Material thickness, door ga (mm)		15 (1.75)	15 (1.75)	14 (2.0)	16 (1.5)	16 (1.5)	15 (1.75)	
Mounting plate thickness ga (mm)		12 (2.5)	12 (2.5)	12 (2.5)	12 (2.5)	12 (2.5)	12 (2.5)	
Model No.	1 pc(s).	1050.500	1350.500	1057.500	1039.500	1339.500	1060.500	
Weight lb (kg)		37 (16.8)	43 (19.6)	69 (31.2)	34 (15.4)	44 (20.0)	50 (22.8)	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Door catch on right, may be swapped to the left		■	■	■	■	■	■	
Flange (gland) plate, size		4	4	4	5	5	5	
Flange (gland) plate, qty		1	1	1	1	1	1	
Cam lock		2	2	2	1	1	2	

Accessories								
Flange (Gland) Plates		from page	from page	from page	from page	from page	from page	564
Rails for Interior Fitting	4 pc(s).	2383.210	2383.300	2383.250	2383.210	2383.350	2383.210	521
Wall Mounting Bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Baying Kit	1 set(s)	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	466
Door Stay	5 pc(s).	2519.000	2519.000	2519.000	2519.000	2519.000	2519.000	497
180° Hinges	2 pc(s).	2449.000	2449.000	2449.000	2449.000	2449.000	2449.000	492
Support Strips	20 pc(s).	2325.000	2325.000	2325.000	2326.000	2326.000	2326.000	494
Ground Straps		see page	see page	see page	see page	see page	see page	555
LED System Light		see page	see page	see page	see page	see page	see page	548
Plastic Wiring Plan Pockets		from page	from page	from page	from page	from page	from page	496
Dust Guard Trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	500
Lock Systems		from page	from page	from page	from page	from page	from page	478

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Height (H) inches (mm)	Packs of	24 (600)	24 (600)	30 (760)	30 (760)	32 (800)	39 (1000)	Page
Width (B) inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	
Depth (T) inches (mm)		10 (250)	14 (350)	8 (210)	14 (350)	10 (250)	10 (250)	
Mounting plate width (F) inches (mm)		22 (549)	22 (549)	22 (549)	22 (549)	22 (549)	21 (539)	
Mounting plate height (G) inches (mm)		22 (570)	22 (570)	29 (730)	29 (730)	30 (770)	38 (955)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	17 (1.38)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		15 (1.75)	15 (1.75)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Mounting plate thickness ga (mm)		12 (2.5)	12 (2.5)	11 (3.0)	11 (3.0)	11 (3.0)	11 (3.0)	
Model No.	1 pc(s).	1054.500	1360.500	1076.500	1376.500	1058.500	1090.500	
Weight lb (kg)		55 (24.8)	63 (28.4)	71 (32.1)	79 (36.0)	74 (33.6)	111 (50.5)	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Door catch on right, may be swapped to the left		■	■	■	■	■	■	
Flange (gland) plate, size		5	5	5	5	5	5	
Flange (gland) plate, qty		1	1	1	1	1	1	
Cam lock		2	2	2	2	2	2	

Accessories								
Flange (Gland) Plates		from page	from page	from page	from page	from page	from page	564
Rails for Interior Fitting	4 pc(s).	2383.250	2383.350	2383.210	2383.350	2383.250	2383.250	521
Wall Mounting Bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Baying Kit	1 set(s)	1199.100	1199.100	1199.100	1199.100	1199.100	–	466
Door Stay	5 pc(s).	2519.000	2519.000	2519.000	2519.000	2519.000	2519.000	497
180° Hinges	2 pc(s).	2449.000	2449.000	2449.000	2449.000	2449.000	2449.000	492
Support Strips	20 pc(s).	2326.000	2326.000	2326.000	2326.000	2326.000	2326.000	494
Ground Straps		see page	see page	see page	see page	see page	see page	555
LED System Light		see page	see page	see page	see page	see page	see page	548
Plastic Wiring Plan Pockets		from page	from page	from page	from page	from page	from page	496
Dust Guard Trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	500
Lock Systems		from page	from page	from page	from page	from page	from page	478

Height (H) inches (mm)	Packs of	47 (1200)	30 (760)	30 (760)	24 (600)	39 (1000)	47 (1200)	Page
Width (B) inches (mm)		24 (600)	30 (760)	30 (760)	32 (800)	32 (800)	32 (800)	
Depth (T) inches (mm)		12 (300)	8 (210)	12 (300)	12 (300)	12 (300)	12 (300)	
Mounting plate width (F) inches (mm)		21 (540)	28 (704)	28 (704)	29 (749)	29 (739)	29 (740)	
Mounting plate height (G) inches (mm)		45 (1155)	29 (730)	29 (730)	22 (570)	38 (955)	45 (1155)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Mounting plate thickness ga (mm)		11 (3.0)	11 (3.0)	11 (3.0)	12 (2.5)	11 (3.0)	11 (3.0)	
Model No.	1 pc(s).	1260.500	1077.500	1073.500	1055.500	1180.500	1280.500	
Weight lb (kg)		121 (55.0)	88 (40.0)	98 (44.5)	75 (33.9)	126 (57.0)	154 (70.0)	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Door catch on right, may be swapped to the left		■	■	■	■	■	■	
Flange (gland) plate, size		5	5	5	5	5	5	
Flange (gland) plate, qty		1	1	1	1	1	1	
Cam lock		–	2	2	2	2	–	
3-point locking system		■	–	–	–	–	■	

Accessories								
Flange (Gland) Plates		from page	from page	from page	from page	from page	from page	564
Rails for Interior Fitting	4 pc(s).	2383.300	2383.210	2383.300	2383.300	2383.300	2383.300	521
Wall Mounting Bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Baying Kit	1 set(s)	–	1199.100	1199.100	1199.100	–	–	466
Door Stay	5 pc(s).	2519.000	2519.000	2519.000	2519.000	2519.000	2519.000	497
180° Hinges	2 pc(s).	2449.000	2449.000	2449.000	2449.000	2449.000	2449.000	492
Support Strips	20 pc(s).	2326.000	2327.000	2327.000	2328.000	2328.000	2328.000	494
Transportation Eyebolts	4 pc(s).	2509.000	–	–	–	–	2509.000	502
Ground Straps		see page	see page	see page	see page	see page	see page	555
LED System Light		see page	see page	see page	see page	see page	see page	548
Plastic Wiring Plan Pockets		from page	from page	from page	from page	from page	from page	496
Dust Guard Trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	500
Lock Systems		from page	from page	from page	from page	from page	from page	478

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Height (H) inches (mm)	Packs of	30 (760)	30 (760)	39 (1000)	47 (1200)	55 (1400)	Page
Width (B) inches (mm)		39 (1000)	39 (1000)	39 (1000)	39 (1000)	39 (1000)	
Depth (T) inches (mm)		8 (210)	12 (300)	12 (300)	12 (300)	12 (300)	
Mounting plate width (F) inches (mm)		37 (944)	37 (944)	37 (939)	37 (940)	37 (940)	
Mounting plate height (G) inches (mm)		29 (730)	29 (730)	38 (955)	45 (1155)	53 (1355)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Mounting plate thickness ga (mm)		11 (3.0)	11 (3.0)	11 (3.0)	11 (3.0)	11 (3.0)	
Model No.	1 pc(s).	1100.500	1130.500	1110.500	1213.500	1114.500	
Weight lb (kg)		115 (52.0)	123 (56.0)	157 (71.0)	187 (85.0)	214 (97.0)	
Protection category IP to IEC 60 529		IP 55	IP 55	IP 55	IP 55	IP 55	
Protection category NEMA		NEMA 12	NEMA 12	NEMA 12	NEMA 12	NEMA 12	
Product-specific scope of supply							
Door(s)		2	2	2	2	2	
Door catch on right, may be swapped to the left		–	–	–	–	–	
Flange (gland) plate, size		4	4	4	4	4	
Flange (gland) plate, qty		2	2	2	2	2	
Cam lock		2	2	2	–	–	
3-point locking system		–	–	–	■	■	
Accessories							
Flange (Gland) Plates		from page	from page	from page	from page	from page	564
Rails for Interior Fitting	4 pc(s).	2383.210	2383.300	2383.300	2383.300	2383.300	521
Wall Mounting Bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	503
Baying Kit	1 set(s)	1199.100	1199.100	–	–	–	466
Door Stay	5 pc(s).	2519.000	2519.000	2519.000	2519.000	2519.000	497
180° Hinges	2 pc(s).	2449.000	2449.000	2449.000	2449.000	2449.000	492
Support Strips	20 pc(s).	2325.000	2325.000	2325.000	2325.000	2325.000	494
Transportation Eyebolts	4 pc(s).	–	–	–	2509.000	2509.000	502
Ground Straps		see page	see page	see page	see page	see page	555
LED System Light		see page	see page	see page	see page	see page	548
Plastic Wiring Plan Pockets		from page	from page	from page	from page	from page	496
Dust Guard Trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	500
Lock Systems		from page	from page	from page	from page	from page	478

Accessories



Rain Canopies

See page 499

Wall-Mounted Housing WM



System accessories Page 421 WM stainless steel Page 171 WM for isolator lock Page 50

Material:

- Housing: Carbon steel
- Door: Carbon steel, all-round foamed-in PU seal

Surface finish:

- Housing and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Mounting plate: Zinc-plated

Color:

- RAL 7035

Single-door housing:

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 12, 3R, 4

Approvals:

- UL
- cUL

Double-door housing:

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 1, 12

Approvals:

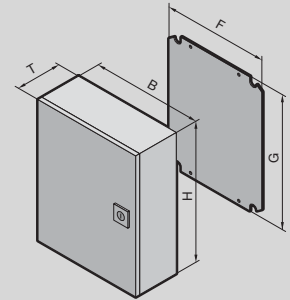
- UL
- cUL
- UL file#: E170282

Supply includes:

- Housing with hinged door(s), of all-round solid construction, door catch on the left on single-door housing
- Holes for wall mounting
- Mounting plate
- Lock: 1 slotted lock insert for a housing height up to 500 mm, 2 slotted lock inserts for a housing height up to 600 – 900 mm, 3-point locking system from housing height 1050 mm and for all double-door housing

Technical details:

Available on the Internet



Depth: 6" (150 mm), Height: 12 – 20" (300 – 500 mm)

Height (H) inches (mm)	Packs of	12 (300)	16 (400)	16 (400)	16 (400)	20 (500)	20 (500)	Page
Width (B) inches (mm)		12 (300)	12 (300)	16 (400)	20 (500)	16 (400)	20 (500)	
Depth (T) inches (mm)		6 (150)	6 (150)	6 (150)	6 (150)	6 (150)	6 (150)	
Mounting plate height (G) inches (mm)		11 (275)	15 (375)	15 (375)	15 (375)	19 (475)	19 (475)	
Mounting plate width (F) inches (mm)		10 (254)	10 (254)	14 (354)	18 (449)	14 (354)	18 (449)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Model No.	1 pc(s).	8017.528	8017.529	8017.530	8017.531	8017.532	8017.533	
Model No. US	1 pc(s).	WM121206NC	WM161206NC	WM161606NC	WM162006NC	WM201606NC	WM202006NC	
Door(s)		1	1	1	1	1	1	
Weight lb (kg)		16 (7)	20 (9)	22 (10)	27 (12)	31 (14)	37 (17)	
Accessories								
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Plastic handles	1 pc(s).	2533.000	2533.000	2533.000	2533.000	2533.000	2533.000	487

Wall-Mounted Housing WM

Depth: 6 – 8" (150 – 210 mm), Height: 16 – 24" (400 – 600 mm)

Height (H) inches (mm)	Packs of	24 (600)	24 (600)	24 (600)	16 (400)	16 (400)	Page
Width (B) inches (mm)		16 (400)	20 (500)	24 (600)	12 (300)	16 (400)	
Depth (T) inches (mm)		6 (150)	6 (150)	6 (150)	8 (210)	8 (210)	
Mounting plate height (G) inches (mm)		22 (570)	22 (570)	22 (570)	15 (375)	15 (375)	
Mounting plate width (F) inches (mm)		14 (354)	18 (449)	22 (549)	10 (254)	14 (354)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	14 (2.0)	16 (1.5)	16 (1.5)	
Model No.	1 pc(s).	8017.534	8017.535	8017.536	1034.250	1244.250	
Model No. US	1 pc(s).	WM241606NC	WM242006NC	WM242406NC	WM161208NC	WM161608NC	
Door(s)		1	1	1	1	1	
Weight lb (kg)		36 (16)	42 (19)	53 (24)	20 (9)	22 (10)	
Accessories							
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	503
Plastic handles	1 pc(s).	2533.000	2533.000	2533.000	2533.000	2533.000	487

Depth: 8" (210 mm), Height: 16 – 24" (400 – 600 mm)

Height (H) inches (mm)	Packs of	16 (400)	20 (500)	20 (500)	20 (500)	24 (600)	24 (600)	Page
Width (B) inches (mm)		20 (500)	16 (400)	20 (500)	24 (600)	16 (400)	20 (500)	
Depth (T) inches (mm)		8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	
Mounting plate height (G) inches (mm)		15 (375)	19 (475)	19 (475)	19 (475)	22 (570)	22 (570)	
Mounting plate width (F) inches (mm)		18 (449)	14 (354)	18 (449)	22 (549)	14 (354)	18 (449)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Model No.	1 pc(s).	8017.541	1045.250	1050.250	8017.544	8017.545	8017.546	
Model No. US	1 pc(s).	WM162008NC	WM201608NC	WM202008NC	WM202408NC	WM241608NC	WM242008NC	
Door(s)		1	1	1	1	1	1	
Weight lb (kg)		22 (10)	29 (13)	37 (17)	46 (21)	39 (18)	46 (21)	
Accessories								
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Plastic handles	1 pc(s).	2533.000	2533.000	2533.000	2533.000	2533.000	2533.000	487

Depth: 8" (210 mm), Height: 24 – 30" (600 – 760 mm)

Height (H) inches (mm)	Packs of	24 (600)	24 (600)	24 (600)	30 (760)	30 (760)	30 (760)	Page
Width (B) inches (mm)		24 (600)	30 (760)	41 (1050)	20 (500)	24 (600)	30 (760)	
Depth (T) inches (mm)		8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	
Mounting plate height (G) inches (mm)		22 (570)	22 (570)	22 (550)	29 (730)	29 (730)	29 (730)	
Mounting plate width (F) inches (mm)		22 (549)	28 (704)	39 (1000)	18 (449)	22 (549)	28 (704)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	1060.250	8017.549	8017.550	8017.551	1076.250	1077.250	
Model No. US	1 pc(s).	WM242408NC	WM243008NC	WM244208NC	WM302008NC	WM302408NC	WM303008NC	
Door(s)		1	1	2	1	1	1	
Weight lb (kg)		51 (23)	70 (32)	110 (50)	60 (27)	68 (31)	88 (40)	
Accessories								
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Plastic handles	1 pc(s).	2533.000	2533.000	WMLHKL	2533.000	2533.000	2533.000	487

Depth: 8" (210 mm), Height: 36 – 47" (900 – 1200 mm)

Height (H) inches (mm)	Packs of	35 (900)	35 (900)	35 (900)	41 (1050)	41 (1050)	47 (1200)	Page
Width (B) inches (mm)		24 (600)	30 (760)	35 (900)	30 (760)	35 (900)	35 (900)	
Depth (T) inches (mm)		8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	
Mounting plate height (G) inches (mm)		34 (870)	34 (870)	34 (870)	40 (1020)	40 (1020)	45 (1155)	
Mounting plate width (F) inches (mm)		22 (549)	28 (704)	33 (840)	28 (704)	33 (840)	33 (840)	
Material thickness, housing ga (mm)		16 (1.5)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8017.554	8017.555	8017.557	8017.558	8017.559	8017.560	
Model No. US	1 pc(s).	WM362408NC	WM363008NC	WM363608NC	WM423008NC	WM423608NC	WM483608NC	
Door(s)		1	1	1	1	1	1	
Weight lb (kg)		91 (41)	110 (50)	134 (61)	137 (63)	157 (71)	176 (80)	
Accessories								
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Plastic handles	1 pc(s).	2533.000	2533.000	2533.000	–	–	–	487
L-handle	1 pc(s).	–	–	–	8015.168	8015.168	8015.168	487

Wall-Mounted Housing WM

Depth: 10" (250 mm), Height: 20 – 30" (500 – 760 mm)

Height (H) inches (mm)	Packs of	20 (500)	24 (600)	24 (600)	30 (760)	30 (760)	30 (760)	Page
Width (B) inches (mm)		20 (500)	20 (500)	24 (600)	24 (600)	30 (760)	41 (1050)	
Depth (T) inches (mm)		10 (250)	10 (250)	10 (250)	10 (250)	10 (250)	10 (250)	
Mounting plate height (G) inches (mm)		19 (475)	22 (570)	22 (570)	29 (730)	29 (730)	28 (710)	
Mounting plate width (F) inches (mm)		18 (449)	18 (449)	22 (549)	22 (549)	28 (704)	39 (1000)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	14 (2.0)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8018.963	8017.561	8017.562	8017.563	8018.902	8017.564	
Model No. US	1 pc(s).	WM202010NC	WM242010NC	WM242410NC	WM302410NC	WM303010NC	WM304210NC	
Door(s)		1	1	1	1	1	2	
Weight lb (kg)		45 (20)	48 (22)	51 (23)	75 (34)	88 (40)	154 (70)	
Accessories								
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Plastic handles	1 pc(s).	2533.000	2533.000	2533.000	2533.000	2533.000	–	487
L-handle	1 pc(s).	–	–	–	–	–	–	487

Depth: 10" (250 mm), Height: 30 – 60" (760 – 1500 mm)

Height (H) inches (mm)	Packs of	30 (760)	35 (900)	35 (900)	41 (1050)	47 (1200)	59 (1500)	Page
Width (B) inches (mm)		47 (1200)	24 (600)	30 (760)	35 (900)	35 (900)	35 (900)	
Depth (T) inches (mm)		10 (250)	10 (250)	10 (250)	10 (250)	10 (250)	10 (250)	
Mounting plate height (G) inches (mm)		28 (710)	34 (870)	34 (870)	40 (1020)	45 (1155)	57 (1455)	
Mounting plate width (F) inches (mm)		45 (1150)	22 (549)	28 (704)	33 (840)	33 (840)	33 (840)	
Material thickness, housing ga (mm)		14 (2.0)	16 (1.5)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8017.565	8017.566	8017.567	8017.569	8017.570	8017.571	
Model No. US	1 pc(s).	WM304810NC	WM362410NC	WM363010NC	WM423610NC	WM483610NC	WM603610NC	
Door(s)		2	1	1	1	1	1	
Weight lb (kg)		138 (63)	85 (38)	116 (53)	162 (74)	178 (81)	189 (86)	
Accessories								
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Plastic handles	1 pc(s).	–	2533.000	2533.000	–	–	–	487
L-handle	1 pc(s).	–	–	–	8015.168	8015.168	8015.168	487

Depth: 12" (300 mm), Height: 20 – 35" (500 – 900 mm)

Height (H) inches (mm)	Packs of	20 (500)	24 (600)	24 (600)	30 (760)	30 (760)	35 (900)	Page
Width (B) inches (mm)		20 (500)	20 (500)	24 (600)	24 (600)	30 (760)	24 (600)	
Depth (T) inches (mm)		12 (300)	12 (300)	12 (300)	12 (300)	12 (300)	12 (300)	
Mounting plate height (G) inches (mm)		19 (470)	22 (570)	22 (570)	29 (730)	29 (730)	34 (870)	
Mounting plate width (F) inches (mm)		18 (449)	18 (449)	22 (549)	22 (549)	28 (704)	22 (549)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	1350.250	8017.574	8017.575	8017.576	1073.250	8017.578	
Model No. US	1 pc(s).	WM202012NC	WM242012NC	WM242412NC	WM302412NC	WM303012NC	WM362412NC	
Door(s)		1	1	1	1	1	1	
Weight lb (kg)		45 (20)	51 (23)	63 (28)	77 (35)	93 (42)	88 (40)	
Accessories								
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	2508.100	503
Plastic handles	1 pc(s).	2533.000	2533.000	2533.000	2533.000	2533.000	2533.000	487
L-handle	1 pc(s).	–	–	–	–	–	–	487

Depth: 12" (300 mm), Height: 35" (900 mm)

Height (H) inches (mm)	Packs of	35 (900)	35 (900)	35 (900)	35 (900)	35 (900)	Page
Width (B) inches (mm)		30 (760)	35 (900)	41 (1050)	47 (1200)	59 (1500)	
Depth (T) inches (mm)		12 (300)	12 (300)	12 (300)	12 (300)	12 (300)	
Mounting plate height (G) inches (mm)		34 (870)	34 (870)	33 (850)	33 (850)	33 (850)	
Mounting plate width (F) inches (mm)		28 (704)	33 (840)	39 (1000)	45 (1150)	57 (1450)	
Material thickness, housing ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8017.579	8017.581	8017.582	8017.583	8017.584	
Model No. US	1 pc(s).	WM363012NC	WM363612NC	WM364212NC	WM364812NC	WM366012NC	
Door(s)		1	1	2	2	2	
Weight lb (kg)		120 (55)	140 (64)	167 (76)	186 (85)	226 (103)	
Accessories							
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	503
Plastic handles	1 pc(s).	2533.000	2533.000	–	–	–	487
L-handle	1 pc(s).	–	–	–	–	–	487

Wall-Mounted Housing WM

Depth: 12" (300 mm), Height: 41 – 59" (1050 – 1500 mm)

Height (H) inches (mm)	Packs of	41 (1050)	41 (1050)	47 (1200)	47 (1200)	59 (1500)	Page
Width (B) inches (mm)		35 (900)	59 (1500)	35 (900)	47 (1200)	35 (900)	
Depth (T) inches (mm)		12 (300)	12 (300)	12 (300)	12 (300)	12 (300)	
Mounting plate height (G) inches (mm)		40 (1020)	39 (1000)	45 (1155)	45 (1150)	57 (1455)	
Mounting plate width (F) inches (mm)		33 (840)	57 (1450)	33 (840)	45 (1150)	33 (840)	
Material thickness, housing ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8017.586	8017.587	8017.588	8017.590	8017.591	
Model No. US	1 pc(s).	WM423612NC	WM426012NC	WM483612NC	WM484812NC	WM603612NC	
Door(s)		1	2	1	2	1	
Weight lb (kg)		169 (77)	259 (118)	180 (82)	204 (93)	200 (91)	
Accessories							
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	2508.100	503
L-handle	1 pc(s).	8015.168	8015.168	8015.168	8015.168	8015.168	487

Depth: 16 – 20" (400 – 500 mm), Height: 35 – 59" (900 – 1500 mm)

Height (H) inches (mm)	Packs of	35 (900)	47 (1200)	59 (1500)	47 (1200)	Page
Width (B) inches (mm)		30 (760)	35 (900)	35 (900)	35 (900)	
Depth (T) inches (mm)		16 (400)	16 (400)	16 (400)	20 (500)	
Mounting plate height (G) inches (mm)		34 (870)	45 (1155)	57 (1450)	45 (1155)	
Mounting plate width (F) inches (mm)		28 (704)	33 (840)	33 (840)	33 (840)	
Material thickness, housing ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8017.594	8017.595	8017.597	8017.599	
Model No. US	1 pc(s).	WM363016NC	WM483616NC	WM603616NC	WM483620NC	
Door(s)		1	1	1	1	
Weight lb (kg)		134 (61)	204 (93)	248 (112)	220 (100)	
Accessories						
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	503
Plastic handles	1 pc(s).	2533.000	–	–	–	487
L-handle	1 pc(s).	–	8015.168	8015.168	8015.168	487

New



Perforex

See page 402

Wall-Mounted Housing WM



System accessories Page 421 WM stainless steel, for isolator lock Page 173

Material:

- Housing: Carbon steel
- Door: Carbon steel, all-round foamed-in PU seal
- Mounting plate: Carbon steel

Surface finish:

- Housing and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Mounting plate: Zinc-plated

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 12, 3R, 4

Approvals:

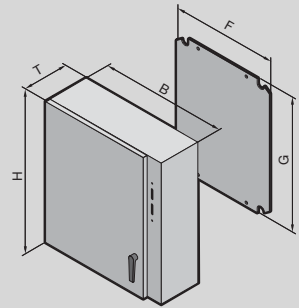
- UL
- cUL
- UL file#: E170282

Supply includes:

- Housing with hinged door(s), of all-round solid construction, door catch on the left on single-door housing
- Universal disconnect cutout
- Holes for wall mounting
- Mounting plate
- 2 or 3-point latching L-handle

Technical details:

Available on the Internet



For Isolator Lock

Height (H) inches (mm)	Packs of	24 (600)	35 (900)	35 (900)	41 (1050)	Page
Width (B) inches (mm)		26 (650)	32 (825)	32 (825)	32 (825)	
Depth (T) inches (mm)		8 (210)	10 (250)	12 (300)	12 (300)	
Mounting plate height (G) inches (mm)		22 (570)	34 (870)	34 (870)	40 (1020)	
Mounting plate width (F) inches (mm)		22 (549)	28 (704)	28 (704)	29 (730)	
Material thickness, housing ga (mm)		16 (1.5)	14 (2.0)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Mounting plate thickness ga (mm)		12 (2.5)	11 (3)	11 (3)	11 (3)	
Model No.		8017.548	8017.568	8017.580	8017.585	
Model No. US	1 pc(s).	WM242608XC	WM363210XC	WM363212XC	WM423212XC	
Locking points		2	2	2	3	
Weight lb (kg)		59 (27)	132 (60)	139 (63)	163 (74)	
Accessories						
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	503
L-handle	1 pc(s).	8015.168	8015.168	8015.168	8015.168	487

Wall-Mounted Housing WM

For Isolator Lock

Height (H) inches (mm)	Packs of	47 (1200)	59 (1500)	47 (1200)	59 (1500)	Page
Width (B) inches (mm)		38 (975)	38 (975)	38 (975)	38 (975)	
Depth (T) inches (mm)		12 (300)	12 (300)	16 (400)	16 (400)	
Mounting plate height (G) inches (mm)		45 (1155)	57 (1455)	45 (1155)	57 (1455)	
Mounting plate width (F) inches (mm)		33 (840)	33 (840)	33 (840)	33 (840)	
Material thickness, housing ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Mounting plate thickness ga (mm)		11 (3)	11 (3)	11 (3)	11 (3)	
Model No.	1 pc(s).	8017.589	8017.592	8017.596	8018.981	
Model No. US	1 pc(s).	WM483812XC	WM603812XC	WM483816XC	WM603816XC	
Locking points		3	3	3	3	
Weight lb (kg)		196 (89)	235 (107)	211 (96)	266 (121)	
Accessories						
Wall mounting bracket	4 pc(s).	2508.100	2508.100	2508.100	2508.100	503
L-handle	1 pc(s).	8015.168	8015.168	8015.168	8015.168	487



Stainless Steel

See page 167

Compact System Enclosures CM



System accessories Page 421 **System lights** Page 545 **Cable duct** Page 573 **Climate control** Page 233

Material:

- Housing: Carbon steel 1.5 mm
- Door: Carbon steel, 2.0 mm, all-round foamed-in PU seal
- Mounting plate: Carbon steel 3.0 mm

Surface finish:

- Housing and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Mounting plate: Zinc-plated

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55 with selection of the appropriate base plate or trim panel

Protection category NEMA:

- NEMA 12 with selection of the appropriate base plate or trim panel

Supply includes:

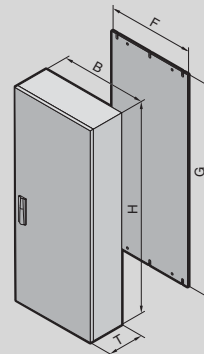
- Housing with hinged door(s)
- 3-point locking system with double-bit insert
- Mounting plate
- Open base for individual cable entry

Approvals:

- UL
- CSA
- TÜV
- Lloyds Register of Shipping

Technical details:

Available on the Internet



Width 24 – 32" (600 – 800 mm)

Height (H) inches (mm)	Packs of	32 (800)	39 (1000)	47 (1200)	39 (1000)	47 (1200)	Page
Width (B) inches (mm)		24 (600)	24 (600)	24 (600)	32 (800)	32 (800)	
Depth (T) inches (mm)		16 (400)	16 (400)	16 (400)	16 (400)	16 (400)	
Mounting plate width (F) inches (mm)		21 (540)	21 (540)	21 (540)	29 (740)	29 (740)	
Mounting plate height (G) inches (mm)		30 (755)	38 (955)	45 (1155)	38 (955)	45 (1155)	
Model No.	1 pc(s).	5110.500	5111.500	5113.500	5115.500	5117.500	
Weight lb (kg)		86 (39.0)	108 (49.0)	123 (56.0)	134 (61.0)	157 (71.0)	
Door(s)		1	1	1	1	1	
Door catch on right, may be swapped to the left		■	■	■	■	■	

Accessories

Base/Plinth		from page	from page	from page	from page	from page	424
Trim Panel	1 pc(s).	5001.130	5001.130	5001.130	5001.140	5001.140	114
Base Plates		see page	see page	see page	see page	see page	440
Rails for Interior Fitting, for Height	4 pc(s).	5001.051	5001.052	5001.053	5001.052	5001.053	521
Rails for Interior Fitting, for Width	4 pc(s).	5001.050	5001.050	5001.050	5001.051	5001.051	521
TS System Chassis 17 x 73 mm, for Depth	4 pc(s).	8612.140	8612.140	8612.140	8612.140	8612.140	522
TS System Chassis 17 x 73 mm, for Width	4 pc(s).	8612.060	8612.060	8612.060	8612.080	8612.080	522
Base Configuration Rail	2 pc(s).	5001.370	5001.370	5001.370	5001.370	5001.370	524
Support Strips	20 pc(s).	4596.000	4596.000	4596.000	4598.000	4598.000	494
Cable Clamp Rails	1 pc(s).	5001.080	5001.080	5001.080	5001.081	5001.081	574
Wiring Plan Pockets, Carbon Steel	1 pc(s).	4116.500	4116.500	4116.500	4118.500	4118.500	497
Rain Canopies, Carbon Steel	1 pc(s).	5001.310	5001.310	5001.310	5001.330	5001.330	499
Rail Systems		from page	from page	from page	from page	from page	521
Lock Systems		from page	from page	from page	from page	from page	478

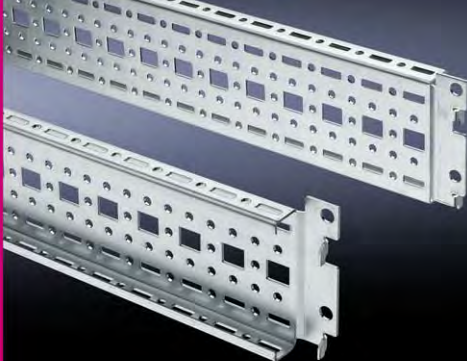
Compact System Enclosures CM

Width 39 – 47" (1000 – 1200 mm)

Height (H) inches (mm)	Packs of	47 (1200)	55 (1400)	47 (1200)	Page
Width (B) inches (mm)		39 (1000)	39 (1000)	47 (1200)	
Depth (T) inches (mm)		16 (400)	16 (400)	16 (400)	
Mounting plate width (F) inches (mm)		37 (940)	37 (940)	45 (1140)	
Mounting plate height (G) inches (mm)		45 (1155)	53 (1355)	45 (1155)	
Model No.	1 pc(s).	5120.500	5122.500	5123.500	
Weight lb (kg)		190 (86.0)	220 (100.0)	225 (102.0)	
Door(s)		2	2	2	
Door catch on right, may be swapped to the left		–	–	–	

Accessories					
Base/Plinth		from page	from page	from page	424
Trim Panel	1 pc(s).	5001.150	5001.150	5001.160	114
Base Plates		see page	see page	see page	440
Rails for Interior Fitting, for Height	4 pc(s).	5001.053	5001.054	5001.053	521
Rails for Interior Fitting, for Width	4 pc(s).	5001.052	5001.052	5001.053	521
TS System Chassis 17 x 73 mm, for Depth	4 pc(s).	8612.140	8612.140	8612.140	522
TS System Chassis 17 x 73 mm, for Width	4 pc(s).	8612.000	8612.000	8612.020	522
Base Configuration Rail	2 pc(s).	5001.370	5001.370	5001.370	524
Support Strips	20 pc(s).	4309.000	4309.000	4596.000	494
Cable Clamp Rails	1 pc(s).	5001.082	5001.082	5001.083	574
Wiring Plan Pockets, Carbon Steel	1 pc(s).	4115.500	4115.500	4116.500	497
Rain Canopies, Carbon Steel	1 pc(s).	5001.350	5001.350	5001.360	499
Rail Systems		from page	from page	from page	521
Lock Systems		from page	from page	from page	478

Accessories



TS System Chassis

See page 522

Plastic Enclosures KS



System Accessories Page 421

Material:

- Housing and door: Fiberglass-reinforced unsaturated polyester
- Door: All-round foamed-in PU seal
- Mounting plate: Carbon steel
- Viewing window: Glazed acrylic, 3.0 mm with all-round rubber cable clamp strip

Surface finish:

- Housing and door: Dyed plastic with no after-treatment
- Mounting plate: Zinc-plated

Color:

- Similar to RAL 7035

Supply includes:

- Housing with hinged door, of all-round solid construction, 3 mm double-bit lock
- Mounting plate

- Twin seal on the top and bottom edges of the door as integral rain protection strip
- Press-fitted C sections at the sides for infinitely variable mounting plate depth adjustment

Please note the product-specific scope of supply.

Note:

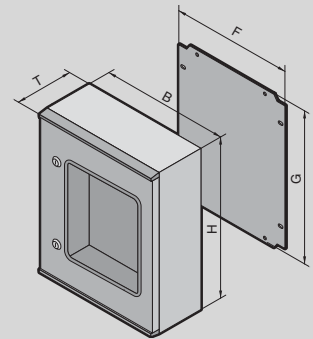
- Under the influence of long-term UV radiation (sunlight) in conjunction with wind and rain, the surface finish may become visually impaired. This does not affect the protection of the installed electrical components in any way. If the enclosures cannot be protected from UV radiation, we recommend that they should be painted with a PUR paint. Permissible ambient temperature -22...+167°F.

Approvals:

- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas

Technical details:

Available on the Internet



Height (H) inches (mm)	Packs of	12 (300)	14 (350)	16 (400)	16 (400)	16 (400)	24 (600)	24 (600)	20 (500)	Page
Width (B) inches (mm)		8 (200)	10 (250)	12 (300)	16 (400)	16 (400)	16 (400)	16 (400)	20 (500)	
Depth (T) inches (mm)		6 (150)	6 (150)	8 (200)	8 (200)	8 (200)	8 (200)	8 (200)	12 (300)	
Mounting plate width (F) inches (mm)		6 (145)	8 (195)	10 (245)	14 (345)	14 (345)	14 (345)	14 (345)	16 (417)	
Mounting plate height (G) inches (mm)		10 (250)	12 (300)	14 (350)	14 (350)	14 (350)	22 (550)	22 (550)	18 (450)	
Mounting plate thickness ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	12 (2.5)	12 (2.5)	12 (2.5)	12 (2.5)	12 (2.5)	
Model No.	1 pc(s).	1423.500	1432.500	1434.500	1444.500	1448.500	1446.500	1449.500	1453.500	
Weight lb (kg)		7 (3.4)	9 (4.3)	13 (5.9)	17 (7.9)	18 (8.0)	25 (11.5)	25 (11.2)	30 (13.5)	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 56	IP 66	IP 56	IP 66	
Protection category NEMA		NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 12	NEMA 4X	NEMA 12	NEMA 4X	
Product-specific scope of supply										
Door(s)		1	1	1	1	1	1	1	1	
Door catch on right, may be swapped to the left		■	■	■	■	■	■	■	■	
Removable center bar, lockable door on right		–	–	–	–	–	–	–	–	
Viewing window		–	–	–	–	■	–	■	–	
Cam lock		1	1	2	2	2	2	2	2	
3-point locking system		–	–	–	–	–	–	–	–	
Accessories										
Mounting Plate Depth Adjustment	4 pc(s).	1481.000	1481.000	1481.000	1481.000	1481.000	1481.000	1481.000	1491.000	510
Threaded Inserts M6	20 pc(s).	1482.000	1482.000	1482.000	1482.000	1482.000	1482.000	1482.000	1482.000	539
Pole Clamp	One set(s)	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	505
Wall Mounting Bracket	4 pc(s).	1483.010	1483.010	1483.010	1483.010	1483.010	1483.010	1483.010	1483.010	504
Lock Systems		from page	from page	from page	from page	from page	from page	from page	from page	478

Plastic Enclosures KS

Height (H) inches (mm)	Packs of	20 (500)	24 (600)	24 (600)	32 (800)	32 (800)	39 (1000)	39 (1000)	39 (1000)	Page
Width (B) inches (mm)		20 (500)	24 (600)	24 (600)	24 (600)	24 (600)	32 800	32 800	39 (1000)	
Depth (T) inches (mm)		12 (300)	8 (200)	8 (200)	12 (300)	12 (300)	12 (300)	12 (300)	12 (300)	
Mounting plate width (F) inches (mm)		16 (417)	22 (545)	22 (545)	20 (517)	20 (517)	28 (717)	28 (717)	36 (917)	
Mounting plate height (G) inches (mm)		18 (450)	22 (550)	22 (550)	30 (750)	30 (750)	37 (950)	37 (950)	37 (950)	
Mounting plate thickness ga (mm)		12 (2.5)	12 (2.5)	12 (2.5)	11 (3.0)	11 (3.0)	11 (3.0)	11 (3.0)	11 (3.0)	
Model No.	1 pc(s).	1454.500	1466.500	1467.500	1468.500	1469.500	1479.500	1480.500	1400.500	
Weight lb (kg)		30 (13.4)	35 (15.9)	34 (15.6)	58 (26.5)	57 (26.0)	88 (39.9)	92 (41.7)	114 (51.6)	
Protection category IP to IEC 60 529		IP 56	IP 66	IP 56	IP 66	IP 56	IP 56	IP 66	IP 56	
Protection category NEMA		NEMA 12	NEMA 4X	NEMA 12	NEMA 4X	NEMA 12	NEMA 12	NEMA 4X	NEMA 12	
Product-specific scope of supply										
Door(s)		1	1	1	1	1	1	1	2	
Door catch on right, may be swapped to the left		■	■	■	■	■	■	■	—	
Removable center bar, lockable door on right		—	—	—	—	—	—	—	■	
Viewing window		■	—	■	—	■	■	—	—	
Cam lock		2	2	2	—	—	—	—	—	
3-point locking system		—	—	—	■	■	■	■	■	
Accessories										
Mounting Plate Depth Adjustment	4 pc(s).	1491.000	1481.000	1481.000	1491.000	1491.000	1491.000	1491.000	1491.000	510
Threaded Inserts M6	20 pc(s).	1482.000	1482.000	1482.000	1482.000	1482.000	1482.000	1482.000	1482.000	539
Pole Clamp	One set(s)	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	505
Wall Mounting Bracket	4 pc(s).	1483.010	1483.010	1483.010	1483.010	1483.010	1483.010	1483.010	1483.010	504
Lock Systems		from page	from page	from page	from page	from page	from page	from page	from page	478

Accessories



Spare Filter Mats

See page 307

Rittal – The System.

Faster – better – everywhere.



Baying Systems TS 8

Height 47/55" (1200/1400 mm), depth 20" (500 mm)	65
Height 63" (1600 mm), depth 20" (500 mm)	66
Height 71" (1800 mm), depth 16" (400 mm)	67
Height 71" (1800 mm), depth 20" (500 mm)	68
Height 71" (1800 mm), depth 24" (600 mm)	69
Height 79" (2000 mm), depth 16" (400 mm)	70
Height 79" (2000 mm), depth 20" (500 mm)	71
Height 79" (2000 mm), depth 24" (600 mm)	72
Height 79" (2000 mm), depth 32" (800 mm)	73
Height 87" (2200 mm), depth 20" (500 mm)	74
Height 87" (2200 mm), depth 24" (600 mm)	75
Height 87" (2200 mm), depth 32" (800 mm)	76
Electronic enclosures	77
NEMA 3R	78

SE 8 System Enclosures

Width 24 – 32" (600 – 800 mm)	80
Width 39 – 71" (1000 – 1800 mm)	81
IP 66/NEMA 4	82



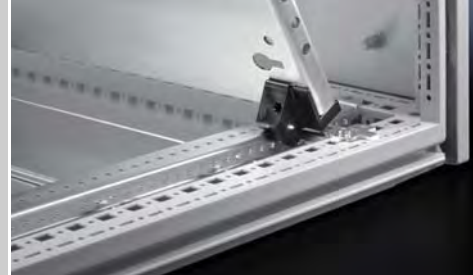
Baying Systems TS 8 SE 8 System Enclosures





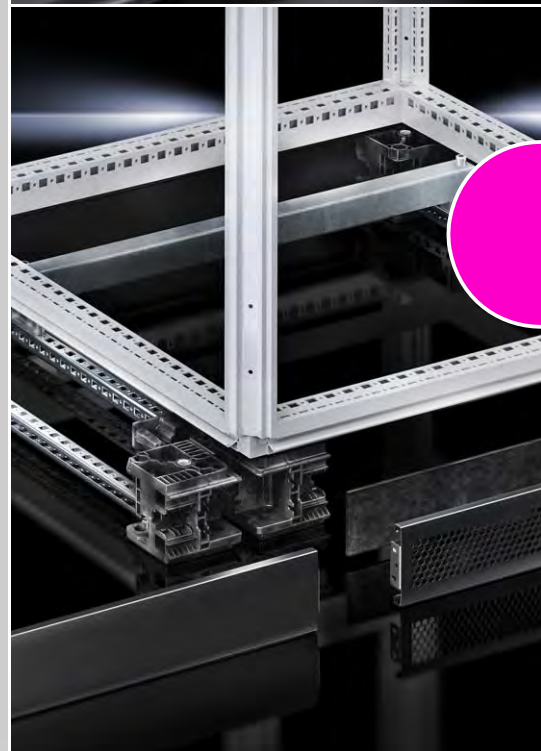
Improved mounting plate

- Simple, one-person installation
- The mounting panel moves easily on slide rails with plastic skids, slide rails can also be used for interior installation
- Mounting panel can be placed precisely where needed due to 25 mm pitch hole pattern in mounting rail



New Flex-Block base/plinth system

- Fast assembly by simply clipping together the base/plinth components
- The enclosure can be easily transported, both when empty and when fully configured, by removing the base/plinth trim panel
- Space-saving cable management in the base/plinth means more space for enclosure configuration



Comprehensive potential equalization

- All panels and base plates in standard enclosures are grounded due to conductive path between assembly components



Baying Systems TS 8



Versatile baying options

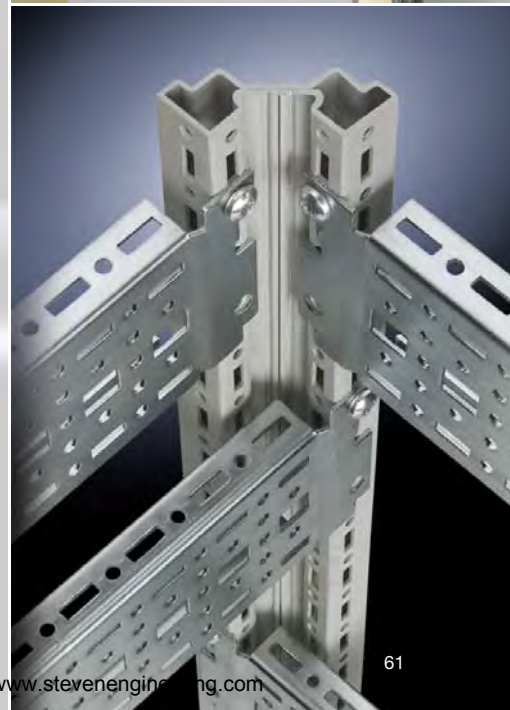
- Individual enclosures may be bayed across corners, to the front, rear, left, right and upwards – the range of baying options is limitless
- Baying connection technology enables fast assembly and stable, permanent installation
- Bayed TS 8 enclosures are able to be transported

Symmetrical frame

- Symmetrical design enables access from all sides
- Identical system accessories can be used for both width and depth in interior installations
- Hinged sidewalls allow access from all sides

Universal interior installation

- Two symmetrical levels with identical hole patterns on interior width and depth
- Interior installation with two mounting levels
- Consistent use of the outer mounting level creates an additional 15% of space utilization
- Extensive selection of system accessories that can be utilized to meet the requirements of individual interior installations



SE 8 System Enclosures



Intelligent Design

- Exceptional stability due to self supporting integral construction, roof and sides consist of a single component wrapped around an extruded frame
- Excellent environmental ratings
- Carbon steel and stainless steel versions available for virtually every area of application

Time-saving interior installation

- Identical mounting panel and compatibility with the TS 8 baying system for uniform engineering
- Extruded sidewalls save time on assembly

Unlimited installation options

- Automatic potential equalization (grounding)
- Optimum cable entry
- Compatible with the wide range of TS 8 system platform accessories
- Several base/plinth options: Flex-Block, cable chamber or standard base/plinth in carbon steel or stainless steel



Baying Systems TS 8



System accessories Page 421 Baying systems TS 8 Page 78

Material and surface finish:

- Enclosure frame: Carbon steel, 1.5 mm, dipcoat-primed
- Roof: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Door: Carbon steel, 2 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Rear wall: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Base plates: Carbon steel, 1.5 mm, zinc-plated
- Mounting plate: Carbon steel, 3 mm, zinc-plated

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

Supply includes:

- Enclosure frame with door(s)
- Roof plate
- Base plates
- Rear wall
- Mounting plate
- 4 transportation eyebolts
- Lock: 3 mm double-bit

Note:

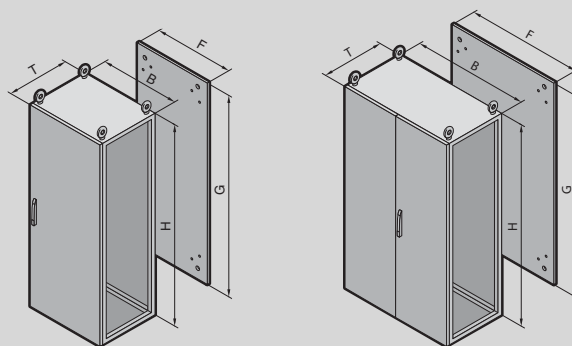
- 400 mm enclosure width version: without tubular door frame, mounting plate and base plates. Protection category IP 55 and NEMA 12 are not met

Approvals:

- UL
- CSA
- TÜV
- Norske Veritas
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas

Technical details:

Available on the Internet



Height 47/55" (1200/1400 mm), Depth 20" (500 mm)

Height (H) inches (mm)	Packs of	47 (1200)	47 (1200)	47 (1200)	55 (1400)	55 (1400)	55 (1400)	Page
Width (B) inches (mm)		24 (600)	32 (800)	47 (1200)	24 (600)	32 (800)	47 (1200)	
Depth (T) inches (mm)		20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	
Mounting plate height (G) inches (mm)		43 (1096)	43 (1096)	43 (1096)	51 (1296)	51 (1296)	51 (1296)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	43 (1099)	20 (499)	28 (699)	43 (1099)	
Model No.	1 pc(s).	8615.500	8815.500	8215.500	8645.500	8845.500	8245.500	
Door(s)		1	1	2	1	1	2	
Weight lb (kg)		164 (74.5)	203 (92.1)	308 (140.0)	190 (86.0)	237 (107.5)	361 (163.5)	
2 support strips fitted in the enclosure depth		—	—	—	—	—	—	
Accessories								
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8115.235	8115.235	8115.235	8145.235	8145.235	8145.235	450
Partition wall		—	—	—	—	—	—	
Partition wall for module plates		—	—	—	—	—	—	
Glazed door		—	—	—	—	—	—	
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.600	8100.800	8100.120	8100.600	8100.800	8100.120	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.500	8100.500	8100.500	8100.500	8100.500	8100.500	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	8200.000	8200.000	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.600	8200.800	8200.120	8200.600	8200.800	8200.120	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.500	8200.500	8200.500	8200.500	8200.500	8200.500	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.800	8601.200	8601.600	8601.800	8601.200	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.050	8601.050	8601.050	8601.050	8601.050	8601.050	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.800	8602.200	8602.600	8602.800	8602.200	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.050	8602.050	8602.050	8602.050	8602.050	8602.050	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4196.000	4191.000	4192.000	4196.000	574
C rails 30/15	6 pc(s).	4944.000	4945.000	4947.000	4944.000	4945.000	4947.000	528
Section for cable entry, rear		8802.065	8802.085	8802.125	8802.065	8802.085	8802.125	563
	Packs of	1 set(s)	1 set(s)	2 set(s)	1 set(s)	1 set(s)	2 set(s)	
Cable entry plates		8800.060	8800.080	8800.120	8800.060	8800.080	8800.120	561
	Packs of	2 pc(s).	2 pc(s).	4 pc(s).	2 pc(s).	2 pc(s).	4 pc(s).	
Snap-On Nut TS		see page	see page	see page	see page	see page	see page	533
TS Support Strips		see page	see page	see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	from page	from page	460
Carbon steel wiring plan pockets		see page	see page	see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	see page	see page	573
Mounting plate		—	—	—	—	—	—	
System lights		from page	from page	from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	from page	from page	479

Baying Systems TS 8

Height 63" (1600 mm), Depth 20" (500 mm)

Height (H) inches (mm)	Packs of	63 (1600)	63 (1600)	63 (1600)	Page
Width (B) inches (mm)		24 (600)	32 (800)	47 (1200)	
Depth (T) inches (mm)		20 (500)	20 (500)	20 (500)	
Mounting plate height (G) inches (mm)		43 (1096)	43 (1096)	43 (1096)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	43 (1099)	
Model No.	1 pc(s).	8665.500	8865.500	8265.500	
Door(s)		1	1	2	
Weight lb (kg)		220 (100.0)	227 (103.0)	351 (159.3)	
2 support strips fitted in the enclosure depth		–	–	–	

Accessories					
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8165.235	8165.235	8165.235	450
Partition wall		–	–	–	
Partition wall for module plates		–	–	–	
Glazed door		–	–	–	
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.600	8100.800	8100.120	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.500	8100.500	8100.500	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.600	8200.800	8200.120	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.500	8200.500	8200.500	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.800	8601.200	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.050	8601.050	8601.050	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.800	8602.200	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.050	8602.050	8602.050	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4196.000	574
C rails 30/15	6 pc(s).	4944.000	4945.000	4947.000	528
Section for cable entry, rear		8802.065	8802.085	8802.125	563
	Packs of	1 set(s)	1 set(s)	2 set(s)	
Cable entry plates		8800.060	8800.080	8800.120	561
	Packs of	2 pc(s).	2 pc(s).	4 pc(s).	
Snap-On Nut TS		see page	see page	see page	533
TS Support Strips		see page	see page	see page	525
Rail systems		from page	from page	from page	518
Baying systems		from page	from page	from page	460
Carbon steel wiring plan pockets		see page	see page	see page	497
180° hinges		see page	see page	see page	492
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	572
Cable duct		see page	see page	see page	573
Mounting plate		–	–	–	
System lights		from page	from page	from page	545
Ground straps		see page	see page	see page	555
Lock systems		from page	from page	from page	479

Baying Systems TS 8

Height 71" (1800 mm), Depth 16" (400 mm)

Height (H) inches (mm)	Packs of	71 (1800)	71 (1800)	71 (1800)	71 (1800)	71 (1800)	71 (1800)	Page
Width (B) inches (mm)		24 (600)	32 (800)	39 (1000)	39 (1000)	47 (1200)	63 (1600)	
Depth (T) inches (mm)		16 (400)	16 (400)	16 (400)	16 (400)	16 (400)	16 (400)	
Mounting plate height (G) inches (mm)		67 (1696)	67 (1696)	67 (1696)	67 (1696)	67 (1696)	67 (1696)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	35 (899)	35 (899)	43 (1099)	59 (1499)	
Model No.	1 pc(s).	8684.500	8884.500	8080.500	8084.500	8284.500	8901.210	
Door(s)		1	1	2	1	2	2	
Weight lb (kg)		201 (91.3)	250 (113.5)	309 (140.0)	301 (136.4)	376 (170.6)	478 (216.8)	
2 support strips fitted in the enclosure depth		–	–	–	–	–	–	
Accessories								
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8184.235	8184.235	8184.235	8184.235	8184.235	8184.235	450
Partition wall	1 pc(s).	8609.840	8609.840	8609.840	8609.840	8609.840	8609.840	454
Partition wall for module plates		–	–	–	–	–	–	
Glazed door	1 pc(s).	8610.685	8610.885	–	–	–	–	467
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.600	8100.800	8100.010	8100.010	8100.120	8100.160	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.400	8100.400	8100.400	8100.400	8100.400	8100.400	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	8200.000	–	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.600	8200.800	8200.010	8200.010	8200.120	–	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.400	8200.400	8200.400	8200.400	8200.400	–	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.800	8601.000	8601.000	8601.200	8601.920	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.040	8601.040	8601.040	8601.040	8601.040	8601.040	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.800	8602.000	8602.000	8602.200	8602.920	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.040	8602.040	8602.040	8602.040	8602.040	8602.040	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4336.000	4336.000	4196.000	4338.000	574
C rails 30/15	6 pc(s).	4944.000	4945.000	4946.000	4946.000	4947.000	–	528
Section for cable entry, rear		8802.065	8802.085	8802.105	8802.105	8802.125	8802.165	563
	Packs of	1 set(s)	1 set(s)	2 set(s)	2 set(s)	2 set(s)	2 set(s)	
Cable entry plates		8800.060	8800.080	8800.100	8800.100	8800.120	–	561
	Packs of	2 pc(s).	2 pc(s).	4 pc(s).	4 pc(s).	4 pc(s).	–	
Snap-On Nut TS		see page	see page	see page	see page	see page	see page	533
TS Support Strips	20 pc(s).	4596.000	see page	see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	from page	from page	460
Carbon steel wiring plan pockets	1 pc(s).	see page	see page	see page	4124.000	see page	see page	497
180° hinges		see page	see page	see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	see page	see page	573
Mounting plate		–	–	–	–	–	–	
System lights		from page	from page	from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	from page	from page	479

Baying Systems TS 8

Height 71" (1800 mm), Depth 20" (500 mm)

Height (H) inches (mm)	Packs of	71 (1800)	71 (1800)	71 (1800)	71 (1800)	71 (1800)	71 (1800)	71 (1800)	71 (1800)	Page
Width (B) inches (mm)		16 (400)	24 (600)	32 (800)	32 (800)	39 (1000)	47 (1200)	63 (1600)	71 (1800)	
Depth (T) inches (mm)		20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	
Mounting plate height (G) inches (mm)		–	67 (1696)	67 (1696)	67 (1696)	67 (1696)	67 (1696)	67 (1696)	67 (1696)	
Mounting plate width (F) inches (mm)		–	20 (499)	28 (699)	28 (699)	35 (899)	43 (1099)	59 (1499)	67 (1699)	
Model No.	1 pc(s).	8485.510	8685.500	8880.500	8885.500	8085.500	8285.500	8901.220	8901.260	
Door(s)		1	1	2	1	1	2	2	2	
Weight lb (kg)		108 (49.2)	207 (93.8)	270 (122.5)	255 (115.8)	328 (148.7)	382 (173.3)	485 (219.9)	546 (247.6)	
2 support strips fitted in the enclosure depth		–	–	–	–	–	–	–	–	

Accessories										
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8185.235	8185.235	8185.235	8185.235	8185.235	8185.235	8185.235	8185.235	450
Partition wall	1 pc(s).	8609.850	8609.850	8609.850	8609.850	8609.850	8609.850	8609.850	8609.850	454
Partition wall for module plates	1 pc(s).	8609.100	8609.100	8609.100	8609.100	8609.100	8609.100	8609.100	8609.100	455
Glazed door	1 pc(s).	–	8610.685	–	8610.885	–	–	–	–	467
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.400	8100.600	8100.800	8100.800	8100.010	8100.120	8100.160	8100.180	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.500	8100.500	8100.500	8100.500	8100.500	8100.500	8100.500	8100.500	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	8200.000	8200.000	–	–	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.400	8200.600	8200.800	8200.800	8200.010	8200.120	–	–	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.500	8200.500	8200.500	8200.500	8200.500	8200.500	–	–	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.400	8601.600	8601.800	8601.800	8601.000	8601.200	8601.920	8901.920	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.050	8601.050	8601.050	8601.050	8601.050	8601.050	8601.050	8601.050	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.400	8602.600	8602.800	8602.800	8602.000	8602.200	8602.920	8901.930	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.050	8602.050	8602.050	8602.050	8602.050	8602.050	8602.050	8602.050	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4193.000	4191.000	4192.000	4192.000	4336.000	4196.000	4338.000	4339.000	574
C rails 30/15	6 pc(s).	–	4944.000	4945.000	4945.000	4946.000	4947.000	–	–	528
Section for cable entry, rear		–	8802.065	8802.085	8802.085	8802.105	8802.125	8802.165	–	563
	Packs of	–	1 set(s)	1 set(s)	1 set(s)	2 set(s)	2 set(s)	2 set(s)	–	
Cable entry plates		–	8800.060	8800.080	8800.080	8800.100	8800.120	–	–	561
	Packs of	–	2 pc(s).	2 pc(s).	2 pc(s).	4 pc(s).	4 pc(s).	–	–	
Snap-On Nut TS		see page	see page	see page	see page	see page	see page	see page	see page	533
TS Support Strips		–	see page	see page	see page	see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	from page	from page	from page	from page	460
Carbon steel wiring plan pockets		–	see page	see page	see page	see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	–	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	see page	see page	see page	see page	573
Mounting plate	1 pc(s).	8614.180	–	–	–	–	–	–	–	507
System lights		from page	from page	from page	from page	from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	from page	from page	from page	from page	479

Baying Systems TS 8

Height 71" (1800 mm), Depth 24" (600 mm)

Height (H) inches (mm)	Packs of	71 (1800)	71 (1800)	71 (1800)	71 (1800)	71 (1800)	71 (1800)	Page
Width (B) inches (mm)		16 (400)	24 (600)	32 (800)	32 (800)	47 (1200)	63 (1600)	
Depth (T) inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	
Mounting plate height (G) inches (mm)		–	67 (1696)	67 (1696)	67 (1696)	67 (1696)	67 (1696)	
Mounting plate width (F) inches (mm)		–	20 (499)	28 (699)	28 (699)	43 (1099)	59 (1499)	
Model No.	1 pc(s).	8486.510	8686.500	8881.500	8886.500	8286.500	8901.230	
Door(s)		1	1	2	1	2	2	
Weight lb (kg)		114 (51.7)	213 (96.8)	277 (125.8)	265 (120.3)	397 (179.9)	502 (227.7)	
2 support strips fitted in the enclosure depth		■	■	■	■	■	■	
Accessories								
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8186.235	8186.235	8186.235	8186.235	8186.235	8186.235	450
Partition wall	1 pc(s).	8609.860	8609.860	8609.860	8609.860	8609.860	8609.860	454
Partition wall for module plates	1 pc(s).	8609.110	8609.110	8609.110	8609.110	8609.110	8609.110	455
Glazed door	1 pc(s).	–	8610.685	–	8610.885	–	–	467
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.400	8100.600	8100.800	8100.800	8100.120	8100.160	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.600	8100.600	8100.600	8100.600	8100.600	8100.600	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	8200.000	–	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.400	8200.600	8200.800	8200.800	8200.120	–	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.600	8200.600	8200.600	8200.600	8200.600	–	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.400	8601.600	8601.800	8601.800	8601.200	8601.920	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.060	8601.060	8601.060	8601.060	8601.060	8601.060	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.400	8602.600	8602.800	8602.800	8602.200	8602.920	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.060	8602.060	8602.060	8602.060	8602.060	8602.060	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4193.000	4191.000	4192.000	4192.000	4196.000	4338.000	574
C rails 30/15	6 pc(s).	–	4944.000	4945.000	4945.000	4947.000	–	528
Section for cable entry, rear		–	8802.065	8802.085	8802.085	8802.125	8802.165	563
	Packs of	–	1 set(s)	1 set(s)	1 set(s)	2 set(s)	2 set(s)	
Cable entry plates		–	8800.060	8800.080	8800.080	8800.120	–	561
	Packs of	–	2 pc(s).	2 pc(s).	2 pc(s).	4 pc(s).	–	
Snap-On Nut TS		see page	see page	see page	see page	see page	see page	533
TS Support Strips		–	see page	see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	from page	from page	460
Carbon steel wiring plan pockets		–	see page	see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	–	4583.500	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	see page	see page	573
Mounting plate	1 pc(s).	8614.180	–	–	–	–	–	507
System lights		from page	from page	from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	from page	from page	479

Baying Systems TS 8

Height 79" (2000 mm), Depth 16" (400 mm)

Height (H) inches (mm)	Packs of	79 (2000)	79 (2000)	79 (2000)	79 (2000)	Page
Width (B) inches (mm)		24 (600)	32 (800)	39 (1000)	47 (1200)	
Depth (T) inches (mm)		16 (400)	16 (400)	16 (400)	16 (400)	
Mounting plate height (G) inches (mm)		75 (1896)	75 (1896)	75 (1896)	75 (1896)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	35 (899)	43 (1099)	
Model No.	1 pc(s).	8604.500	8804.500	8004.500	8204.500	
Door(s)		1	1	2	2	
Weight lb (kg)		218 (99.0)	273 (124.0)	337 (152.8)	407 (184.5)	
2 support strips fitted in the enclosure depth		–	–	–	–	
Accessories						
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8104.235	8104.235	8104.235	8104.235	450
Partition wall	1 pc(s).	8609.040	8609.040	8609.040	8609.040	454
Partition wall for module plates		–	–	–	–	
Glazed door	1 pc(s).	8610.605	8610.805	–	–	467
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.600	8100.800	8100.010	8100.120	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.400	8100.400	8100.400	8100.400	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.600	8200.800	8200.010	8200.120	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.400	8200.400	8200.400	8200.400	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.800	8601.000	8601.200	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.040	8601.040	8601.040	8601.040	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.800	8602.000	8602.200	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.040	8602.040	8602.040	8602.040	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4336.000	4196.000	574
C rails 30/15	6 pc(s).	4944.000	4945.000	4946.000	4947.000	528
Section for cable entry, rear		8802.065	8802.085	8802.105	8802.125	563
	Packs of	1 set(s)	1 set(s)	2 set(s)	2 set(s)	
Cable entry plates		8800.060	8800.080	8800.100	8800.120	561
	Packs of	2 pc(s).	2 pc(s).	4 pc(s).	4 pc(s).	
Snap-On Nut TS		see page	see page	see page	see page	533
TS Support Strips		see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	460
Carbon steel wiring plan pockets		see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	573
Mounting plate		–	–	–	–	
System lights		from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	479

Baying Systems TS 8

Height 79" (2000 mm), Depth 20" (500 mm)

Height (H) inches (mm)	Packs of	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	Page
Width (B) inches (mm)		16 (400)	16 (400)	24 (600)	32 (800)	39 (1000)	39 (1000)	47 (1200)	63 (1600)	71 (1800)	
Depth (T) inches (mm)		20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	20 (500)	
Mounting plate height (G) inches (mm)		–	75 (1896)	75 (1896)	75 (1896)	75 (1896)	75 (1896)	75 (1896)	75 (1896)	75 (1896)	
Mounting plate width (F) inches (mm)		–	12 (299)	20 (499)	28 (699)	35 (899)	35 (899)	43 (1099)	59 (1499)	67 (1699)	
Model No.	1 pc(s).	8405.510	8405.500	8605.500	8805.500	8005.435	8005.500	8205.500	8901.290	8901.420	
Door(s)		1	1	1	1	1	2	2	2	2	
Weight lb (kg)		134 (60.7)	116 (52.6)	223 (101.3)	278 (126.3)	346 (156.9)	346 (157.1)	420 (190.6)	583 (264.4)	656 (297.5)	
2 support strips fitted in the enclosure depth		–	–	–	–	–	–	–	–	–	

Accessories											
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8105.235	8105.235	8105.235	8105.235	8105.235	8105.235	8105.235	8105.235	8105.235	450
Partition wall	1 pc(s).	8609.050	8609.050	8609.050	8609.050	8609.050	8609.050	8609.050	8609.050	8609.050	454
Partition wall for module plates	1 pc(s).	8609.120	8609.120	8609.120	8609.120	8609.120	8609.120	8609.120	8609.120	8609.120	455
Glazed door	1 pc(s).	–	–	8610.605	8610.805	–	–	–	–	–	467
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.400	8100.400	8100.600	8100.800	8100.010	8100.010	8100.120	8100.160	8100.180	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.500	8100.500	8100.500	8100.500	8100.500	8100.500	8100.500	8100.500	8100.500	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	8200.000	8200.000	8200.000	–	–	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.400	8200.400	8200.600	8200.800	8200.010	8200.010	8200.120	–	–	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.500	8200.500	8200.500	8200.500	8200.500	8200.500	8200.500	–	–	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.400	8601.400	8601.600	8601.800	8601.000	8601.000	8601.200	8601.920	8901.920	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.050	8601.050	8601.050	8601.050	8601.050	8601.050	8601.050	8601.050	8601.050	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.400	8602.400	8602.600	8602.800	8602.000	8602.000	8602.200	8602.920	8901.930	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.050	8602.050	8602.050	8602.050	8602.050	8602.050	8602.050	8602.050	8602.050	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4193.000	4193.000	4191.000	4192.000	4336.000	4336.000	4196.000	4338.000	4339.000	574
C rails 30/15	6 pc(s).	–	–	4944.000	4945.000	4946.000	4946.000	4947.000	–	–	528
Section for cable entry, rear		–	–	8802.065	8802.085	8802.105	8802.105	8802.125	8802.165	–	563
	Packs of	–	–	1 set(s)	1 set(s)	2 set(s)	2 set(s)	2 set(s)	2 set(s)	–	
Cable entry plates		–	–	8800.060	8800.080	8800.100	8800.100	8800.120	–	–	561
	Packs of	–	–	2 pc(s).	2 pc(s).	4 pc(s).	4 pc(s).	4 pc(s).	–	–	
Snap-On Nut TS		see page	see page	see page	see page	see page	see page	see page	see page	see page	533
TS Support Strips		–	–	see page	see page	see page	see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	from page	from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	from page	from page	from page	from page	from page	460
Carbon steel wiring plan pockets		–	–	see page	see page	see page	see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	see page	see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	–	–	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	see page	see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	see page	see page	see page	see page	see page	573
Mounting plate	1 pc(s).	8614.200	–	–	–	–	–	–	–	–	507
System lights		from page	from page	from page	from page	from page	from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	see page	see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	from page	from page	from page	from page	from page	479

Baying Systems TS 8

Height 79" (2000 mm), Depth 24" (600 mm)

Height (H) inches (mm)	Packs of	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	Page
Width (B) inches (mm)		16 (400)	24 (600)	32 (800)	39 (1000)	39 (1000)	47 (1200)	63 (1600)	71 (1800)	
Depth (T) inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	
Mounting plate height (G) inches (mm)		–	75 (1896)	75 (1896)	75 (1896)	75 (1896)	75 (1896)	75 (1896)	75 (1896)	
Mounting plate width (F) inches (mm)		–	20 (499)	28 (699)	35 (899)	35 (899)	43 (1099)	59 (1499)	67 (1699)	
Model No.	1 pc(s).	8406.510	8606.500	8806.500	8006.530	8006.500	8206.500	8901.400	8901.430	
Door(s)		1	1	1	1	2	2	2	2	
Weight lb (kg)		123 (55.7)	229 (104.0)	288 (130.5)	437 (198.2)	355 (161.2)	429 (194.6)	699 (317.0)	787 (356.9)	
2 support strips fitted in the enclosure depth		■	■	■	■	■	■	■		

Accessories										
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8106.235	8106.235	8106.235	8106.235	8106.235	8106.235	8106.235	8106.235	450
Partition wall	1 pc(s).	8609.060	8609.060	8609.060	8609.060	8609.060	8609.060	8609.060	8609.060	454
Partition wall for module plates	1 pc(s).	8609.130	8609.130	8609.130	8609.130	8609.130	8609.130	8609.130	8609.130	455
Glazed door	1 pc(s).	–	8610.605	8610.805	–	–	–	–	–	467
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.400	8100.600	8100.800	8100.010	8100.010	8100.120	8100.160	8100.180	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.600	8100.600	8100.600	8100.600	8100.600	8100.600	8100.600	8100.600	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	8200.000	8200.000	–	–	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.400	8200.600	8200.800	8200.010	8200.010	8200.120	–	–	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.600	8200.600	8200.600	8200.600	8200.600	8200.600	–	–	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.400	8601.600	8601.800	8601.000	8601.000	8601.200	8601.920	8901.920	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.060	8601.060	8601.060	8601.060	8601.060	8601.060	8601.060	8601.060	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.400	8602.600	8602.800	8602.000	8602.000	8602.200	8602.920	8901.930	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.060	8602.060	8602.060	8602.060	8602.060	8602.060	8602.060	8602.060	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4193.000	4191.000	4192.000	4336.000	4336.000	4196.000	4338.000	4339.000	574
C rails 30/15	6 pc(s).	–	4944.000	4945.000	4946.000	4946.000	4947.000	–	–	528
Section for cable entry, rear		–	8802.065	8802.085	8802.105	8802.105	8802.125	8802.165	–	563
	Packs of	–	1 set(s)	1 set(s)	2 set(s)	2 set(s)	2 set(s)	2 set(s)	–	
Cable entry plates		–	8800.060	8800.080	8800.100	8800.100	8800.120	–	–	561
	Packs of	–	2 pc(s).	2 pc(s).	4 pc(s).	4 pc(s).	4 pc(s).	–	–	
Snap-On Nut TS		see page	see page	see page	see page	see page	see page	see page	see page	533
TS Support Strips		–	see page	see page	see page	see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	from page	from page	from page	from page	460
Carbon steel wiring plan pockets		–	see page	see page	see page	see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	–	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	see page	see page	see page	see page	573
Mounting plate	1 pc(s).	8614.200	–	–	–	–	–	–	–	507
System lights		from page	from page	from page	from page	from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	from page	from page	from page	from page	479

Baying Systems TS 8

Height 79" (2000 mm), Depth 32" (800 mm)

Height (H) inches (mm)	Packs of	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	Page
Width (B) inches (mm)		24 (600)	32 (800)	39 (1000)	47 (1200)	63 (1600)	71 (1800)	
Depth (T) inches (mm)		32 (800)	32 (800)	32 (800)	32 (800)	32 (800)	32 (800)	
Mounting plate height (G) inches (mm)		75 (1896)	75 (1896)	75 (1896)	75 (1896)	75 (1896)	75 (1896)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	35 (899)	43 (1099)	59 (1499)	67 (1699)	
Model No.	1 pc(s).	8608.500	8808.500	8008.530	8208.500	8901.410	8901.440	
Door(s)		1	1	1	2	2	2	
Weight lb (kg)		245 (111.3)	302 (137.0)	583 (264.4)	448 (203.0)	932 (422.7)	1049 (475.8)	
2 support strips fitted in the enclosure depth		■	■	■	■	■	■	
Accessories								
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8108.235	8108.235	8108.235	8108.235	8108.235	8108.235	450
Partition wall	1 pc(s).	8609.080	8609.080	8609.080	8609.080	8609.080	8609.080	454
Partition wall for module plates		—	—	—	—	—	—	
Glazed door	1 pc(s).	8610.605	8610.805	—	—	—	—	467
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.600	8100.800	8100.010	8100.120	8100.160	8100.180	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.800	8100.800	8100.800	8100.800	8100.800	8100.800	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	—	—	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.600	8200.800	8200.010	8200.120	—	—	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.800	8200.800	8200.800	8200.800	—	—	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.800	8601.000	8601.200	8601.920	8901.920	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.080	8601.080	8601.080	8601.080	8601.080	8601.080	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.800	8602.000	8602.200	8602.920	8901.930	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.080	8602.080	8602.080	8602.080	8602.080	8602.080	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4336.000	4196.000	4338.000	4339.000	574
C rails 30/15	6 pc(s).	4944.000	4945.000	4946.000	4947.000	—	—	528
Section for cable entry, rear		8802.065	8802.085	8802.105	8802.125	8802.165	—	563
	Packs of	1 set(s)	1 set(s)	2 set(s)	2 set(s)	2 set(s)	—	
Cable entry plates		8800.060	8800.080	8800.100	8800.120	—	—	561
	Packs of	2 pc(s).	2 pc(s).	4 pc(s).	4 pc(s).	—	—	
Snap-On Nut TS		see page	see page	see page	see page	see page	see page	533
TS Support Strips		see page	see page	see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	from page	from page	460
Carbon steel wiring plan pockets		see page	see page	see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	see page	see page	573
Mounting plate		—	—	—	—	—	—	
System lights		from page	from page	from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	from page	from page	479

Baying Systems TS 8

Height 87" (2200 mm), Depth 20" (500 mm)

Height (H) inches (mm)	Packs of	87 (2200)	87 (2200)	87 (2200)	87 (2200)	Page
Width (B) inches (mm)		24 (600)	32 (800)	39 (1000)	47 (1200)	
Depth (T) inches (mm)		20 (500)	20 (500)	20 (500)	20 (500)	
Mounting plate height (G) inches (mm)		83 (2096)	83 (2096)	83 (2096)	83 (2096)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	35 (899)	43 (1099)	
Model No.	1 pc(s).	8625.500	8825.500	8025.500	8225.500	
Door(s)		1	1	1	2	
Weight lb (kg)		164 (74.7)	321 (145.6)	401 (182.3)	481 (218.1)	
2 support strips fitted in the enclosure depth		–	–	–	–	

Accessories						
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8125.235	8125.235	8125.235	8125.235	450
Partition wall	1 pc(s).	–	–	–	–	
Partition wall for module plates		–	–	–	–	
Glazed door	1 pc(s).	8610.625	8610.825	–	–	467
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.600	8100.800	8100.010	8100.120	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.500	8100.500	8100.500	8100.500	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.500	8200.000	8200.000	8200.000	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.600	8200.800	8200.010	8200.120	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.500	8200.500	8200.500	8200.500	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.800	8601.000	8601.200	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.050	8601.050	8601.050	8601.050	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.800	8602.000	8602.200	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.050	8602.050	8602.050	8602.050	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4336.000	4196.000	574
C rails 30/15	6 pc(s).	4944.000	4945.000	4946.000	4947.000	528
Section for cable entry, rear		8802.065	8802.085	8802.105	8802.125	563
	Packs of	1 set(s)	1 set(s)	2 set(s)	2 set(s)	
Cable entry plates		8800.060	8800.080	8800.100	8800.120	561
	Packs of	2 pc(s).	2 pc(s).	4 pc(s).	4 pc(s).	
Snap-On Nut TS		see page	see page	see page	see page	533
TS Support Strips		see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	460
Carbon steel wiring plan pockets		see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	573
Mounting plate		–	–	–	–	
System lights		from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	479

Height 87" (2200 mm), Depth 24" (600 mm)

Height (H) inches (mm)	Packs of	87 (2200)	87 (2200)	87 (2200)	87 (2200)	Page
Width (B) inches (mm)		24 (600)	32 (800)	39 (1000)	47 (1200)	
Depth (T) inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	
Mounting plate height (G) inches (mm)		83 (2096)	83 (2096)	83 (2096)	83 (2096)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	35 (899)	43 (1099)	
Model No.	1 pc(s).	8626.500	8826.500	8026.500	8226.500	
Door(s)		1	1	1	2	
Weight lb (kg)		249 (113.1)	307 (139.3)	345 (156.4)	459 (208.0)	
2 support strips fitted in the enclosure depth		■	■	■	■	

Accessories						
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8126.235	8126.235	8126.235	8126.235	450
Partition wall	1 pc(s).	8609.260	8609.260	8609.260	8609.260	454
Partition wall for module plates		–	–	–	–	
Glazed door	1 pc(s).	8610.625	8610.825	–	–	467
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.600	8100.800	8100.010	8100.120	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.600	8100.600	8100.600	8100.600	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.600	8200.800	8200.010	8200.120	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.600	8200.600	8200.600	8200.600	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.800	8601.000	8601.200	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.060	8601.060	8601.060	8601.060	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.800	8602.000	8602.200	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.060	8602.060	8602.060	8602.060	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4336.000	4196.000	574
C rails 30/15	6 pc(s).	4944.000	4945.000	4946.000	4947.000	528
Section for cable entry, rear		8802.065	8802.085	8802.105	8802.125	563
	Packs of	1 set(s)	1 set(s)	2 set(s)	2 set(s)	
Cable entry plates		8800.060	8800.080	8800.100	8800.120	561
	Packs of	2 pc(s).	2 pc(s).	4 pc(s).	4 pc(s).	
Snap-On Nut TS		see page	see page	see page	see page	533
TS Support Strips		see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	460
Carbon steel wiring plan pockets		see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	573
Mounting plate		–	–	–	–	
System lights		from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	479

Baying Systems TS 8

Height 87" (2200 mm), Depth 32" (800 mm)

Height (H) inches (mm)	Packs of	87 (2200)	87 (2200)	87 (2200)	87 (2200)	Page
Width (B) inches (mm)		24 (600)	32 (800)	39 (1000)	47 (1200)	
Depth (T) inches (mm)		32 (800)	32 (800)	32 (800)	32 (800)	
Mounting plate height (G) inches (mm)		83 (2096)	83 (2096)	83 (2096)	83 (2096)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	35 (899)	43 (1099)	
Model No.	1 pc(s).	8628.500	8828.500	8028.500	8228.500	
Door(s)		1	1	1	2	
Weight lb (kg)		260 (117.9)	320 (145.1)	358 (162.3)	470 (213.1)	
2 support strips fitted in the enclosure depth		■	■	■	■	
Accessories						
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8128.235	8128.235	8128.235	8128.235	450
Partition wall	1 pc(s).	–	–	–	–	454
Partition wall for module plates		–	–	–	–	
Glazed door	1 pc(s).	8610.625	8610.825	–	–	467
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.600	8100.800	8100.010	8100.120	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.800	8100.800	8100.800	8100.800	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.600	8200.800	8200.010	8200.120	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.800	8200.800	8200.800	8200.800	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.800	8601.000	8601.200	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.080	8601.080	8601.080	8601.080	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.800	8602.000	8602.200	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.080	8602.080	8602.080	8602.080	428
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4336.000	4196.000	574
C rails 30/15	6 pc(s).	4944.000	4945.000	4946.000	4947.000	528
Section for cable entry, rear		8802.065	8802.085	8802.105	8802.125	563
	Packs of	1 set(s)	1 set(s)	2 set(s)	2 set(s)	
Cable entry plates		8800.060	8800.080	8800.100	8800.120	561
	Packs of	2 pc(s).	2 pc(s).	4 pc(s).	4 pc(s).	
Snap-On Nut TS		see page	see page	see page	see page	533
TS Support Strips		see page	see page	see page	see page	525
Rail systems		from page	from page	from page	from page	518
Baying systems		from page	from page	from page	from page	460
Carbon steel wiring plan pockets		see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	492
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	4583.500	497
Ride-up roller	10 pc(s).	4538.000	4538.000	4538.000	4538.000	498
Cable duct for vertical TS section		see page	see page	see page	see page	572
Cable duct		see page	see page	see page	see page	573
Mounting plate		–	–	–	–	
System lights		from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	555
Lock systems		from page	from page	from page	from page	479



System Accessories Page 421 **19" Installation Accessories** Page 587 **19" Climate Control** Page 233

Material and surface finish:

- Enclosure frame: Carbon steel, 1.5 mm, dipcoat-primed
- Roof: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Front frame: Extruded aluminum section with die-cast zinc corner pieces, powder-coated

- Rear door: Carbon steel, 2 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Base plates: Carbon steel, 1.5 mm, zinc-plated
- Adapter sections: Aluminum

Color:

- RAL 7035

Supply includes:

- Enclosure frame
- Front frame (r/h hinge, opening angle 130°, held on the left via mechanical snap fasteners)
- Rear door (r/h hinge, may be swapped to opposite side)
- Roof
- Adapter sections, 19" (482.6 mm) mounting level
- Base plates

Approvals:

- UL
- cUL

Technical details:

Available on the Internet

Electronic enclosures

Height units U	Packs of	42	42	Page
Height inches (mm)		79 (2000)	79 (2000)	
Width inches (mm)		24 (600)	24 (600)	
Depth inches (mm)		24 (600)	32 (800)	
Model No.	1 pc(s).	8430.510	8438.510	
Door(s)		1	1	
Accessories				
Sidewalls, screw-fastened, carbon steel	2 pc(s).	8106.235	8108.235	450
Flex-Block corner pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	425
Flex-Block trim panels, 4" (100 mm), solid, for width	1 set(s)	8100.600	8100.600	425
Flex-Block trim panels, 4" (100 mm), solid, for depth	1 set(s)	8100.600	8100.800	425
Flex-Block corner pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	425
Flex-Block trim panels, 8" (200 mm), solid, for width	1 set(s)	8200.600	8200.600	425
Flex-Block trim panels, 8" (200 mm), solid, for depth	1 set(s)	8200.600	8200.800	425
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.600	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.060	8601.080	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.600	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.060	8602.080	428
Leveling feet	4 pc(s).	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4191.000	4191.000	574
C rails 30/15	6 pc(s).	4944.000	4944.000	528
Baying systems		from page	from page	460
Section for cable entry, rear	1 set(s)	8802.065	8802.065	563
Adapter sections, 19" (482.6 mm)	2 pc(s).	8613.300	8613.300	593
LED System Light	1 pc(s).	4140.830	4140.830	548
Compact light	1 pc(s).	4140.010	4140.010	547
Lock systems		from page	from page	479

Baying Systems TS 8



System accessories Page 421 TS 8 stainless steel Page 178

Material and surface finish:

- Enclosure frame: Carbon steel, 2 mm, dipcoat-primed and powder-coated
- Roof: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Door: Carbon steel, 2 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Rear wall: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint

- Base plates: Carbon steel, 1.5 mm, zinc-plated
- Mounting plate: Carbon steel, 3 mm, zinc-plated

Color:

- RAL 7035

Protection category:

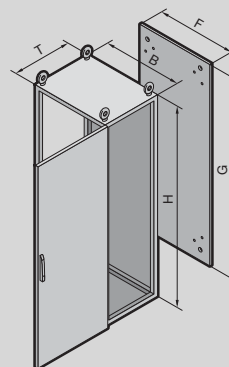
- UL/cUL Type 1, 3R, 12

Supply includes:

- Enclosure frame with door(s)
- Roof plate
- Base plates
- Rear wall
- Mounting plate
- 4 transportation eyebolts
- Lock: 3 mm double-bit

Technical details:

Available on the Internet



NEMA 3R

Height (H) inches (mm)	Packs of	79 (2000)	79 (2000)	79 (2000)	87 (2200)	Page
Width (B) inches (mm)		24 (600)	32 (800)	39 (1000)	32 (800)	
Depth (T) inches (mm)		24 (600)	24 (600)	24 (600)	32 (800)	
Mounting plate height (G) inches (mm)		75 (1896)	75 (1896)	75 (1896)	83 (2096)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	35 (899)	28 (699)	
Model No.	1 pc(s).	8606.548	8806.548	8006.548	8828.548	
Door(s)		1	1	1	1	
Weight lb (kg)		229 (104)	288 (131)	355 (161)	320 (144)	
2 support strips fitted in the enclosure depth		■	■	■	■	
Accessories						
Sidewalls, Screw-Fastened, Carbon Steel	2 pc(s).	8106.235	8106.235	8106.235	8128.235	450
Partition wall	1 pc(s).	8609.060	8609.060	8609.060	—	454
Partition wall for Module Plates	1 pc(s).	8609.130	8609.130	8609.130	—	455
Glazed Door	1 pc(s).	8610.605	8610.805	—	8610.625	467
Flex-Block Corner Pieces, 4" (100 mm)	1 set(s)	8100.000	8100.000	8100.000	8100.000	425
Flex-Block Trim Panels, 4" (100 mm), Solid, for width	1 set(s)	8100.600	8100.800	8100.010	8100.600	425
Flex-Block Trim Panels, 4" (100 mm), Solid, for depth	1 set(s)	8100.600	8100.600	8100.600	8100.800	425
Flex-Block Corner Pieces, 8" (200 mm)	1 set(s)	8200.000	8200.000	8200.000	8200.000	425
Flex-Block Trim Panels, 8" (200 mm), Solid, for width	1 set(s)	8200.600	8200.800	8200.010	8200.600	425
Flex-Block Trim Panels, 8" (200 mm), Solid, for depth	1 set(s)	8200.600	8200.600	8200.600	8200.800	425
Leveling Feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	434
Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4336.000	4191.000	574
C Rails 30/15	6 pc(s).	4944.000	4945.000	4946.000	4944.000	528
Section for Cable Entry, Rear		8802.065	8802.085	8802.105	8802.065	563
	Packs of	1 set(s)	1 set(s)	2 set(s)	1 set(s)	
Cable Entry Plates		8800.060	8800.080	8800.100	8800.060	561
	Packs of	2 pc(s).	2 pc(s).	4 pc(s).	2 pc(s).	
System Lights		from page	from page	from page	from page	545
Ground Straps		see page	see page	see page	see page	555
Lock Systems		from page	from page	from page	from page	478

TS 8 Floormount Enclosure



System accessories Page 421 TS 8 floormount enclosure IP 66/NEMA 4X Page 178

Material and surface finish:

- Enclosure frame: Carbon steel, 1.5 mm, dipcoat-primed
- Roof: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Door: Carbon steel, 2 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Rear wall: Carbon steel, 2 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Sidewalls: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Base plate: Carbon steel, 1.5 mm, zinc-plated
- Mounting plate: Carbon steel, 3 mm, zinc-plated
- Pedestals: Carbon steel, 3 mm, dipcoat-primed, powder-coated on the outside, textured paint

Color:

- RAL 7035

Protection category:

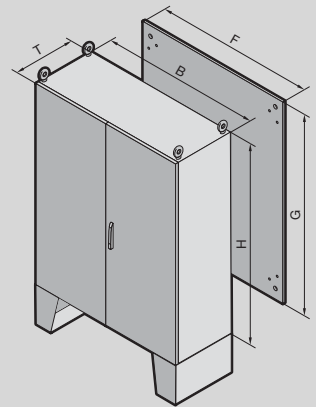
- UL/cUL Type 12 (IP 55 to IEC 60 529)
- UL file #: E76083

Supply includes:

- Enclosure frame with door(s)
- Roof plate
- Base plate, one-piece
- Rear wall
- Sidewalls
- Mounting plate
- Pedestals 300 mm, screw-fastening kit
- 4 transportation eyebolts
- Lock: Comfort handle with padlock and push-button insert, lockable, incl. key

Technical details:

Available on the Internet



Height: 63" (1600 mm), depth: 12 – 16" (300 – 400 mm)

Height (H) inches (mm)	Packs of	63 (1600)	63 (1600)	63 (1600)	Page
Width (B) inches (mm)		47 (1200)	47 (1200)	63 (1600)	
Depth (T) inches (mm)		12 (300)	16 (400)	16 (400)	
Mounting plate height (G) inches (mm)		59 (1496)	59 (1496)	59 (1496)	
Mounting plate width (F) inches (mm)		43 (1099)	43 (1099)	59 (1499)	
Model No.	1 pc(s).	8018.795	8018.799	8018.800	
Model No. US		TSFM634712NC	TSFM634716NC	TSFM636316NC	
Weight lb (kg)		352 (160)	359 (163)	459 (209)	
Accessories					
Cable Clamp Rails	2 pc(s).	4196.000	4196.000	4338.000	574
TS Support Strips	1 pc(s).	4596.000	4596.000	4598.000	525
Wiring Plan Pockets, Carbon Steel	1 pc(s).	4116.000	4116.000	4118.000	497
Lock Systems		from page	from page	from page	478

SE 8 System Enclosures



System Accessories Page 421 SE 8 Stainless Steel Page 179

The system enclosure is based on the TS 8 platform. Fully compatible with TS 8 system accessories for interior installation.

Material and surface finish:

- Housing: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Door: Carbon steel, 2 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Rear wall: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint

- Mounting plate: Carbon steel, 3 mm, zinc-plated
- Base plates: Carbon steel, 1.5 mm, zinc-plated

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

Supply includes:

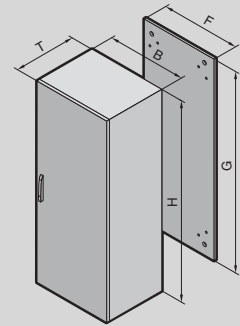
- Housing, solid top and sides
- Door(s)
- Right-hand door catch on single-door enclosures may be swapped to the left
- Mounting plate
- Base plates
- Rear wall, detachable
- Lock: 3 mm double-bit

Approvals:

- UL
- cUL

Technical details:

Available on the Internet



Width 24 – 32" (600 – 800 mm)

Height (H) inches (mm)	Packs of	71 (1800)	71 (1800)	79 (2000)	79 (2000)	79 (2000)	Page
Width (B) inches (mm)		24 (600)	32 (800)	32 (800)	32 (800)	32 (800)	
Depth (T) inches (mm)		16 (400)	16 (400)	16 (400)	20 (500)	24 (600)	
Mounting plate height (G) inches (mm)		67 (1696)	67 (1696)	75 (1896)	75 (1896)	75 (1896)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	28 (699)	28 (699)	28 (699)	
Model No.	1 pc(s).	5830.500	5831.500	5832.500	5833.500	5834.500	
Door(s)		1	1	1	1	1	
	Rear wall, one-piece	■	■	■	■	■	
Weight lb (kg)		218 (99.0)	260 (118.0)	289 (131.0)	295 (134.0)	313 (142.0)	

Accessories

Base/Plinth		from page	from page	from page	from page	from page	424
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	4612.000	434
Transportation eyebolts	4 pc(s).	4568.000	4568.000	4568.000	4568.000	4568.000	502
Rail systems		from page	from page	from page	from page	from page	518
TS system chassis, 23 x 73 mm	4 pc(s).	8612.560	8612.580	8612.580	8612.550	8612.560	523
Cable entry plates	2 pc(s).	8800.060	8800.080	8800.080	8800.080	8800.080	561
Section for cable entry, rear	1 set(s)	8802.065	8802.085	8802.085	8802.085	8802.085	563
Cable clamp rails	2 pc(s).	4191.000	4192.000	4192.000	4192.000	4192.000	574
C rails 30/15	6 pc(s).	4944.000	4945.000	4945.000	4945.000	4945.000	528
Carbon steel wiring plan pockets		see page	see page	see page	see page	see page	497
180° hinges		see page	see page	see page	see page	see page	492
System lights		from page	from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	see page	555
TS punched section without mounting flange, 45 x 88 mm	2 pc(s).	8612.660	8612.680	8612.680	see page	see page	523
TS punched rail, 25 x 38 mm	2 pc(s).	8612.760	8612.780	8612.780	see page	see page	524
TS punched rail, 18 x 38 mm		see page	see page	see page	see page	see page	525
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	4583.500	4583.500	497
Lock systems		from page	from page	from page	from page	from page	479

SE 8 System Enclosures

Width 39 – 71" (1000 – 1800 mm)

Height (H) inches (mm)	Packs of	71 (1800)	71 (1800)	79 (2000)	79 (2000)	79 (2000)	71 (1800)	79 (2000)	Page
Width (B) inches (mm)		39 (1000)	47 (1200)	47 (1200)	47 (1200)	47 (1200)	63 (1600)	71 (1800)	
Depth (T) inches (mm)		16 (400)	16 (400)	16 (400)	20 (500)	24 (600)	16 (400)	20 (500)	
Mounting plate height (G) inches (mm)		67 (1696)	67 (1696)	75 (1896)	75 (1896)	75 (1896)	67 (1696)	75 (1896)	
Mounting plate width (F) inches (mm)		35 (899)	43 (1099)	43 (1099)	43 (1099)	43 (1099)	59 (1499)	67 (1699)	
Model No.	1 pc(s).	5840.500	5841.500	5843.500	5844.500	5845.500	5842.500	5846.500	
Door(s)		2	2	2	2	2	2	2	
	Rear wall, one-piece	■	■	■	■	■	–	–	
	Rear wall, two-piece	–	–	–	–	–	■	■	
Weight lb (kg)		320 (145.0)	386 (175.0)	425 (193.0)	430 (195.0)	463 (210.0)	489 (222.0)	602 (273.0)	

Accessories									
Base/Plinth		from page	from page	from page	from page	from page	from page	from page	424
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	434
Transportation eyebolts	4 pc(s).	4568.000	4568.000	4568.000	4568.000	4568.000	4568.000	4568.000	502
Rail systems		from page	from page	from page	from page	from page	from page	from page	518
TS system chassis, 23 x 73 mm	4 pc(s).	8612.500	8612.520	8612.520	see page	see page	–	8612.550	523
Cable entry plates	4 pc(s).	8800.100	8800.120	8800.120	8800.120	8800.120	–	–	561
Section for cable entry, rear	2 set(s)	8802.105	8802.125	8802.125	8802.125	8802.125	8802.165	–	563
Cable clamp rails	2 pc(s).	4336.000	4196.000	4196.000	4196.000	4196.000	4338.000	4339.000	574
C rails 30/15	6 pc(s).	4946.000	4947.000	4947.000	4947.000	4947.000	–	–	528
Carbon steel wiring plan pockets	1 pc(s).	see page	see page	see page	see page	see page	see page	4123.000	497
180° hinges		see page	see page	see page	see page	see page	see page	see page	492
System lights		from page	from page	from page	from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	see page	see page	see page	555
TS punched section without mounting flange, 45 x 88 mm	2 pc(s).	–	–	–	8612.650	8612.660	–	8612.650	523
TS punched rail, 25 x 38 mm	2 pc(s).	–	–	–	8612.750	8612.760	–	8612.750	524
TS punched rail, 18 x 38 mm	4 pc(s).	8612.240	8612.240	8612.240	8612.250	8612.260	8612.240	8612.250	525
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	4583.500	497
Lock systems		from page	from page	from page	from page	from page	from page	from page	479

New



Perforex

See page 402

SE 8 System Enclosures



System Accessories Page 421 SE 8 Stainless Steel Page 179

The system enclosure is based on the TS 8 platform. Fully compatible with TS 8 system accessories for interior installation.

Material and surface finish:

- Housing: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Door: Carbon steel, 2 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Rear wall: Carbon steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint

- Mounting plate: Carbon steel, 3 mm, zinc-plated
- Base: Carbon steel, 1.5 mm, dipcoat-primed and powder-coated, textured paint

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4

Supply includes:

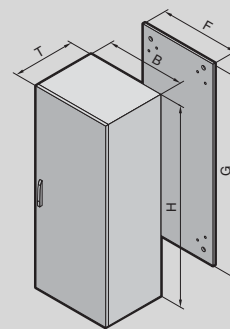
- Housing, solid top and sides
- Door(s)
- Door catch on right, may be swapped to the left
- Mounting plate
- Base, solid
- Rear wall
- Lock: 3 mm double-bit

Approvals:

- UL
- cUL

Technical details:

Available on the Internet



IP 66/NEMA 4

Height (H) inches (mm)	Packs of	71 (1800)	71 (1800)	79 (2000)	Page
Width (B) inches (mm)		24 (600)	32 (800)	32 (800)	
Depth (T) inches (mm)		16 (400)	16 (400)	24 (600)	
Mounting plate height (G) inches (mm)		67 (1696)	67 (1696)	75 (1896)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	28 (699)	
Model No.	1 pc(s).	5830.580	5831.580	5834.580	
Door(s)		1	1	1	
Accessories					
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.800	8601.800	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.040	8601.040	8601.060	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.800	8602.800	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.040	8602.040	8602.060	428
Transportation eyebolts	4 pc(s).	4568.000	4568.000	4568.000	502
Rail systems		from page	from page	from page	518
TS system chassis, 23 x 73 mm	4 pc(s).	8612.560	8612.580	see page	523
Cable clamp rails	2 pc(s).	4191.000	4192.000	4192.000	574
C rails 30/15	6 pc(s).	4944.000	4945.000	see page	528
Carbon steel wiring plan pockets		see page	see page	see page	497
180° hinges		see page	see page	see page	492
System lights		from page	from page	from page	545
Ground straps		see page	see page	see page	555
TS punched section without mounting flange, 45 x 88 mm	2 pc(s).	8612.660	8612.680	see page	523
TS punched rail, 25 x 38 mm	2 pc(s).	8612.760	8612.780	see page	524
TS punched rail, 18 x 38 mm		see page	see page	see page	525
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	497
Lock systems		from page	from page	from page	479

Rittal – The System.

Faster – better – everywhere.

TS Isolator Door Cover features simple, one person assembly



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES



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TS IT Network/Server Enclosures

TS IT with Vented Door for Room Climate Control	90
TS IT with Glazed Door for Rack Climate Control	92

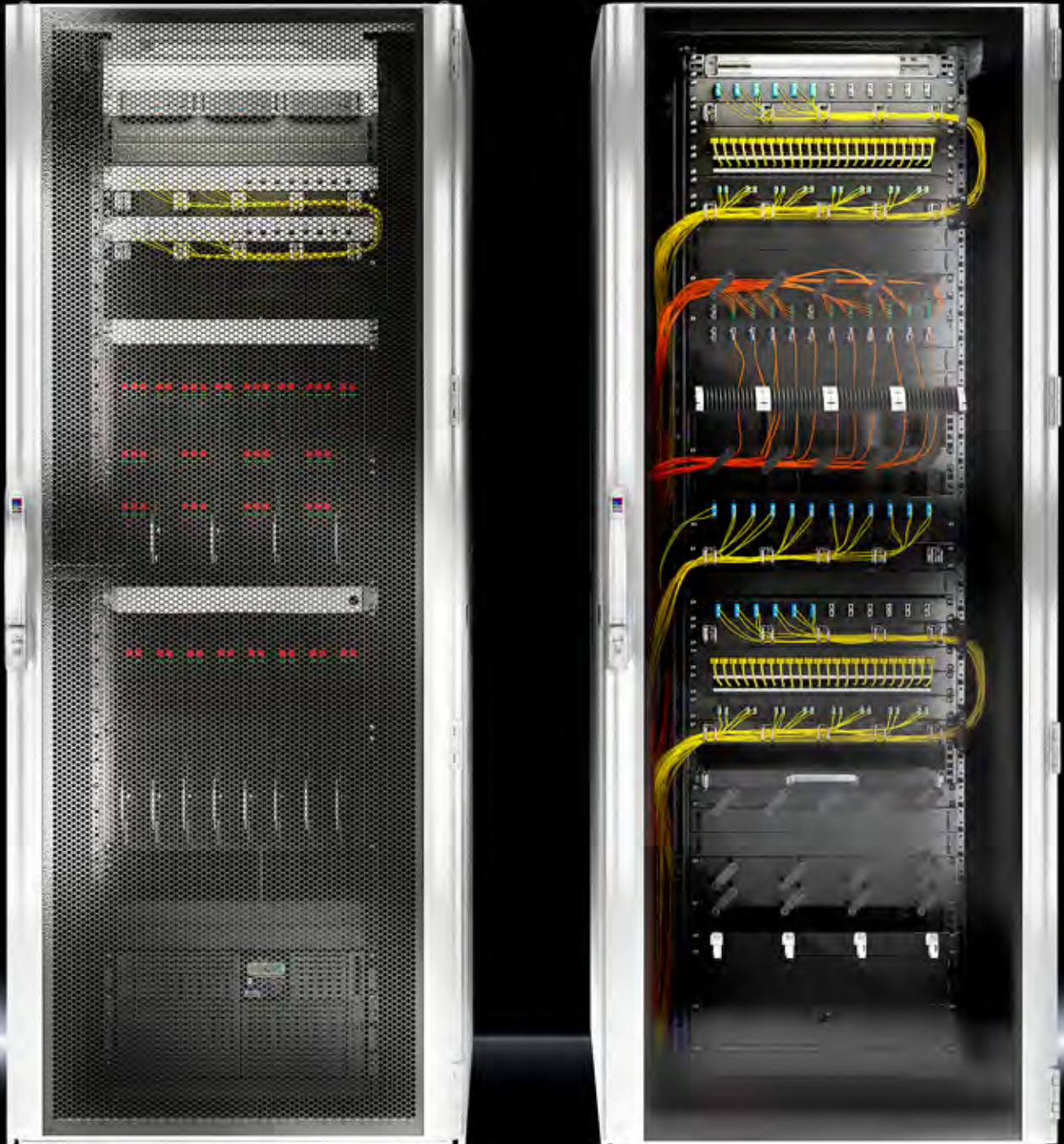
Distributor Rack

Data Rack	94
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IT Housing

VerticalBox	95
FlatBox with 19" Profile Rails	96
FlatBox with 19" Mounting Frames	97
EL Wall-Mounted Housing, 3-Part, Pre-Configured with Profile Rails	98
EL Wall-Mounted Housing, 3-Part, with Punched Rails and Profile Rails	99
EL Wall-Mounted Housing, 3-Part, with Mounting Plate and Profile Rails	100
AE Wall-Mounted Housing with 19" Profile Rails	102

TS IT Network/Server Enclosures



Fast and Safe

- Fast: Undo the 19" quick-release fastening, slide to the desired location and lock in place
- Safe: Highest mechanical loading of 15,000 N

The Ultimate in Comfort

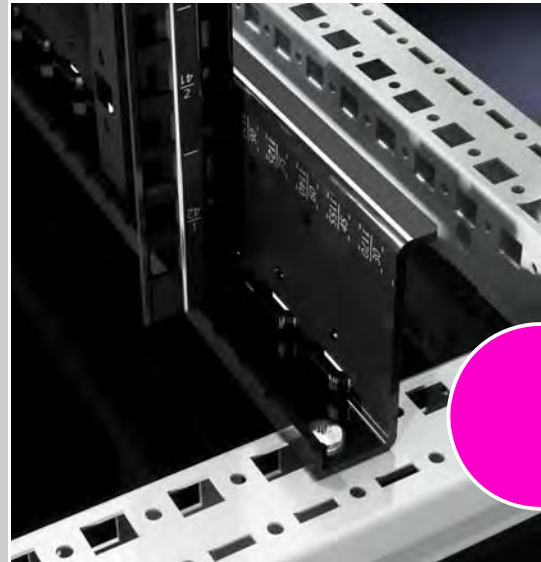
- Interior fitting – lateral offset and alternative installation dimensions easy to implement
- Clearance between levels – determined easily using integrated hole pattern
- U-labeling – front and rear, both sides can be read from the front

Impressive Door Concept

- Glazed or vented door
- Doors with 180° hinge and comfort handle prepared for customized locks
- Split rear door for space-optimized installation
- Optimized air throughput ~85 % free space within the perforation

Multifunctional Roof

- Brush strips for cable entry over the entire depth of the enclosure
- Cable clamping directly behind the brush strip
- Fan mounting plate or spacer bolts for active and passive climate control



TS IT Network/Server Enclosures



Tool-Free Installation

- Straightforward tool-free installation of slide rails, component shelves, telescopic slides and more
- Simply clip onto the rear profile rail, extend as far as required and secure at the front

Quick Sidewall Fitting

- Split sidewall for easy fitting by one person
- Attach sidewall at the top, clip in at the bottom, push together – done, no screws required
- Quick-release fasteners with integrated lock, with extra internal lock for added safety

Added Value Built In

- Prepared for Dynamic Rack Control or cable management
- Ready to go with space-saving clip-in installation of Rittal PDU busbars; on both sides in zero-U-space between mounting angle and sidewall

Sophisticated Climate Control Concept

- Comprehensively designed for rack, bay and room climate control
- All-round brush strip provides variable lateral closure
- Additional 6 U installation space integrated in partitioning



TS IT Network/Server Enclosures



IT Power Page 343 System Accessories Page 421 IT Monitoring Page 361 IT Cooling Page 347

Material:

- Carbon steel

Surface finish:

- Enclosure frame: Dipcoat-primed
- Interior fittings: Dipcoat-primed
- Doors and roof: Dipcoat-primed, powder-coated

Color:

- Housing frame and panels: RAL 9005
- Interior fittings: RAL 9005

Load capacity of 19" levels:

- 15000 N

Supply includes:

- Enclosure frame TS 8 with doors and roof plate
- Please note the product-specific scope of supply.

Note:

- Door opening may vary depending on site requirements or applications

Approvals:

- UL
- cUL

Technical details:

Available on the Internet

with vented door for room climate control

Height units U	Packs of	24	42	42	42	42	Page
Height inches (mm)		47 (1200)	79 (2000)	79 (2000)	79 (2000)	79 (2000)	
Width inches (mm)		32 (800)	24 (600)	24 (600)	32 (800)	32 (800)	
Depth inches (mm)		39 (1000)	39 (1000)	47 (1200)	39 (1000)	47 (1200)	
Level clearance pre-configured inches (mm)		29 (745)	29 (745)	29 (745)	29 (745)	29 (745)	
Model No.	1 pc(s).	5504.210	5508.210	5510.210	5509.210	5511.210	
Product-specific scope of supply							
Carbon steel door at the front, vented (vented surface area approx. 85% perforated), 180° hinges	1 pc(s).	■	■	■	■	■	
Carbon steel door at the rear, vented (vented surface area approx. 85% perforated), 180° hinges	1 pc(s).	■	–	–	–	–	
Lock front and rear: Comfort handle for semi-cylinders and security lock 3524 E	1 pc(s).	■	■	■	■	■	
Two 482.6 mm (19") mounting sections front and rear, variably mounted on support strips with quick-release fasteners		■	■	■	■	■	
Roof plate, multi-piece, removable, with side cable entry in the depth and covered cut-out for fan mounting plate	1 pc(s).	■	■	■	■	■	
Spacers to raise the fan cover plate, for passive cooling (supplied loose)	4 pc(s).	■	■	■	■	■	
Potential equalization with central grounding point (supplied loose)	1 set(s)	■	■	■	■	■	
Multi-tooth screws M5, captive nuts M5, conductive (supplied loose)	50 pc(s).	■	■	■	■	■	
Carbon steel door at the rear, vertically divided, vented (vented surface area approx. 85% perforated), 180° hinges	1 pc(s).	–	■	■	■	■	
Accessories							
Split sidewalls	1 pc(s).	–	5501.035	5501.045	5501.035	5501.045	452
Base mount	2 pc(s).	5501.325	5501.325	5501.355	5501.325	5501.355	439
Base plates	1 set(s)	5502.550	5502.540	5502.560	5502.550	5502.570	443
Base/plinth		from page	from page	from page	from page	from page	424
Fan mounting plates	1 pc(s).	5502.025	5502.015	5502.015	5502.025	5502.025	357
Air baffle plates	1 set(s)	–	5501.805	5501.805	5501.815	5501.815	601
Cable route	1 pc(s).	–	5502.120	5502.120	5502.120	5502.120	580
Cable duct	1 pc(s).	–	–	–	5502.105	5502.105	582
Component shelves		from page	from page	from page	from page	from page	540
Slide rails		from page	from page	from page	from page	from page	596

TS IT Network/Server Enclosures

with vented door for room climate control

Height units U	Packs of	47	47	47	47	Page
Height inches (mm)		87 (2200)	87 (2200)	87 (2200)	87 (2200)	
Width inches (mm)		24 (600)	24 (600)	32 (800)	32 (800)	
Depth inches (mm)		39 (1000)	47 (1200)	39 (1000)	47 (1200)	
Level clearance pre-configured inches (mm)		29 (745)	29 (745)	29 (745)	29 (745)	
Model No.	1 pc(s).	5513.210	5515.210	5514.210	5516.210	
Product-specific scope of supply						
Carbon steel door at the front, vented (vented surface area approx. 85% perforated), 180° hinges	1 pc(s).	■	■	■	■	
Carbon steel door at the rear, vertically divided, vented (vented surface area approx. 85% perforated), 180° hinges	1 pc(s).	■	■	■	■	
Lock front and rear: Comfort handle for semi-cylinders and security lock 3524 E	1 pc(s).	■	■	■	■	
Two 482.6 mm (19") mounting sections front and rear, variably mounted on support strips with quick-release fasteners		■	■	■	■	
Roof plate, multi-piece, removable, with side cable entry in the depth and covered cut-out for fan mounting plate	1 pc(s).	■	■	■	■	
Spacers to raise the fan cover plate, for passive cooling (supplied loose)	4 pc(s).	■	■	■	■	
Potential equalization with central grounding point (supplied loose)	1 set(s)	■	■	■	■	
Multi-tooth screws M5, captive nuts M5, conductive (supplied loose)	50 pc(s).	■	■	■	■	
Accessories						
Split sidewalls	1 pc(s).	5501.065	5501.075	5501.065	5501.075	452
Base mount	2 pc(s).	5501.325	5501.355	5501.325	5501.355	439
Base plates	1 set(s)	5502.540	5502.560	5502.550	5502.570	443
Base/plinth		from page	from page	from page	from page	424
Fan mounting plates	1 pc(s).	5502.015	5502.015	5502.025	5502.025	357
Air baffle plates	1 set(s)	5501.825	5501.825	5501.835	5501.835	601
Cable route	1 pc(s).	5502.120	5502.120	5502.120	5502.120	580
Cable duct	1 pc(s).	–	–	5502.145	5502.145	582
Component shelves		from page	from page	from page	from page	540
Slide rails		from page	from page	from page	from page	596

New



PDU – Power Distribution Unit

See page 344

TS IT Network/Server Enclosures



IT Power Page 343 System Accessories Page 421 IT Monitoring Page 361 IT Cooling Page 347

Material:

- Carbon steel
- Glazed door: Single-pane safety glass, 3 mm

Surface finish:

- Enclosure frame: Dipcoat-primed
- Interior fittings: Dipcoat-primed
- Doors and roof: Dipcoat-primed, powder-coated

Color:

- Housing frame and panels: RAL 9005
- Interior fittings: RAL 9005

Load capacity of 19" levels:

- 15000 N

Supply includes:

- Enclosure frame TS 8 with doors and roof plate
- Please note the product-specific scope of supply.

Note:

- Door opening may vary depending on site requirements or applications

Approvals:

- UL
- cUL

Technical details:

Available on the Internet

with glazed door for rack climate control

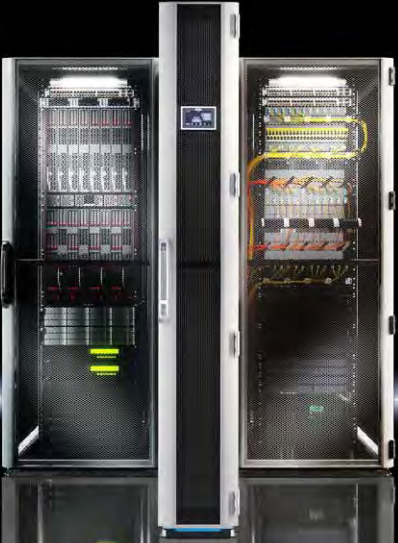
Height units U	Packs of	24	24	38	42	42	Page
Height inches (mm)		47 (1200)	47 (1200)	71 (1800)	79 (2000)	79 (2000)	
Width inches (mm)		32 (800)	32 (800)	32 (800)	24 (600)	24 (600)	
Depth inches (mm)		32 (800)	39 (1000)	32 (800)	39 (1000)	47 (1200)	
Level clearance pre-configured inches (mm)		21 (545)	29 (745)	21 (545)	29 (745)	29 (745)	
Model No.	1 pc(s).	5503.220	5504.220	5505.220	5508.220	5510.220	
Product-specific scope of supply							
Glazed aluminum door, front, 180° hinges	1 pc(s).	■	■	■	■	■	
Carbon steel door, rear, 180° hinges	1 pc(s).	■	■	–	–	–	
Lock front and rear: Comfort handle for semi-cylinders and security lock 3524 E	1 pc(s).	■	■	■	■	■	
Two 482.6 mm (19") mounting sections front and rear, variably mounted on support strips with quick-release fasteners		■	■	■	■	■	
Roof plate, multi-piece, removable, with side cable entry in the depth and covered cut-out for fan mounting plate	1 pc(s).	■	■	■	■	■	
Spacers to raise the fan cover plate, for passive cooling (supplied loose)	4 pc(s).	■	■	■	■	■	
Potential equalization with central grounding point (supplied loose)	1 set(s)	■	■	■	■	■	
Multi-tooth screws M5, captive nuts M5, conductive (supplied loose)	50 pc(s).	■	■	■	■	■	
Carbon steel door, rear, vertically divided, 180° hinges	1 pc(s).	–	–	■	■	■	
Accessories							
Split sidewalls	1 pc(s).	–	–	5501.005	5501.035	5501.045	452
Base mount	2 pc(s).	5501.315	5501.325	5501.315	5501.325	5501.355	439
Base plates	1 set(s)	5502.530	5502.550	5502.530	5502.540	5502.560	443
Base/plinth		from page	from page	from page	from page	from page	424
Fan mounting plates	1 pc(s).	5502.025	5502.025	5502.025	5502.015	5502.015	357
Air baffle plates	1 set(s)	–	–	–	5501.805	5501.805	601
Cable route	1 pc(s).	–	–	–	5502.120	5502.120	580
Cable duct	1 pc(s).	–	–	–	5502.105	–	582
Component shelves		from page	from page	from page	from page	from page	540
Slide rails		from page	from page	from page	from page	from page	596

TS IT Network/Server Enclosures

with glazed door for rack climate control

Height units U	Packs of	42	42	42	42	47	Page
Width inches (mm)		32 (800)	32 (800)	32 (800)	32 (800)	32 (800)	
Height inches (mm)		79 (2000)	79 (2000)	79 (2000)	79 (2000)	87 (2200)	
Depth inches (mm)		24 (600)	32 (800)	39 (1000)	47 (1200)	32 (800)	
Level clearance pre-configured inches (mm)		18 (445)	21 (545)	29 (745)	29 (745)	29 (745)	
Model No.	1 pc(s).	5506.220	5507.220	5509.220	5511.220	5512.220	
Product-specific scope of supply							
Glazed aluminum door, front, 180° hinges	1 pc(s).	■	■	■	■	■	
Carbon steel door, rear, vertically divided, 180° hinges	1 pc(s).	■	■	■	■	■	
Lock front and rear: Comfort handle for semi-cylinders and security lock 3524 E	1 pc(s).	■	■	■	■	■	
Two 482.6 mm (19") mounting sections front and rear, variably mounted on support strips with quick-release fasteners		■	■	■	■	■	
Roof plate, multi-piece, removable, for horizontal cable entry at the rear and covered cut-out for fan mounting plate	1 pc(s).	■	–	–	–	–	
Spacers to raise the fan cover plate, for passive cooling (supplied loose)	4 pc(s).	■	■	■	■	■	
Potential equalization with central grounding point (supplied loose)	1 set(s)	■	■	■	■	■	
Multi-tooth screws M5, captive nuts M5, conductive (supplied loose)	50 pc(s).	■	■	■	■	■	
Roof plate, multi-piece, removable, with side cable entry in the depth and covered cut-out for fan mounting plate	1 pc(s).	–	■	■	■	■	
Accessories							
Split sidewalls	1 pc(s).	5501.015	5501.025	5501.035	5501.045	5501.055	452
Base mount	2 pc(s).	5501.305	5501.315	5501.325	5501.355	5501.315	439
Base plates	1 set(s)	5502.510	5502.530	5502.550	5502.570	5502.530	443
Base/plinth		from page	from page	from page	from page	from page	424
Fan mounting plates	1 pc(s).	5502.015	5502.025	5502.025	5502.025	5502.025	357
Air baffle plates	1 set(s)	5501.815	5501.815	5501.815	5501.815	5501.835	601
Cable route	1 pc(s).	5502.120	5502.120	5502.120	5502.120	5502.120	580
Cable duct	1 pc(s).	5502.105	5502.105	5502.105	5502.105	5502.145	582
Component shelves		from page	from page	from page	from page	from page	540
Slide rails		from page	from page	from page	from page	from page	596

New



LCP – Liquid Cooling Package

See page 350

Distributor Rack



19" Installation System Page 587 IT Monitoring Page 361 Accessories for Data Rack Page 591

Material:

- Profile frame, base/plinth: Carbon steel
- Feet: Die-cast zinc

Color:

- Profile frame, base/plinth: RAL 7035
- Panel, feet: RAL 5018

Load capacity:

- Max. 150 kg, static/level

Supply includes:

- Torsionally stiff profile frame with 19" (482.6 mm) hole pattern
- Stable base/plinth with integral feet, with the option of floor anchoring without base trim panels
- Leveling feet
- Incl. mounting accessories

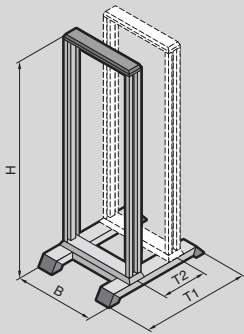
Note:

- Order second mounting level separately

Technical details:

Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply



Data Rack

Height units U	Packs of	31	36	40	45	Page
Height (H) inches (mm)		59 (1499.5)	68 (1721.8)	75 (1899.5)	84 (2121.8)	
Width (B) inches (mm)		22 (550)	22 (550)	22 (550)	22 (550)	
Depth (T1) inches (mm)		30 (750)	30 (750)	30 (750)	30 (750)	
Clearance to second mounting level, 50 mm hole pattern (T2) inches (mm)		6 - 14 (150 - 350)	6 - 14 (150 - 350)	6 - 14 (150 - 350)	6 - 14 (150 - 350)	
Model No.	1 pc(s).	7391.000	7396.000	7400.000	7445.000	
Accessories						
Second mounting level	1 pc(s).	7296.000	7297.000	7298.000	7299.000	591
Twin castors	1 set(s)	7495.000	7495.000	7495.000	7495.000	436
Cable duct	1 pc(s).	5502.105	5502.105	5502.105	5502.145	582
Cable routing to 19" (482.6 mm) level	6 pc(s).	7016.100	7016.100	7016.100	7016.100	586
	6 pc(s).	7016.110	7016.110	7016.110	7016.110	586
Keyboard drawer 2 U	1 pc(s).	7281.035	7281.035	7281.035	7281.035	615



System Accessories Page 421

Compact 19" housing for small networks.

Advantages:

- May be used as wall-mounted, under-desk or desktop housing
- Free access from three sides for interior fitting
- Passive ventilation with vent slots
- Rear panel prepared to accommodate a fan
- Freely selectable door catch

Material:

- Carbon steel
- Viewing window: Single-pane safety glass, 3 mm

Surface finish:

- Powder-coated

Color:

- RAL 7035

Supply includes:

- Housing with glazed door
- Sidewalls (1 x fixed, 1 x slot-in) with vent slots
- Knockouts for cable entry via roof or base
- Slot-in rear panel with knockouts for cable entry and fan accommodation
- 19" mounting level, 5 U, horizontal front and rear, depth-variable, distance between levels 434 – 489 mm
- Security lock 12321 on the door, side and rear panel
- 4 plastic feet, self-adhesive

Technical details:

Available on the Internet

Height units U	Packs of	5	Page
Height inches (mm)		21 (540)	
Width inches (mm)		12 (300)	
Depth inches (mm)		24 (600)	
Model No.	1 pc(s).	7501.000	
Accessories			
Brush strip	1 pc(s).	7072.200	567
Wall mounting bracket		see page	503
Fan expansion kit	1 set(s)	7980.100	358
Blanking panel, 19" (482.6 mm)	2 pc(s).	7151.035	603
Cable management panel		see page	584
Cable entry panel		see page	586



System Accessories Page 421

For flexible use as a wall-mounted or floor-standing enclosure.

Advantages:

- Tool-free quick mounting
- System configuration on an open 19" frame

Material:

- Carbon steel
- Viewing window: Single-pane safety glass, 3 mm

Surface finish:

- Powder-coated

Color:

- RAL 7035

Supply includes:

- Flat-packed enclosure
- 1 wall section
- 2 basic supports
- 2 roof/base plates, with cut-outs for cable entry via brush strips
- 2 sidewalls, lockable
- 1 glazed door, lockable, security lock 3524 E, door catch freely selectable
- Connection components for tool-free, fast assembly
- Grounding kit for system-compatible grounding of all enclosure parts

Please note the product-specific scope of supply.

Note:

- Max. installation depth: Depth -112 mm
- Max. distance between two 19" levels: Depth -126 mm

Technical details:

Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

Version with 19" Profile Rails

Height units U	Packs of	6	6	9	9	Page
Height inches (mm)		14 (358)	14 (358)	19 (492)	19 (492)	
Width inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	
Depth inches (mm)		16 (400)	24 (600)	16 (400)	24 (600)	
Model No.	1 pc(s).	7507.000	7507.100	7507.010	7507.110	
Product-specific scope of supply						
19" profile rails	2 pc(s).	■	■	■	■	
Accessories						
Profile rails, 19"	2 pc(s).	7507.706	7507.706	7507.709	7507.709	595
Ground rail, horizontal	1 pc(s).	7113.000	7113.000	7113.000	7113.000	557
Fan expansion kit		see page	see page	see page	see page	358
Internal enclosure thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	315
Cable management panel	1 pc(s).	5502.205	5502.205	5502.205	5502.205	584
Component shelves 2 U, static installation	1 pc(s).	–	see page	–	see page	542
Component shelves, pull-out	1 set(s)	–	5501.675	–	5501.675	541

Version with 19" Mounting Frame

Height units U	Packs of	12	12	15	15	18	21	Page
Height inches (mm)		25 (625)	25 (625)	30 (758)	30 (758)	35 (892)	40 (1025)	
Width inches (mm)		24 (600)	24 (600)	24 (600)	28 (700)	28 (700)	28 (700)	
Depth inches (mm)		16 (400)	24 (600)	16 (400)	28 (700)	28 (700)	28 (700)	
Model No.	1 pc(s).	7507.020	7507.120	7507.030	7507.200	7507.210	7507.220	
Product-specific scope of supply								
19" mounting frame	1 pc(s).	■	■	■	■	■	■	
Leveling feet	4 pc(s).	■	■	■	■	■	■	
Accessories								
Profile rails, 19"	2 pc(s).	7507.712	7507.712	7507.715	7507.715	7507.718	7507.721	595
Ground rail, horizontal	1 pc(s).	7113.000	7113.000	7113.000	7113.000	7113.000	7113.000	557
Fan expansion kit		see page	see page	see page	see page	see page	see page	358
Internal enclosure thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	315
Cable management panel	1 pc(s).	5502.205	5502.205	5502.205	5502.205	5502.205	5502.205	584
Component shelves 2 U, static installation	1 pc(s).	–	see page	–	see page	see page	see page	542
Component shelves, pull-out	1 set(s)	–	5501.675	–	5501.675	5501.675	5501.675	541



Fan expansion kit

From page 358

EL Wall-Mounted Housing, 3-part



System Accessories Page 421 **Wall mounting** Page 503 **Cable clamps** Page 575

Wall-mounted housing with hinged door provides optimum accessibility.

Material:

- Wall and hinged part: Carbon steel, 1.5 mm
- Viewing window: Single-pane safety glass, 3 mm

Surface finish:

- Powder-coated

Color:

- Wall and hinged part: RAL 7035
- Glazed door: RAL 7035/7015 (slate gray)

Supply includes:

- Wall section
 - Hinged part with 25 mm hole pattern in the front and rear frame
 - Designer glazed door
- Please note the product-specific scope of supply.

Note:

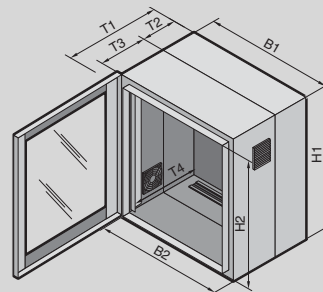
- Protection category IP 54 in conjunction with solid flange (gland) plate, top and bottom
- Housing 673 mm deep with reinforced wall mounting bracket

Approvals:

- UL
- cUL

Technical details:

Available on the Internet



Pre-configured with profile rails, depth-variable

Height units U	Packs of	9	9	15	15	21	21	Page
Height (H1) inches (mm)		19 (478)	19 (478)	29 (746)	29 (746)	40 (1012)	40 (1012)	
Width (B1) inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	
Depth (T1) inches (mm)		23 (573)	27 (673)	23 (573)	27 (673)	23 (573)	27 (673)	
Lateral clearance (B2) inches (mm)		20 (502)	20 (502)	20 (502)	20 (502)	20 (502)	20 (502)	
Vertical clearance (H2) inches (mm)		16 (415)	16 (415)	27 (683)	27 (683)	37 (949)	37 (949)	
Depth of wall section (T2) inches (mm)		5 (135)	5 (135)	5 (135)	5 (135)	5 (135)	5 (135)	
Depth of hinged part (T3) inches (mm)		16 (416)	20 (516)	16 (416)	20 (516)	16 (416)	20 (516)	
Max. installation depth (T4) inches (mm)		20 (520)	24 (620)	20 (520)	24 (620)	20 (520)	24 (620)	
Load capacity of hinged part (static) lb (kg)		99 (45)	99 (45)	165 (75)	165 (75)	165 (75)	165 (75)	
Model No.	1 pc(s).	7709.735	7709.535	7715.735	7715.535	7721.735	7721.535	
Product-specific scope of supply								
Wall section: Flange (gland) plate, solid, top		■	■	■	■	■	■	
Wall section: Flange (gland) plate with brush strip, bottom		■	■	■	■	■	■	
Wall section: 2 vertical punched rails		■	■	■	■	■	■	
Wall section: C rail mounted horizontally for cable clamping		■	■	■	■	■	■	
Hinged part with two 19" profile rails, fully depth adjustable		■	■	■	■	■	■	
Hinged part: Side outlet filters left and right		■	■	■	■	■	■	
Ground rail with star grounding		■	■	■	■	■	■	
4x 0.4" (10 mm) trim panels		■	■	■	■	■	■	
Mini-comfort handle		■	■	■	■	–	–	
Security lock 3524 E		■	■	■	■	■	■	
Comfort handle and 2-point locking		–	–	–	–	■	■	
Accessories								
Flange (gland) plate for metric cable glands	1 pc(s).	7705.235	7705.235	7705.235	7705.235	7705.235	7705.235	566
Fan expansion kit	1 set(s)	7980.100	7980.100	7980.100	7980.100	7980.100	7980.100	358
Spare filter mats	5 pc(s).	3322.700	3322.700	3322.700	3322.700	3322.700	3322.700	307
Wall mounting bracket		see page	–	see page	–	see page	–	503
Component shelves 2 U, static installation	1 pc(s).	–	see page	–	see page	–	see page	542

EL Wall-Mounted Housing, 3-part



System Accessories Page 421 **Wall Mounting** Page 503 **Grounding** Page 555

Wall-mounted housing with hinged door provides optimum accessibility.

Material:

- Wall and hinged part: Carbon steel, 1.5 mm
- Viewing window: Single-pane safety glass, 3 mm

Surface finish:

- Powder-coated

Color:

- Wall and hinged part: RAL 7035
- Glazed door: RAL 7035/7015 (slate gray)

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

Supply includes:

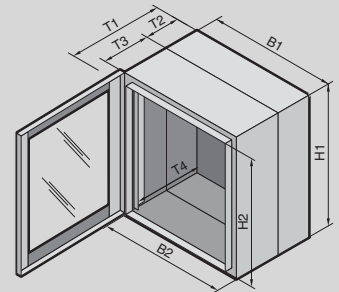
- Wall section
 - Hinged part with 25 mm hole pattern in the front and rear frame
 - Designer glazed door
- Please note the product-specific scope of supply.

Approvals:

- UL
- cUL

Technical details:

Available on the Internet



with punched rails and profile rails, depth-variable

Height units U	Packs of	6	9	12	15	21	21	Page
Height (H1) inches (mm)		14 (345)	19 (478)	24 (612)	29 (746)	40 (1012)	40 (1012)	
Width (B1) inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	
Depth (T1) inches (mm)		19 (473)	19 (473)	19 (473)	19 (473)	19 (473)	24 (600)	
Lateral clearance (B2) inches (mm)		20 (502)	20 (502)	20 (502)	20 (502)	20 (502)	20 (502)	
Vertical clearance (H2) inches (mm)		11 (282)	16 (415)	22 (549)	27 (683)	37 (949)	37 (949)	
Depth of wall section (T2) inches (mm)		5 (135)	5 (135)	5 (135)	5 (135)	5 (135)	5 (135)	
Depth of hinged part (T3) inches (mm)		12 (316)	12 (316)	12 (316)	12 (316)	12 (316)	18 (445)	
Max. installation depth (T4) inches (mm)		17 (420)	17 (420)	17 (420)	17 (420)	17 (420)	21 (530)	
Load capacity of hinged part (static) lb (kg)		66 (30)	99 (45)	132 (60)	165 (75)	165 (75)	165 (75)	
Model No.	1 pc(s).	7706.135	7709.135	7712.135	7715.135	7721.135	9969.582	
Product-specific scope of supply								
Wall section: Flange (gland) plate, solid, top and bottom		■	■	■	■	■	■	
Wall section: 2 vertical punched rails		■	■	■	■	■	■	
Wall section: C rail mounted horizontally for cable clamping		■	■	■	■	■	■	
Hinged part with two 19" profile rails, fully depth adjustable		■	■	■	■	■	■	
4x 0.4" (10 mm) trim panels		■	■	■	■	■	■	
Mini-comfort handle		■	■	■	■	–	–	
Security lock 3524 E		■	■	■	■	■	■	
Comfort handle and 2-point locking		–	–	–	–	■	■	
Accessories								
Flange (gland) plate with brush insert	1 pc(s).	7705.035	7705.035	7705.035	7705.035	7705.035	7705.035	567
Flange (gland) plate for metric cable glands	1 pc(s).	7705.235	7705.235	7705.235	7705.235	7705.235	7705.235	566
Wall mounting bracket		see page	see page	see page	see page	see page	see page	503
Ground rail, horizontal	1 pc(s).	7113.000	7113.000	7113.000	7113.000	7113.000	7113.000	557
Lock systems		from page	from page	from page	from page	from page	from page	478

EL Wall-Mounted Housing, 3-part



System Accessories Page 421 **Wall mounting** Page 503 **Cable clamps** Page 575

Wall-mounted housing with hinged door provides optimum accessibility.

Material:

- Wall and hinged part: Carbon steel, 1.5 mm
- Viewing window: Single-pane safety glass, 3 mm

Surface finish:

- Powder-coated

Color:

- Wall and hinged part: RAL 7035
- Glazed door: RAL 7035/7015 (slate gray)

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

Supply includes:

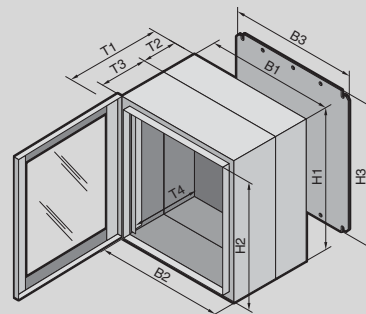
- Wall section
 - Hinged part with 25 mm hole pattern in the front and rear frame
 - Designer glazed door
- Please note the product-specific scope of supply.

Approvals:

- UL
- cUL

Technical details:

Available on the Internet



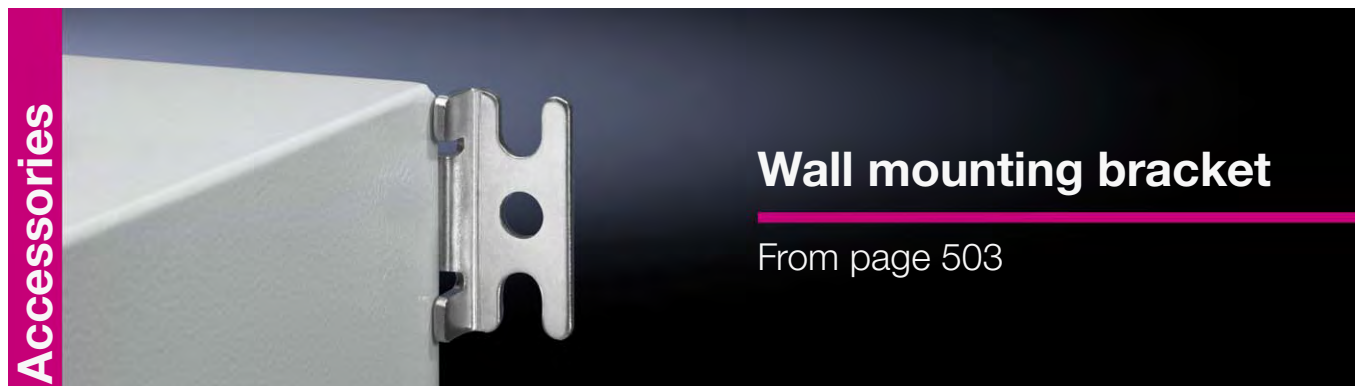
with mounting plate and profile rails, static installation

Height units U	Packs of	3	3	6	6	9	9	12	Page
Height (H1) inches (mm)		8 (212)	8 (212)	14 (345)	14 (345)	19 (478)	19 (478)	24 (612)	
Width (B1) inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	
Depth (T1) inches (mm)		15 (373)	19 (473)	15 (373)	19 (473)	15 (373)	19 (473)	15 (373)	
Lateral clearance (B2) inches (mm)		20 (502)	20 (502)	20 (502)	20 (502)	20 (502)	20 (502)	20 (502)	
Vertical clearance (H2) inches (mm)		6 (149)	6 (149)	11 (282)	11 (282)	16 (415)	16 (415)	22 (549)	
Depth of wall section (T2) inches (mm)		5 (135)	5 (135)	5 (135)	5 (135)	5 (135)	5 (135)	5 (135)	
Depth of hinged part (T3) inches (mm)		9 (216)	12 (316)	9 (216)	12 (316)	9 (216)	12 (316)	9 (216)	
Max. installation depth (T4) inches (mm)		13 (320)	17 (420)	13 (320)	17 (420)	13 (320)	17 (420)	13 (320)	
Width of mounting plate (B3) inches (mm)		19 (485)	19 (485)	19 (485)	19 (485)	19 (485)	19 (485)	19 (485)	
Height of mounting plate (H3) inches (mm)		7 (165)	7 (165)	12 (299)	12 (299)	17 (432)	17 (432)	22 (565)	
Load capacity of hinged part (static) lb (kg)		33 (15)	33 (15)	66 (30)	66 (30)	99 (45)	99 (45)	132 (60)	
Model No.	1 pc(s).	2243.605	2253.605	2246.605	2256.605	2249.605	2259.605	2252.605	
Product-specific scope of supply									
Wall section: Flange (gland) plate, solid, top and bottom		■	■	■	■	■	■	■	
Wall section: Mounting plate supplied loose		■	■	■	■	■	■	■	
Hinged part with two 19" profile rails		■	■	■	■	■	■	■	
Mini-comfort handle		■	■	■	■	■	■	■	
Security lock 3524 E		■	■	■	■	■	■	■	
Accessories									
Flange (gland) plate with brush insert	1 pc(s).	7705.035	7705.035	7705.035	7705.035	7705.035	7705.035	7705.035	567
Flange (gland) plate for metric cable glands	1 pc(s).	7705.235	7705.235	7705.235	7705.235	7705.235	7705.235	7705.235	566
Wall mounting bracket		see page	see page	see page	see page	see page	see page	see page	503
Cable glands		from page	from page	from page	from page	from page	from page	from page	568
Blanking plates, 19" (482.6 mm)		–	–	see page	see page	see page	see page	see page	600
Lock systems		from page	from page	from page	from page	from page	from page	from page	478

EL Wall-Mounted Housing, 3-part

with mounting plate and profile rails, static installation

Height units U	Packs of	12	15	15	21	21	Page
Height (H1) inches (mm)		24 (612)	29 (746)	29 (746)	40 (1012)	40 (1012)	
Width (B1) inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	
Depth (T1) inches (mm)		19 (473)	15 (373)	19 (473)	15 (373)	19 (473)	
Lateral clearance (B2) inches (mm)		20 (502)	20 (502)	20 (502)	20 (502)	20 (502)	
Vertical clearance (H2) inches (mm)		22 (549)	27 (683)	27 (683)	37 (949)	37 (949)	
Depth of wall section (T2) inches (mm)		5 (135)	5 (135)	5 (135)	5 (135)	5 (135)	
Depth of hinged part (T3) inches (mm)		12 (316)	9 (216)	12 (316)	9 (216)	12 (316)	
Max. installation depth (T4) inches (mm)		17 (420)	13 (320)	17 (420)	13 (320)	17 (420)	
Width of mounting plate (B3) inches (mm)		19 (485)	19 (485)	19 (485)	19 (485)	19 (485)	
Height of mounting plate (H3) inches (mm)		22 (565)	28 (699)	28 (699)	38 (965)	38 (965)	
Load capacity of hinged part (static) lb (kg)		132 (60)	165 (75)	165 (75)	165 (75)	165 (75)	
Model No.	1 pc(s).	2262.605	2255.605	2265.605	2261.605	2271.605	
Product-specific scope of supply							
Wall section: Flange (gland) plate, solid, top and bottom		■	■	■	■	■	
Wall section: Mounting plate supplied loose		■	■	■	■	■	
Hinged part with two 19" profile rails		■	■	■	■	■	
Mini-comfort handle		■	■	■	–	–	
Security lock 3524 E		■	■	■	■	■	
Comfort handle and 2-point locking		–	–	–	■	■	
Accessories							
Flange (gland) plate with brush insert	1 pc(s).	7705.035	7705.035	7705.035	7705.035	7705.035	567
Flange (gland) plate for metric cable glands	1 pc(s).	7705.235	7705.235	7705.235	7705.235	7705.235	566
Wall mounting bracket		see page	see page	see page	see page	see page	503
Cable glands		from page	from page	from page	from page	from page	568
Blanking plates, 19" (482.6 mm)		see page	see page	see page	see page	see page	600
Lock systems		from page	from page	from page	from page	from page	478



Wall mounting bracket

From page 503

AE Wall-Mounted Housing



System accessories Page 421 **Captive nuts** Page 538 **Glazed doors** Page 473

Wall-mounted housing for small networks with a high protection category.

Material:

- Housing: Carbon steel

Surface finish:

- Housing: Powder-coated
- Profile rails: Zinc-plated

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- Up to IP 66 (depending on the selected flange (gland) plate)

Supply includes:

- Housing with hinged door
- Door catch on right, may be swapped to the left
- Cam lock with 3 mm double-bit insert
- Flange (gland) plate with brush strip for cable entry in the enclosure base
- Profile rails, 19" (482.6 mm), fully depth-adjustable
- C rail, for cable clamping on the rear panel
- Metal bracket for optional accommodation of a ground rail or a 19" socket strip

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Lloyds Register of Shipping

Technical details:

Available on the Internet

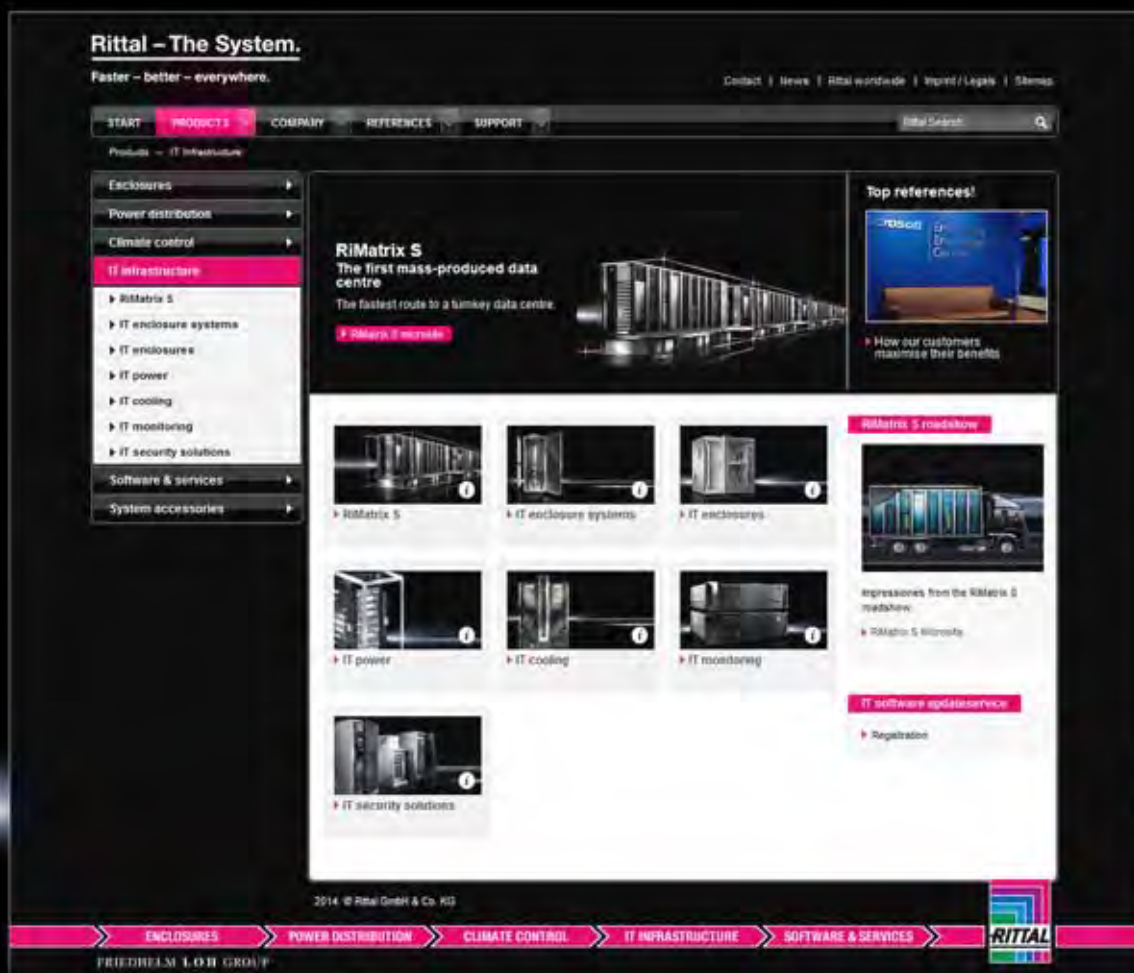
with 482.6 mm (19") profile rails, depth-variable

Height units U	Packs of	8	13	16	Page
Height inches (mm)		15 (380)	24 (600)	30 (760)	
Width inches (mm)		24 (600)	24 (600)	24 (600)	
Depth inches (mm)		14 (350)	14 (350)	14 (350)	
Max. installation depth inches (mm)		12 (310)	12 (310)	12 (310)	
Cam locks		1	2	2	
Model No.	1 pc(s).	7641.000	7643.000	7645.000	
Flange (gland) plate, size		5	5	5	
Flange (gland) plate, qty		1	1	1	
Accessories					
Wall mounting bracket		see page	see page	see page	503
Viewing window		see page	see page	see page	473
Ground rail, horizontal	1 pc(s).	7113.000	7113.000	7113.000	557
Lock systems		from page	from page	from page	478

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Console Systems/ PC Enclosure Systems

TP TopConsole System

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TP One-Piece Consoles

TP One-Piece Consoles	113
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PC Enclosure Systems

PC Enclosure Systems	115
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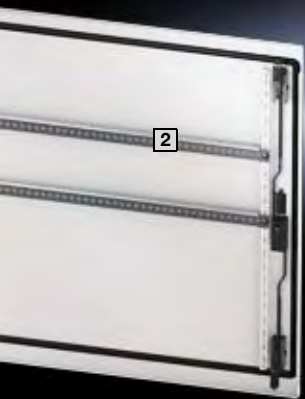
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TP TopConsole System

Overview of Extension Components

- 1 System chassis 17 x 73 mm
- 2 Support strips
- 3 Partial mounting plates
- 4 Rail for interior fitting
- 5 Base plates
- 6 Cable entry grommets



TP TopConsole System



System accessories Page 421 **Keyboards** Page 610 **Climate control** Page 233

Material:

- Housing: Carbon steel 1.5 mm
- Door and console lid: Carbon steel, 2.0 mm, all-round foamed-in PU seal
- Mounting plate: Carbon steel 2.5 mm (depth 500 mm), 3.0 mm (depth 400 mm)

Surface finish:

- Housing, cover and door: Dip-coat-primed, powder-coated on the outside, textured paint
- Mounting plate: Zinc-plated

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55 provided suitable base plates are selected

Protection category NEMA:

- NEMA 12 providing suitable base plates are selected

Supply includes:

Top piece

- Housing
- Cover hinged at bottom, including cover retainer
- Open base for individual cable entry

Desk unit

- Housing
- Cover hinged, 2 stays with automatic locking, unlocks automatically on the left, manually on the right
- Opening for cable entry into the housing base

Pedestal

- Housing open at top
- Door or double door with locking rod (with depth 400 mm at the front, with depth 500 mm at the front and rear)
- Depth-adjustable mounting plate (with depth 500 mm)
- Open base for individual cable entry



Also required:

- Base plates, see page 440

Approvals:

- UL
- cUL

Technical details:

Available on the Internet

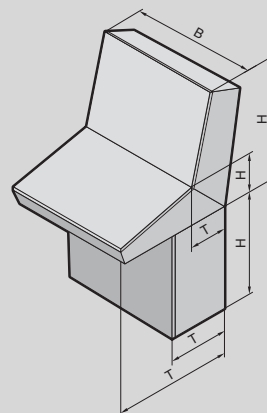
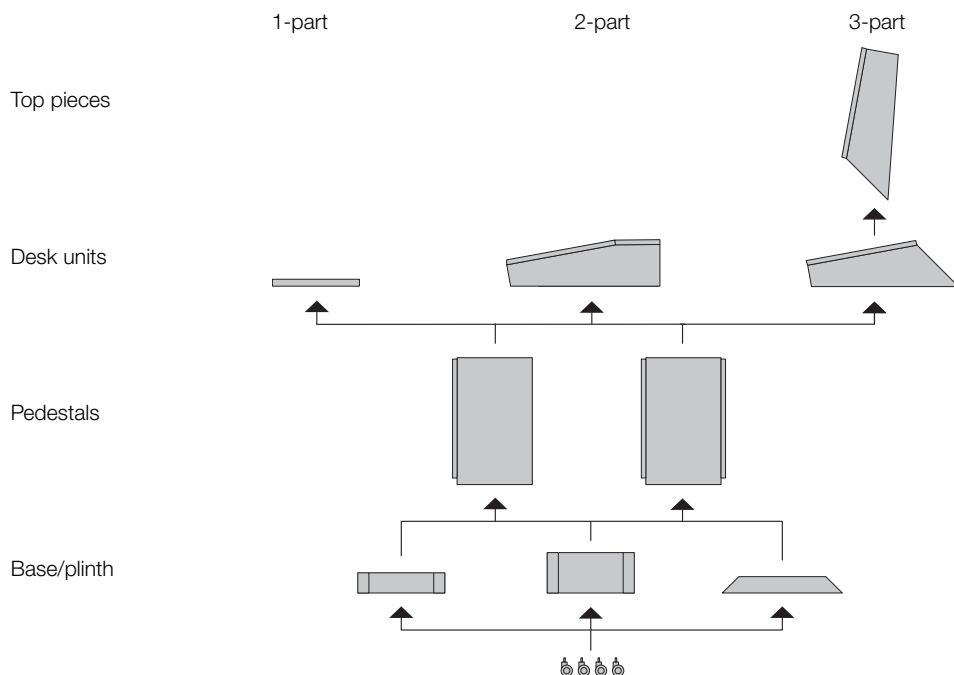


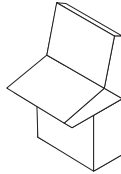
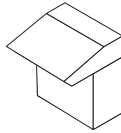
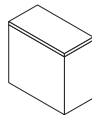
Photo shows a configuration example with equipment not included in the scope of supply

Combination Options



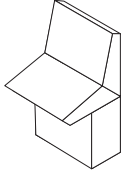
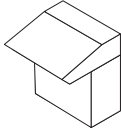
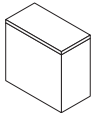
TP TopConsole System

24" (600 mm) wide

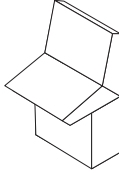
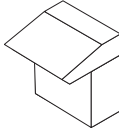
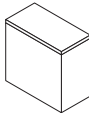
									
Design	3-part		2-part		1-part				
Depth of pedestal in inches (mm)	16 (400)	20 (500)	16 (400)	20 (500)	16 (400)	20 (500)			
Top pieces 28" (700 mm) high									
Height (H) inches (mm)	Packs of	28 (700)	–	–	–	Page			
Depth (D) inches (mm)		9 (240)	–	–	–				
Model No.	1 pc(s).	6720.500	–	–	–				
Accessories									
Partial mounting plates, locatable into rails	Width 8" (200 mm)	1 pc(s).	6730.310	–	–	513			
	Width 20" (500 mm)	1 pc(s).	6730.330	–	–	513			
Rails for interior fitting	for width	4 pc(s).	5001.050	–	–	521			
Desk units									
Height (H) inches (mm)	Packs of	9 (235)	9 (235)	–	–	Page			
Depth (D) inches (mm)		28 (700)	28 (700)	–	–				
Model No.	1 pc(s).	6714.500	6710.500	–	–				
Accessories									
Rails for interior fitting	for width	4 pc(s).	5001.050	5001.050	–	521			
Trim panel		1 pc(s).	–	–	5001.130	114			
Pedestals									
Height (H) inches (mm)	Packs of	27 (675)	27 (675)	27 (675)	27 (675)	27 (675)	Page		
Depth (D) inches (mm)		16 (400)	20 (500)	16 (400)	20 (500)	16 (400)	20 (500)		
Model No.	1 pc(s).	6700.500	6704.500	6700.500	6704.500	6700.500	6704.500		
Accessories									
Base/plinth components Front and rear	Height 4" (100 mm)	1 set(s)	8601.600	8601.600	8601.600	8601.600	8601.600	427	
	Height 8" (200 mm)	1 set(s)	8602.600	8602.600	8602.600	8602.600	8602.600	8602.600	427
Base/Plinth Trim Panels, Side	Height 4" (100 mm)	1 set(s)	8601.040	8601.050	8601.040	8601.050	8601.040	8601.050	428
	Height 8" (200 mm)	1 set(s)	8602.040	8602.050	8602.040	8602.050	8602.040	8602.050	428
Cross member		2 pc(s).	8601.450	8601.450	8601.450	8601.450	8601.450	8601.450	434
Base plates	1-part	1 pc(s).	5001.222	–	5001.222	–	5001.222	–	440
	2-part	1 pc(s).	5001.214	5001.214	5001.214	5001.214	5001.214	5001.214	441
			+	+	+	+	+	+	
	Individual	1 pc(s).	5001.218	5001.222	5001.218	5001.222	5001.218	5001.222	441
For other base plates, see page 447									
Rails for interior fitting	for height	4 pc(s).	5001.050	5001.050	5001.050	5001.050	5001.050	5001.050	521
System chassis 17 x 73 mm	Depth	4 pc(s).	8612.140	8612.150	8612.140	8612.150	8612.140	8612.150	522
Punched rail 18 x 38 mm	Depth	4 pc(s).	8612.240	8612.250	8612.240	8612.250	8612.240	8612.250	525
Support strips	Depth	20 pc(s).	4694.000	4695.000	4694.000	4695.000	4694.000	4695.000	525
System chassis 17 x 73 mm	for door	4 pc(s).	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050	522
Support strips	for door	20 pc(s).	4596.000	4596.000	4596.000	4596.000	4596.000	4596.000	525
Cable clamp rail		1 pc(s).	5001.080	5001.080	5001.080	5001.080	5001.080	5001.080	574
Wiring plan pockets, carbon steel		1 pc(s).	4116.500	4116.500	4116.500	4116.500	4116.500	4116.500	497
TP aluminum strip		1 pc(s).	6731.120	6731.120	6731.120	6731.120	–	–	114
Lock systems	from page 480								

TP TopConsole System

32" (800 mm) wide

								
Design		3-part		2-part		1-part		
Depth of pedestal in inches (mm)		16 (400)	20 (500)	16 (400)	20 (500)	16 (400)	20 (500)	
Top pieces 28" (700 mm) high								
Height (H) inches (mm)	Packs of	28 (700)	–	–	–	–	–	Page
Depth (D) inches (mm)		9 (240)	–	–	–	–	–	
Model No.	1 pc(s).	6721.500	–	–	–	–	–	
Accessories								
Partial mounting plates, locatable into rails	Width 8" (200 mm)	1 pc(s).	6730.310	–	–	–	–	513
	Width 20" (500 mm)	1 pc(s).	6730.330	–	–	–	–	513
	Width 28" (700 mm)	1 pc(s).	6730.340	–	–	–	–	513
Rails for interior fitting	for width	4 pc(s).	5001.051	–	–	–	–	521
Desk units								
Height (H) inches (mm)	Packs of	9 (235)	9 (235)	–	–	–	–	Page
Depth (D) inches (mm)		28 (700)	28 (700)	–	–	–	–	
Model No.	1 pc(s).	6715.500	6711.500	–	–	–	–	
Accessories								
Rails for interior fitting	for width	4 pc(s).	5001.051	5001.051	–	–	–	521
Trim panel		1 pc(s).	–	–	5001.140	6730.110	–	114
Pedestals								
Height (H) inches (mm)	Packs of	27 (675)	27 (675)	27 (675)	27 (675)	27 (675)	27 (675)	Page
Depth (D) inches (mm)		16 (400)	20 (500)	16 (400)	20 (500)	16 (400)	20 (500)	
Model No.	1 pc(s).	6701.500	6705.500	6701.500	6705.500	6701.500	6705.500	
Accessories								
Base/plinth components Front and rear	Height 4" (100 mm)	1 set(s)	8601.800	8601.800	8601.800	8601.800	8601.800	427
	Height 8" (200 mm)	1 set(s)	8602.800	8602.800	8602.800	8602.800	8602.800	427
Base/Plinth Trim Panels, Side	Height 4" (100 mm)	1 set(s)	8601.040	8601.050	8601.040	8601.050	8601.040	428
	Height 8" (200 mm)	1 set(s)	8602.040	8602.050	8602.040	8602.050	8602.040	428
Cross member		2 pc(s).	8601.450	8601.450	8601.450	8601.450	8601.450	434
Base plates	1-part	1 pc(s).	5001.223	–	5001.223	–	5001.223	441
	2-part	1 pc(s).	5001.215	5001.215	5001.215	5001.215	5001.215	441
			+	+	+	+	+	
		1 pc(s).	5001.219	5001.223	5001.219	5001.223	5001.219	441
For other base plates, see page 447								
Rails for interior fitting	for height	4 pc(s).	5001.050	5001.050	5001.050	5001.050	5001.050	521
System chassis 17 x 73 mm	Depth	4 pc(s).	8612.140	8612.150	8612.140	8612.150	8612.140	522
Punched rail 18 x 38 mm	Depth	4 pc(s).	8612.240	8612.250	8612.240	8612.250	8612.240	525
Support strips	Depth	20 pc(s).	4694.000	4695.000	4694.000	4695.000	4694.000	525
Support strips	for door	20 pc(s).	4598.000	4598.000	4598.000	4598.000	4598.000	525
Cable clamp rail		1 pc(s).	5001.081	5001.081	5001.081	5001.081	5001.081	574
Wiring plan pockets, carbon steel		1 pc(s).	4118.500	4118.500	4118.500	4118.500	4118.500	497
TP aluminum strip		1 pc(s).	6731.120	6731.120	6731.120	6731.120	–	114
Lock systems								from page 480

47" (1200 mm) wide

								
Design		3-part		2-part		1-part		
Depth of pedestal in inches (mm)		16 (400)	20 (500)	16 (400)	20 (500)	16 (400)	20 (500)	
Top pieces 28" (700 mm) high								
Height (H) inches (mm)	Packs of	28 (700)	–	–	–	–	–	Page
Depth (D) inches (mm)		9 (240)	–	–	–	–	–	
Model No.	1 pc(s).	6722.500	–	–	–	–	–	
Accessories								
Partial mounting plates, locatable into rails	Width 8" (200 mm)	1 pc(s).	6730.310	–	–	–	–	513
	Width 20" (500 mm)	1 pc(s).	6730.330	–	–	–	–	513
	Width 28" (700 mm)	1 pc(s).	6730.340	–	–	–	–	513
Rails for interior fitting	for width	4 pc(s).	5001.053	–	–	–	–	521
Desk units								
Height (H) inches (mm)	Packs of	9 (235)	9 (235)	–	–	–	–	Page
Depth (D) inches (mm)		28 (700)	28 (700)	–	–	–	–	
Model No.	1 pc(s).	6716.500	6712.500	–	–	–	–	
Accessories								
Rails for interior fitting	for width	4 pc(s).	5001.053	5001.053	–	–	–	521
Trim panel		1 pc(s).	–	–	5001.160	6730.120	–	114
Pedestals								
Height (H) inches (mm)	Packs of	27 (675)	27 (675)	27 (675)	27 (675)	27 (675)	27 (675)	Page
Depth (D) inches (mm)		16 (400)	20 (500)	16 (400)	20 (500)	16 (400)	20 (500)	
Model No.	1 pc(s).	6702.500	6706.500	6702.500	6706.500	6702.500	6706.500	
Accessories								
Base/plinth components Front and rear	Height 4" (100 mm)	1 set(s)	8601.200	8601.200	8601.200	8601.200	8601.200	427
	Height 8" (200 mm)	1 set(s)	8602.200	8602.200	8602.200	8602.200	8602.200	427
Base/Plinth Trim Panels, Side	Height 4" (100 mm)	1 set(s)	8601.040	8601.050	8601.040	8601.050	8601.040	428
	Height 8" (200 mm)	1 set(s)	8602.040	8602.050	8602.040	8602.050	8602.040	428
Cross member		2 pc(s).	8601.450	8601.450	8601.450	8601.450	8601.450	434
Base plates ¹⁾	1-part	1 pc(s).	5001.225	–	5001.225	–	5001.225	441
	2-part	1 pc(s).	5001.217	5001.217	5001.217	5001.217	5001.217	441
			+	+	+	+	+	
	Individual	1 pc(s).	5001.221	5001.225	5001.221	5001.225	5001.221	441
For other base plates, see page 447								
Rails for interior fitting	for height	4 pc(s).	5001.050	5001.050	5001.050	5001.050	5001.050	521
System chassis 17 x 73 mm	Depth	4 pc(s).	8612.140	8612.150	8612.140	8612.150	8612.140	522
Punched rail 18 x 38 mm	Depth	4 pc(s).	8612.240	8612.250	8612.240	8612.250	8612.240	525
Support strips	Depth	20 pc(s).	4694.000	4695.000	4694.000	4695.000	4694.000	525
System chassis 17 x 73 mm	for door	4 pc(s).	8612.050	8612.050	8612.050	8612.050	8612.050	522
Support strips	for door	20 pc(s).	4596.000	4596.000	4596.000	4596.000	4596.000	525
Cable clamp rail		1 pc(s).	5001.083	5001.083	5001.083	5001.083	5001.083	574
Wiring plan pockets, carbon steel		1 pc(s).	4116.500	4116.500	4116.500	4116.500	4116.500	497
TP aluminum strip		1 pc(s).	6731.120	6731.120	6731.120	6731.120	–	114
Lock systems			from page 480					

¹⁾ With the two-door pedestal, the base opening is divided in two, and two sets of base plates are required

TP TopConsole System

63" (1600 mm) wide

¹⁾ With the two-door pedestal, the base opening is divided in two, and two sets of base plates are required



System Accessories Page 421 **Keyboards** Page 610 **Climate Control** Page 233 **Stainless Steel Consoles** Page 181

Material:

- Housing: Carbon steel 1.5 mm
- Door and console lid: Carbon steel, 2.0 mm, all-round foamed-in PU seal
- Mounting plate: Carbon steel 3.0 mm

Surface finish:

- Housing, cover and door: Dip-coat-primed, powder-coated on the outside, textured paint
- Mounting plate: Zinc-plated

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55 provided suitable base plates are selected

Protection category NEMA:

- NEMA 12 providing suitable base plates are selected

Supply includes:

- Housing, solid back and sides
- Door or double door at front, with locking rod
- Mounting Plate
- Cover hinged at rear, 2 stays with automatic locking. Unlatching automatically on the left, manually on the right
- Open base for individual cable entry

Note:

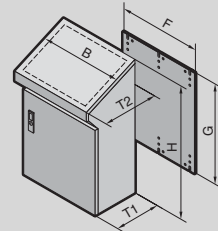
- With the two-door variant, the base opening is divided in two, and two sets of base plates are required.

Approvals:

- UL
- cUL

Technical details:

Available on the Internet



Height (H) inches (mm)	Packs of	38 (960)	38 (960)	38 (960)	38 (960)	Page
Width (B) inches (mm)		24 (600)	32 (800)	39 (1000)	47 (1200)	
Depth, bottom (T1) inches (mm)		16 (400)	16 (400)	16 (400)	16 (400)	
Depth, top (T2) inches (mm)		20 (520)	20 (520)	20 (520)	20 (520)	
Height of mounting plate (G) inches (mm)		35 (900)	35 (900)	35 (900)	35 (900)	
Width of mounting plate (F) inches (mm)		21 (530)	29 (730)	37 (930)	48 (1130)	
Model No.	1 pc(s).	6746.500	6748.500	6740.500	6742.500	
Door(s)		1	1	2	2	

Accessories						
Base/Plinth components, front and rear, 4" (100 mm)	1 set(s)	8601.600	8601.800	8601.000	8601.200	427
Base/Plinth trim panels, side, 4" (100 mm)	1 set(s)	8601.040	8601.040	8601.040	8601.040	428
Base/Plinth components, front and rear, 8" (200 mm)	1 set(s)	8602.600	8602.800	8602.000	8602.200	427
Base/Plinth trim panels, side, 8" (200 mm)	1 set(s)	8602.040	8602.040	8602.040	8602.040	428
Cross member	2 set(s)	8601.450	8601.450	8601.450	8601.450	434
Base plates		see page	see page	see page	see page	440
Rails for interior fitting	4 pc(s).	see page	5001.051	see page	see page	521
TS system chassis 17 x 73 mm		see page	see page	see page	see page	522
TS punched rail, 18 x 38 mm	4 pc(s).	8612.240	8612.240	8612.240	8612.240	525
Cable clamp rails	1 pc(s).	5001.080	5001.081	5001.082	5001.083	574
Wiring plan pockets, carbon steel	1 pc(s).	4116.500	4118.500	4115.500	4116.500	497
TP aluminum strip	1 pc(s).	6731.120	6731.120	6731.120	6731.120	114
Lock systems		from page	from page	from page	from page	480

TP TopConsole System

Accessories



Trim Panel

for pedestal base

To cover the entire roof opening when using pedestals on their own.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

For pedestal base		Model No.
Width inches (mm)	Depth inches (mm)	
24 (600)	16 (400)	5001.130
32 (800)		5001.140
47 (1200)		5001.160
63 (1600)		6730.030
24 (600)	20 (500)	6730.100
32 (800)		6730.110
47 (1200)		6730.120
63 (1600)		6730.130

Supply includes:

- Assembly components



TP Aluminum Strip

For retrofitting to:

- TP three-part/two-part
- TP one-piece console
- can be mounted on all enclosures/covers with 20 mm folded edge height (plate thickness max. 2 mm)

Length: 1750 mm

(easily cut to length for other dimensions)

Suitable for desk units and top pieces:

- 3 x 600 mm wide
- 2 x 800 mm wide
- 1 x 1000 mm wide + 1 x 600 mm wide
- 1 x 1200 mm wide
- 1 x 1600 mm wide

Length inches (mm)	Model No.
69 (1750)	6731.120

Material:

- Aluminum strip: Extruded aluminum section
- Cover caps: Plastic

Surface finish:

- Aluminum strip: Natural anodized

Color:

- Cover caps: RAL 7035

Supply includes:

- 1 aluminum section
- 6 plastic cover caps
- Drilling template
- Mounting accessories



System accessories Page 421 **Keyboards** Page 610 **Climate control** Page 233

Secure accommodation of all PC components, from monitors, to PCs and keyboards. For ultimate ease of operation in a contemporary design. Complete protection from humidity and dirt, temperature fluctuations and unauthorized access.

Material:

- Housing, door, mounting compartment, supports: Carbon steel
- Handles, decorative trim panels: Plastic
- Door trim panels: Aluminum
- Viewing window: Single-pane safety glass

Surface finish:

- Housing and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Mounting compartment, support: Powder-coated

Color:

- Housing, door, decorative trim panels, supports: RAL 7035
- Handle: Similar to RAL 9006
- Monitor field, door center section: RAL 7015

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

Supply includes:

- Housing, door, rear door
- Please note the product-specific scope of supply.

Approvals:

- UL
- cUL

Technical details:

Available on the Internet

Height inches (mm)	Packs of	63 (1600)	63 (1600)	63 (1600)	63 (1600)	63 (1600)	63 (1600)	Page
Width inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	
Depth inches (mm)		25 (636)	25 (636)	25 (636)	25 (636)	25 (636)	33 (836)	
Product-specific scope of supply								
Glazed door, top		■	■	■	■	–	■	
Keyboard drawer		■	–	–	■	■	■	
Component shelf		■	■	■	■	–	■	
Folding keyboard		–	■	–	–	–	–	
Desk section		–	–	■	–	–	–	
Mounting compartment, small		–	–	–	■	–	–	
Mounting compartment, large		–	–	–	–	■	–	
Model No.	1 pc(s).	5366.000	5366.100	5366.200	5366.300	5366.400	5368.000	
Max. keyboard dimensions H x W x D inches (mm)		3 x 19 x 10 (70 x 480 x 260)	2 x 20 x 10 (50 x 497 x 250) 2 x 20 x 8 (60 x 497 x 200)	2 x 21 x 7 40 x 540 x 175	3 x 19 x 10 (70 x 480 x 260)	3 x 19 x 10 (70 x 480 x 260)	3 x 19 x 10 (70 x 480 x 260)	
Accessories								
Base/plinth, static	1 pc(s).	8800.920	8800.920	8800.920	8800.920	8800.920	–	431
Base/plinth components, front and rear	4" (100 mm)	1 set(s)	8601.600	8601.600	8601.600	8601.600	8601.600	427
	8" (200 mm)	1 set(s)	8602.600	8602.600	8602.600	8602.600	8602.600	427
Base/plinth trim panels, side	4" (100 mm)	1 set(s)	8601.060	8601.060	8601.060	8601.060	8601.080	428
	8" (200 mm)	1 set(s)	8602.060	8602.060	8602.060	8602.060	8602.080	428
Partial mounting plates	1 pc(s).	8614.675	8614.675	8614.675	8614.675	8614.675	8614.675	512
Lock systems		from page	from page	from page	from page	from page	from page	479





Command Panels/Support Arm Systems/Stand Systems

Command Panel

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Command Panel with Handle Strips



Standard System Design and Function

Modern design, adapted to the CP 60/120/180 support arm system

The Ultimate in Comfort

- Integral interior mounting bracket with TS system punchings, suitable for TS system accessories
- Fast, safe and simple servicing access from the front or rear
- Lock with integrated run-out skid for easy locking

Added Value Built In

- Support arm connection suitable for one-person assembly
- Support arm connection Ø 130 mm, preformed off-center in the reinforcement plate, easily drilled out

Ergonomic Design

- Design strip including handle function
- Aluminum front panel easily removed for machining



Command Panel with Handle Strips



System accessories Page 421 Support arm systems Page 127 Stand systems Page 156 Command panel stainless steel Page 183

Material:

- Housing and door: Carbon steel
- Handle strips: Aluminum
- Front panel: Aluminum
- Cover caps: Plastic

Surface finish:

- Housing and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Handle strip: Natural anodized
- Front panel: Natural anodized

Color:

- Housing and door: RAL 7035
- Handle strip: Natural anodized
- Front panel: Natural anodized
- Cover caps: Similar to RAL 7024

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

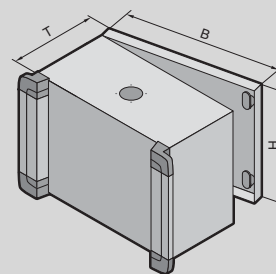
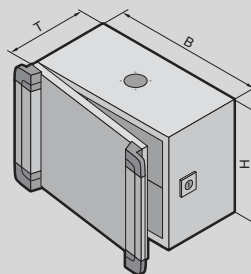
- NEMA 12

Supply includes:

- Housing with cut-out and reinforcement for support arm connection Ø 130 mm
- Front with maximum cut-out, covered with easily machinable 3 mm aluminum front panel
- Side handle strips and cover caps
- Cam lock with 3 mm double-bit insert
- Integral interior mounting bracket with TS system punch-ins

Note:

- The support arm connection and door catch may be swapped over by rotating the housing
- Optional: Support arm connection Ø 130 mm, preformed off-center in the reinforcement plate, easily drilled out



- Lock systems for servicing access from the front: 41 mm lock inserts, lock cylinder, plastic handles and T-handles, type C
- Lock systems for servicing access from the rear: 41 mm lock inserts, type A, lock cylinder, plastic handles and T-handles, type B

Approvals:

- CSA

Technical details:

Available on the Internet

Height inches (mm)		Packs of	8 (200)	12 (300)	12 (300)	15 (380)	15 (380)	Page
Width (B) inches (mm)			12 (300)	12 (300)	15 (380)	15 (380)	15 (380)	
Depth (T) inches (mm)			6 (155)	8 (210)	8 (210)	8 (210)	8 (210)	
Model No.		1 pc(s).	6320.000	6315.100	6315.200	6315.300	6320.300	
Weight lb (kg)			10 (4.5)	16 (7.0)	17 (7.5)	22 (9.8)	22 (9.8)	
Servicing access	From the rear		■	–	–	–	■	
	From the front		–	■	■	■	–	
Accessories								
TS System Chassis 17 x 73 mm		4 pc(s).	–	8612.130	8612.130	–	–	522
TS Punched Rail 18 x 38 mm			–	–	–	–	–	525
TS Support Strips		20 pc(s).	–	–	–	4594.000	4594.000	525
Mounting Bracket		4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	531
		4 pc(s).	6205.100	6205.100	6205.100	6205.100	6205.100	532
Mini-Comfort Handle			–	–	–	–	see page	485

Command Panel with Handle Strips

Height inches (mm)	Packs of	20 (500)	20 (500)	15 (380)	24 (600)	24 (600)	Page
Width (B) inches (mm)		20 (500)	20 (500)	24 (600)	24 (600)	24 (600)	
Depth (T) inches (mm)		8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	
Model No.	1 pc(s).	6315.400	6320.400	6320.500	6315.600	6320.600	
Weight lb (kg)		37 (16.8)	37 (16.8)	34 (15.4)	50 (22.8)	50 (22.8)	
Servicing access	From the rear	—	■	■	—	■	
	From the front	■	—	—	■	—	

Accessories							
TS System Chassis 17 x 73 mm	4 pc(s).	8612.150	8612.150	—	8612.160	8612.160	522
TS Punched Rail 18 x 38 mm	4 pc(s).	8612.250	8612.250	—	8612.260	8612.260	525
TS Support Strips	20 pc(s).	4695.000	4695.000	4594.000	4696.000	4696.000	525
Mounting Bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	531
	4 pc(s).	6205.100	6205.100	6205.100	6205.100	6205.100	532
Mini-Comfort Handle		—	see page	see page	—	see page	485



Support Arm System CP 60/120/180

See page 127

New

Command Panel for Desktop TFT up to 24"



System accessories Page 421 **Support arm systems** Page 127 **Stand systems** Page 156

For the installation of standard, commercially available desktop TFTs with a screen diagonal of up to 24" in the formats 16:9/16:10

Design:

- Viewing window with single-pane safety glass

Material:

- Housing and door: Carbon steel
- Handle strips: Aluminum
- Cover caps: Plastic
- Viewing window: Single-pane safety glass
- TFT holder: Carbon steel

Surface finish:

- Housing and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Handle strip: Natural anodized

Color:

- Housing and door: RAL 7035
- Handle strip: Natural anodized
- Cover caps: Similar to RAL 7024

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

Supply includes:

- Housing with cut-out and reinforcement for support arm connection Ø 130 mm
- Viewing window
- Holder for desktop TFT with VESA 75/100 locator
- Side handle strips and cover caps
- Rear door with r/h hinge
- Cam lock with 3 mm double-bit insert

Note:

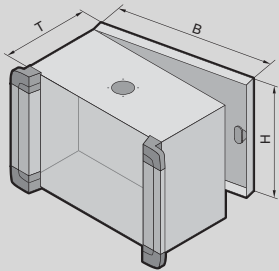
- The support arm connection and door catch may be swapped over by rotating the housing
- Optional: Support arm connection Ø 130 mm, preformed off-center in the reinforcement plate, easily drilled out
- Lock insert may be exchanged for 27 mm lock inserts, type A, lock cylinder, plastic handles and T-handles, type B

Approvals:

- CSA

Technical details:

Available on the Internet



Height inches (mm)	Packs of	18 (450)	Page
Width (B) inches (mm)		26 (650)	
Depth (T) inches (mm)		6 (155)	
Model No.	1 pc(s).	6321.000	
Weight lb (kg)		40 (18.0)	
Cam Lock		1	
Accessories			
Lock Systems		from page	478

PB Pushbutton Box



System accessories Page 421 **PB pushbutton box, stainless steel** Page 182

Designed to house commercially available pushbuttons, selector switches and pilot lights.

- Holes in 22.5 and 30 mm
- With 1 – 3 bore holes
- Simple, fast mounting

Material:

- Housing: Carbon steel
- Cover: Carbon steel, all-round seal

Color:

- RAL 7035

Supply includes:

- Pushbutton box
- Cover screws, captive
- Seal

Protection category NEMA:

- NEMA 12, 13

Approvals:

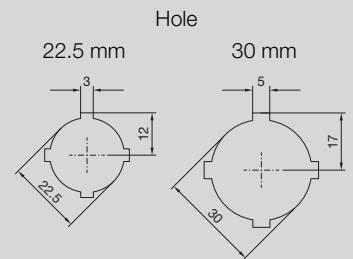
- UL/cUL
- File # E118617

Model no. overview:

See page 623

Technical details:

Available on the Internet



Holes are centered on the cover

Depth 88 mm

Model No.	8017.664	8017.665	8017.666	8017.667	Page
Model No. US	PB01225M1C	PB02225M1C	PB03225M1C	PB04225M1C	
Height inches (mm)	3.2 (82)	5.1 (130)	7.0 (177)	8.9 (225)	
Width inches (mm)	2.7 (69)	2.7 (69)	2.7 (69)	2.7 (69)	
Depth inches (mm)	3.5 (88)	3.5 (88)	3.5 (88)	3.5 (88)	
Weight lb (kg)	1.5 (0.7)	1.8 (0.8)	2.3 (1.0)	2.7 (1.2)	
Hole diameter mm	22.5	22.5	22.5	22.5	
Number of holes	1	2	3	4	
Accessories					
Oiltight Hole Seals	see page	see page	see page	see page	449
Wall Mounting Bracket	1580.000	1580.000	1580.000	1580.000	503

Depth 120 mm

Model No.	8017.685	8017.687	Page
Model No. US	PB01305X1C	PB03305X1C	
Height inches (mm)	4.0 (101)	8.0 (203)	
Width inches (mm)	4.0 (101)	4.0 (101)	
Depth inches (mm)	4.7 (120)	4.7 (120)	
Weight lb (kg)	2.3 (1.0)	3.8 (1.7)	
Hole diameter mm	30	30	
Number of holes	1	3	
Accessories			
Oiltight Hole Seals	see page	see page	449
Wall Mounting Bracket	1580.000	1580.000	503

Comfort Panel



System accessories Page 421 **Support arm systems** Page 127 **Stand systems** Page 156

Material:

- Housing: Extruded aluminum section
- Corner pieces: Die-cast zinc
- Corner protectors: Plastic

Color:

- Housing: Natural anodized
- Corner pieces: RAL 7035
- Corner protectors: Similar to RAL 7024

Protection category IP to IEC 60 529:

- IP 65

Protection category NEMA:

- NEMA 12

Supply includes:

- Seals and assembly components for front panels

Note:

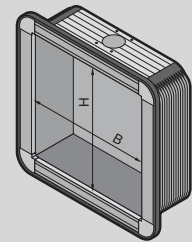
- The support arm connection may be swapped over by rotating the enclosure
- 8015.400 and 8015.401 come standard with aluminum front panel included

Approvals:

- UL

Technical details:

Available on the Internet



For front panel height (H) inches (mm)	Packs of	12 (300)	14 (350)	16 (400)	16 (400)	16 (400)	Page
For front panel width (B) inches (mm)		16 (400)	18 (450)	20 (520)	20 (520)	20 (520)	
Installation depth inches (mm)		6 (152)	6 (152)	3 (74)	6 (152)	8 (191)	
Model No.	1 pc(s).	8015.400	8015.401	6372.541	6372.542	6372.543	
Weight lb (kg)		22 (10)	25 (11.4)	17 (7.8)	26 (11.7)	30 (13.8)	

Version

Support arm connection □ 120 x 65 mm		–	–	■	–	–	
Support arm connection Ø 130 mm		■	■	–	■	■	
Hinged rear panel with screw lock		–	–	■	–	–	
Hinged rear panel with cam ¹⁾		■	■	–	■	–	
Screw-fastened rear panel ²⁾		–	–	–	–	■	

Accessories

Handle set	1 set(s)	6375.010	6375.010	–	–	–	605
Front panel	1 pc(s).	–	8015.416	6028.014	6028.014	6028.014	608
Mounting bracket for interior fitting	4 pc(s).	6205.100	6205.100	6205.100	6205.100	6205.100	532
Spring nut M5	50 pc(s).	6108.000	6108.000	6108.000	6108.000	6108.000	539
Grounding plate	1 pc(s).	2570.500	2570.500	2570.500	2570.500	2570.500	556

¹⁾ With 3 mm double-bit lock insert, may be exchanged for 41 mm lock inserts, type C, see page 488, plastic handles and T-handles, type C, see page 487.

²⁾ Housing hinged at the front with side double-bit lock insert, may be exchanged for 41 mm lock inserts, type C, see page 488, plastic handles and T-handles, type C, see page 487.

For front panel height (H) inches (mm)	Packs of	20 (500)	20 (500)	20 (500)	24 (600)	24 (600)	24 (600)	Page
For front panel width (B) inches (mm)		20 (520)	20 (520)	20 (520)	20 (520)	20 (520)	20 (520)	
Installation depth inches (mm)		3 (74)	6 (152)	8 (191)	3 (74)	6 (152)	8 (191)	
Model No.	1 pc(s).	6372.551	6372.552	6372.553	6372.561	6372.562	6372.563	
Weight lb (kg)		19 (8.8)	27 (12.3)	34 (15.2)	21 (9.7)	30 (13.5)	37 (16.7)	

Version

Support arm connection □ 120 x 65 mm		■	—	—	■	—	—	
Support arm connection Ø 130 mm		—	■	■	—	■	■	
Hinged rear panel with screw lock		■	—	—	■	—	—	
Hinged rear panel with cam ¹⁾		—	■	—	—	■	—	
Screw-fastened rear panel ²⁾		—	—	■	—	—	■	

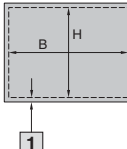
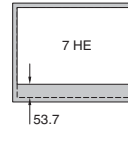
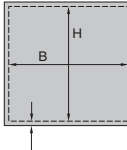
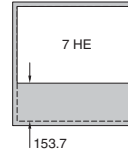
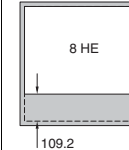
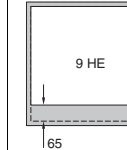
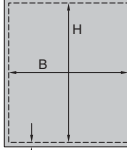
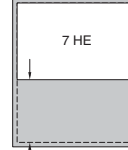
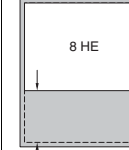
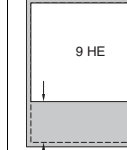
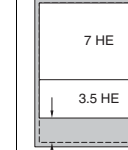
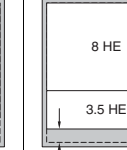
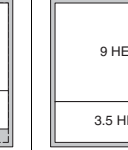
Accessories

Handle set		—	—	—	—	—	—	
Front panel	1 pc(s).	6028.015	6028.015	6028.015	6028.016	6028.016	6028.016	608
Mounting bracket for interior fitting	4 pc(s).	6205.100	6205.100	6205.100	6205.100	6205.100	6205.100	532
Spring nut M5	50 pc(s).	6108.000	6108.000	6108.000	6108.000	6108.000	6108.000	539
Grounding plate	1 pc(s).	2570.500	2570.500	2570.500	2570.500	2570.500	2570.500	556

¹⁾ With 3 mm double-bit lock insert, may be exchanged for 41 mm lock inserts, type C, see page 488, plastic handles and T-handles, type C, see page 487

²⁾ Housing hinged at the front with side double-bit lock insert, may be exchanged for 41 mm lock inserts, type C, see page 488, plastic handles and T-handles, type C, see page 487

Configuration Examples

Front panel height inches (mm)	Cut-out dimensions						
16 (400)							
H = 14" (364 mm) W = 19" (484 mm) 1 = all-round 1" (18 mm) for fastening the adapter plate							
20 (500)							
H = 18" (464 mm) W = 19" (484 mm) 1 = all-round 1" (18 mm) for fastening the adapter plate							
24 (600)							
H = 22" (564 mm) W = 19" (484 mm) 1 = all-round 1" (18 mm) for fastening the adapter plate							

Free space, can be used for customer-specific equipment, e.g. switch racks, etc.

HE = U
B = Width (W)

Rittal – The System.

Faster – better – everywhere.



Support Arm Systems

CP 40 Support Arm System

Component Overview, Steel	129
CP 40 Support Section, Steel	130
CP 40 Components, Steel	131
Component Overview, Stainless Steel.....	132
CP 40 Support Section, Stainless Steel	132
CP 40 Components, Stainless Steel	133

CP 60 Support Arm System

Component Overview	137
CP 60 Support Section.....	138
CP 60 Components.....	139

CP 120 Support Arm System

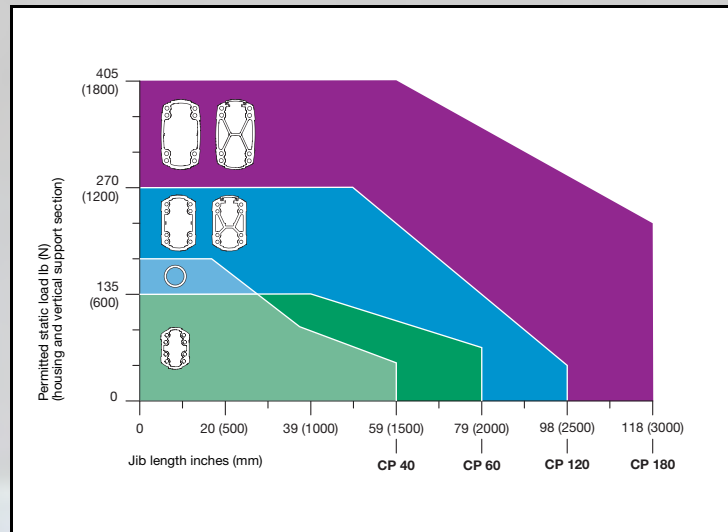
Component Overview	141
CP 120 Support Section.....	142
CP 120 Components.....	143

CP 180 Support Arm System

Component Overview	145
CP 180 Support Section.....	146
CP 180 Components.....	147

Load Data

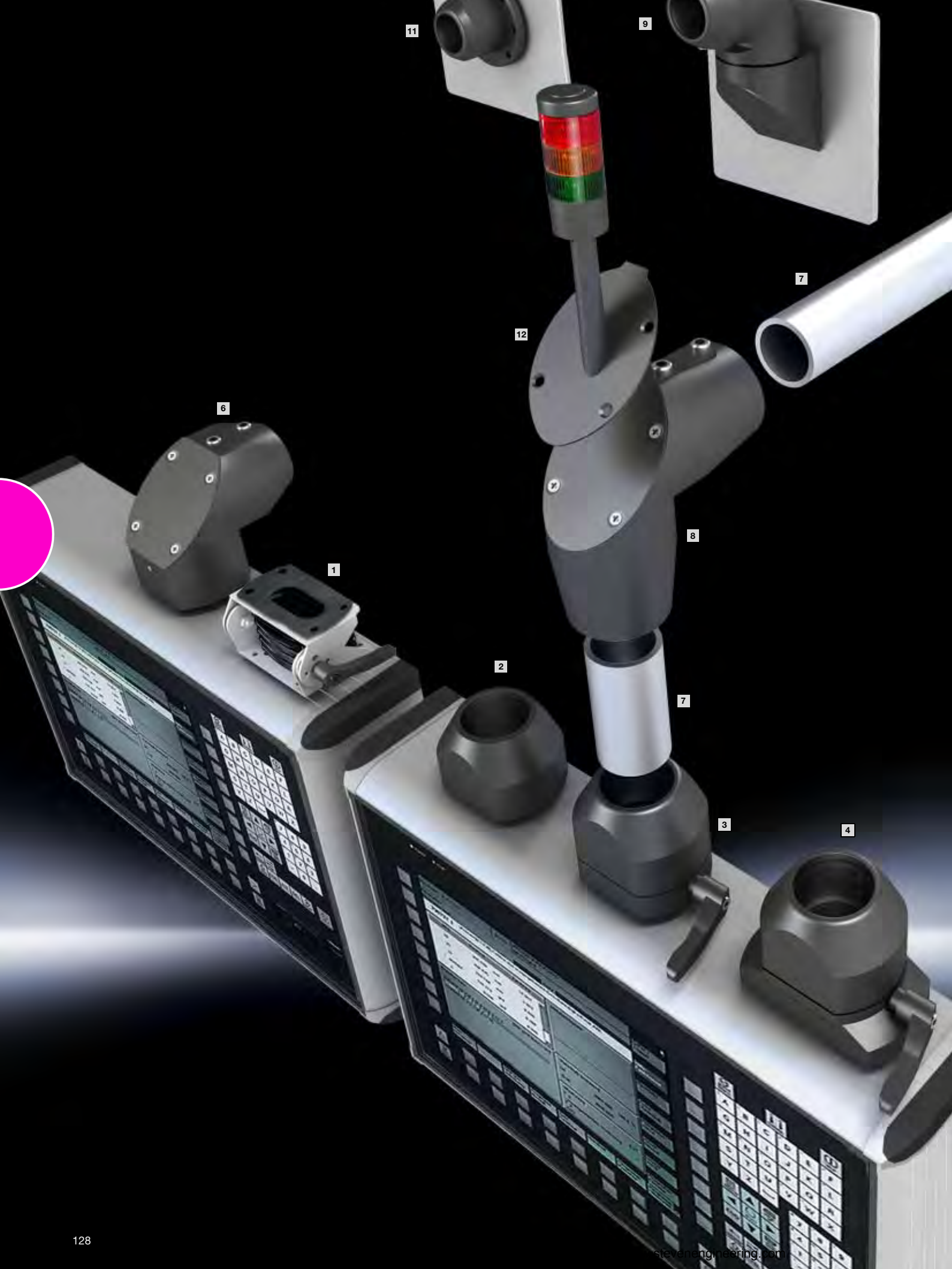
Support arm systems compared



Support Arm Configurator

The support arm configurator utilizes user-specific parameters to select the correct support arm system.

Further information is available on the Rittal website



11

9

7

12

6

1

2

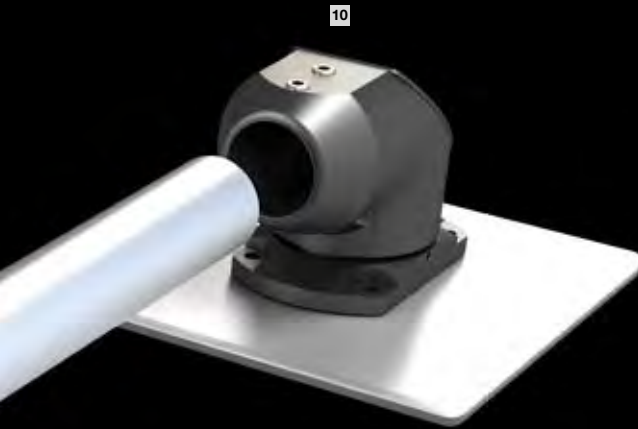
8

7

3

4

CP 40 Support Arm System, Steel

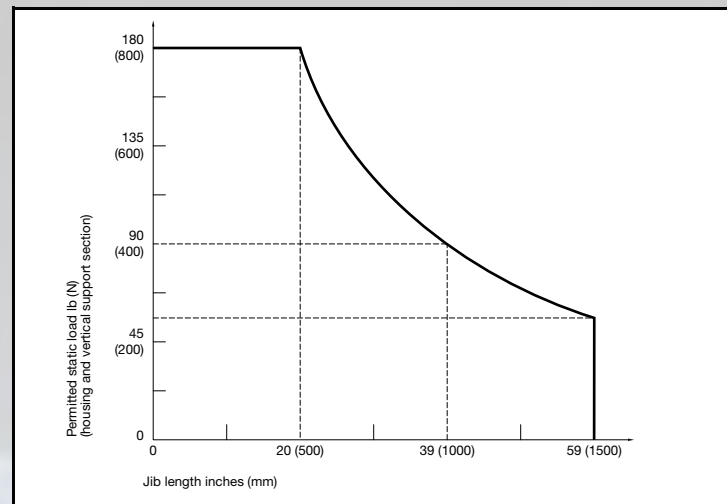


Component Overview

- 1 Tilting Adapter +100/-60° for Support Arm Connection
□ 120 x 65 mm/□ 90 x 71 mm (6206.460)
- 2 CP 40 Attachment, Steel, for □ 90 x 71 mm Support Arm Connection
(6501.070)
- 3 CP 40 Coupling, Steel, for □ 90 x 71 mm Support Arm Connection
(6501.050)
- 4 CP 40 Coupling, Steel, for □ 120 x 65 mm Support Arm Connection
(6501.130)
- 5 Vesa 75/100 Connecting Console for □ 120 x 65 mm
Support Arm Connection (6206.480)
- 6 CP 40 Angle Coupling, 90°, Steel
(6501.120)
- 7 CP 40 Support Section, Steel
(6501.000, 6501.020)
- 8 CP 40 90° Angle Piece, Steel
(6501.140)
- 9 CP 40 Wall Joint, Steel
(6501.150)
- 10 CP 40 Top-Mounted Joint, Steel
(6501.160)
- 11 CP 40 Wall/Base Mount, Steel
(6501.110)
- 12 CP 40 Mounting Components, Steel for Signal Pillar
(2375.030)

Load Data

When using a steel CP 40 support arm system in conjunction with a CP 60 support arm system (arranged horizontally), the load diagram of the CP 60 system takes precedence.



CP 40 Support Arm System, Steel



Comfort panel Page 124 Command panel with handle strips Page 120

CP 40 Support Section, Steel
Attached to the connection components with 2 clamping screws.

Dimensions:

- External diameter: 48.3 mm
- Wall thickness: 4.0 mm

Material:

- Steel pipe, powder-coated

Color:

- RAL 7035

Supply includes:

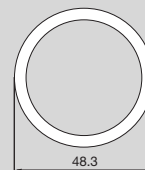
- Support section, steel

Note:

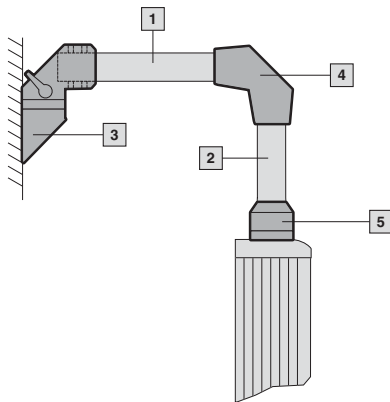
- Stainless steel, see page 132

Technical details:

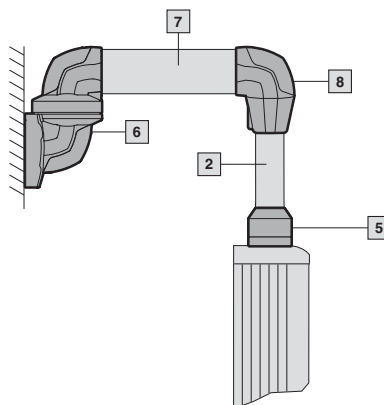
Available on the Internet



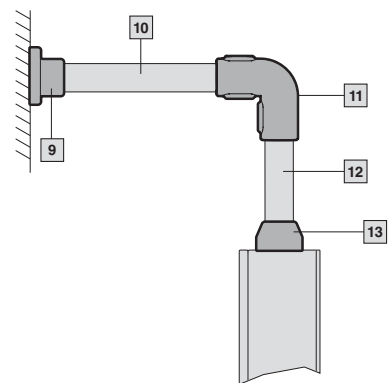
Integral adjustment facility



In combination with CP 60 support arm system

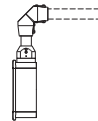
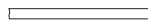
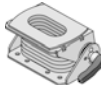
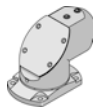


Also available in stainless steel, see page 132



- [1] CP 40 Support Section, Steel, 1000 mm (6501.020)
- [2] CP 40 Support Section, Steel, 500 mm (6501.000)
- [3] CP 40 Wall Joint, Steel (6501.150)
- [4] 90° CP 40 Angle Piece, Steel (6501.140)
- [5] CP 40 Coupling, Steel (6501.050)
- [6] CP 60 Wall Joint (6206.740)
- [7] CP 60 Support Section, 1000 mm (6206.100)
- [8] 90° Angle Adapter for CP 60/40 Support Arm Combination (6206.640)
- [9] Wall/Base Mount, Rigid, CP 40, Stainless Steel (6663.000)
- [10] CP 40 Support Section, Stainless Steel, 1000 mm (6660.010)
- [11] 90° CP 40 Angle Piece, Stainless Steel (6664.300)
- [12] CP 40 Support Section, Stainless Steel, 500 mm (6660.050)
- [13] CP 40 Housing Coupling, Stainless Steel (6664.000)

CP 40 Support Arm System, Steel

		Rotating/tilting	Rigid	Length inches (mm)	Weight lb (kg)	Color RAL			
							Model No.		
	Tilting Adapter +100/-60° for Support Arm Connection □ 120 x 65 mm/□ 90 x 71 mm								
see page 154	■	-	-	1.8 (0.8)	7024	6206.460	-	-	
	CP 40 Attachment, Steel, for □ 90 x 71 mm Support Arm Connection								
	-	■	-	2.2 (1.0)	7024	6501.070	-	-	
	CP 40 Coupling, Steel, for □ 90 x 71 mm Support Arm Connection								
	■	-	-	2.4 (1.1)	7024	6501.050	-	-	
	CP 40 Coupling, Steel, for □ 120 x 65 mm Support Arm Connection								
	■	-	-	3.3 (1.5)	7024	6501.130	-	-	
	VESA 75/100 Connecting Console for □ 120 x 65 mm Support Arm Connection								
see page 148	-	■	-	2.4 (1.1)	7035/ 7024	6206.480	-	-	
	90° CP 40 Angle Coupling, Steel, for □ 90 x 71 mm Support Arm Connection								
	■	-	-	3.5 (1.6)	7024	6501.120	-	-	
	CP 40 Support Section, Steel								
	-	-	20 (500)	4.6 (2.1)	7035		6501.000		
			39 (1000)	9.2 (4.2)	7035		6501.020		
	CP 40 90° Angle Piece, Steel								
	-	■	-	2.4 (1.1)	7024	6501.140	-	6501.140	
	CP 40 Top-Mounted Joint, Steel								
	■	-	-	4.0 (1.8)	7024	-	-	6501.160	
	CP 40 Wall Joint, Steel								
	■	-	-	4.8 (2.2)	7024	-	-	6501.150	
	CP 40 Wall/Base Mount, Steel								
	-	■	-	1.5 (0.7)	7024	-	-	6501.110	
	CP 40 Mounting Component, Steel for Signal Pillar								
see page 620	-	■	-	0.7 (0.3)	7024	2375.030	-	-	
Accessories									
90° Angle Adapter for CP 60/40 Support Arm Combination 6206.640									
								see page 150	

CP 40 Support Arm System, Stainless Steel



Command panel stainless steel Page 183 CP 40 support section, steel Page 129

CP 40 support section, stainless steel

Attached to the connection components with 2 clamping screws.

Dimensions:

- External diameter: 48.3 mm
- Wall thickness: 3.6 mm

Material:

- Stainless steel

Surface finish:

- Brushed, grain 240 (support section and wall console only)

Protection category IP to DIN 40 050-9:

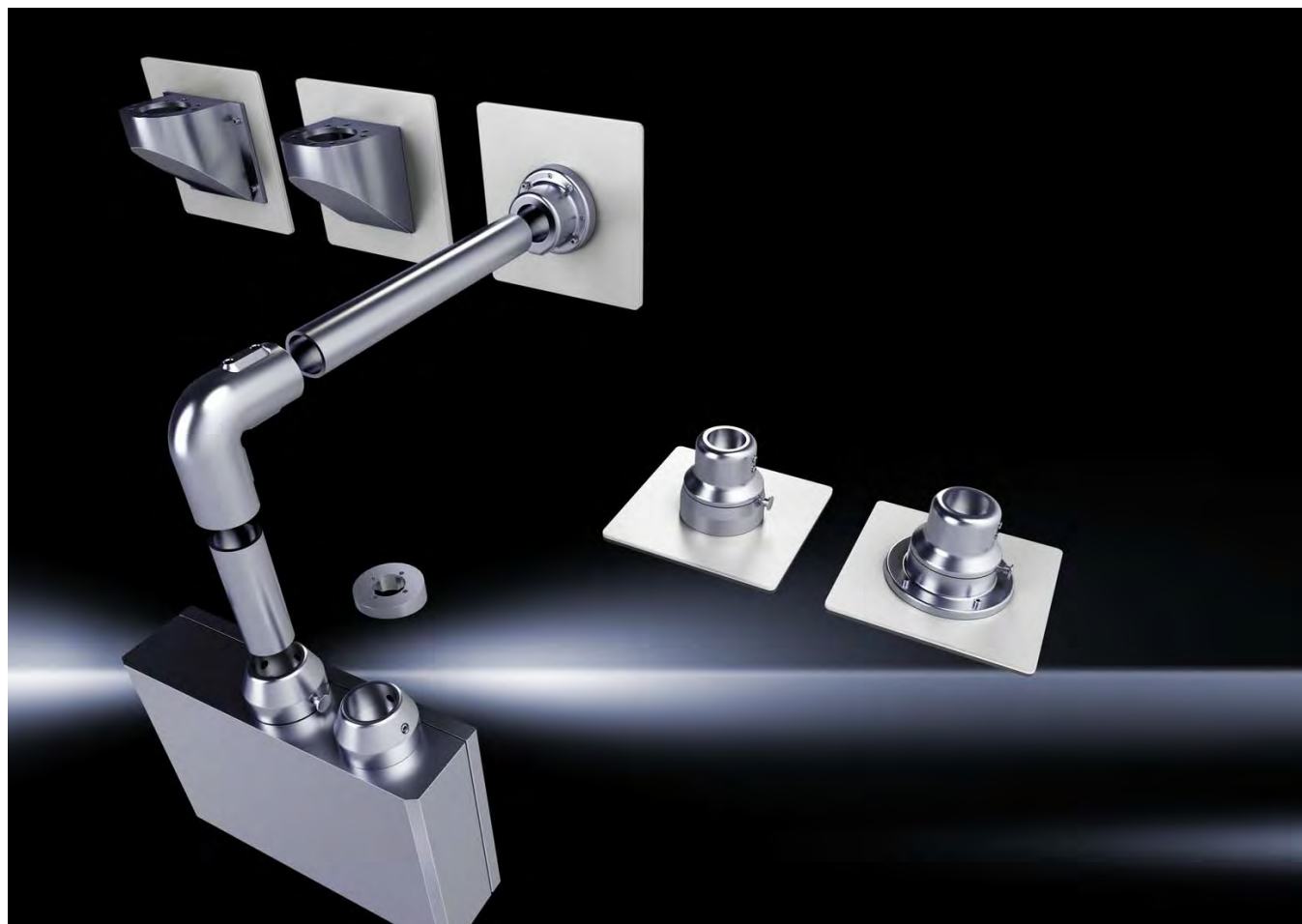
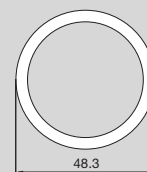
- IP 69K (resistant to high-pressure cleaning)

Supply includes:

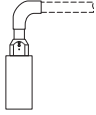
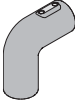
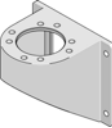
- Support section, stainless steel

Technical details:

Available on the Internet

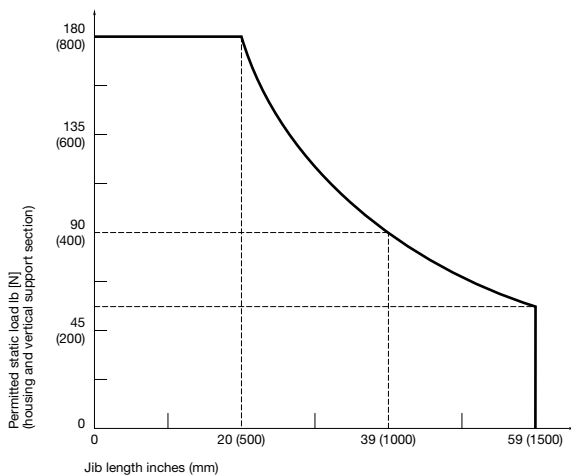


CP 40 Support Arm System, Stainless Steel

	Rotating/tilting	Rigid	Length inches (mm)	Weight lb (kg)	Material	Housing section 	Center section 	Wall section 
						Model No.		
	-	■	-	1.5 (0.7)	1.4305 (AISI 303)	6664.100	-	-
	-	■	-	2.9 (1.3)	1.4305 (AISI 303)	6664.500	-	-
	■	-	-	2.4 (1.1)	1.4305 (AISI 303)	6664.000	-	-
	-	■	20 (500) 39 (1000)	4.4 (2.0) 8.6 (3.9)	1.4301 (AISI 304)	6660.050 6660.010		
	-	■	-	2.9 (1.3)	1.4305 (AISI 303)	6664.300	-	6664.300
	-	■	-	3.8 (1.7)	1.4305 (AISI 303)	-	-	6663.000
	■	-	-	8.6 (3.9) 9.9 (4.5)	1.4305 (AISI 303)	-	-	6663.500 6663.400
	-	■	-	3.3 (1.5) 4.0 (1.8)	1.4301 (AISI 304)	-	-	6665.000 6665.500

Load Data

Permitted load depending on system assembly



CP 60/120/180 Support Arm System



Standard Engineering

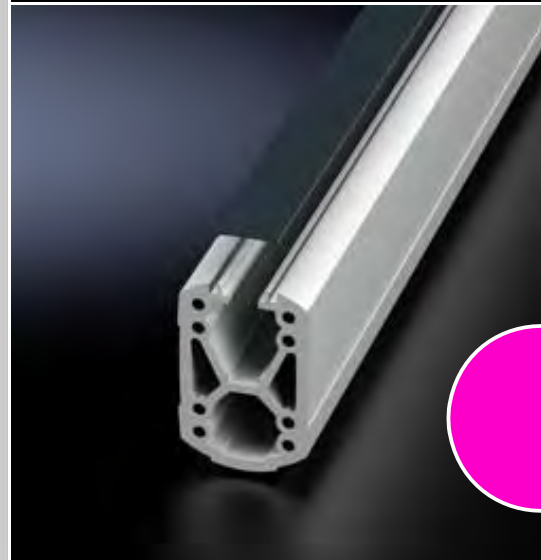
- All load levels from 600 to 1,800 N
- One system
- System can be easily moved to the vertical to reduce cost and weight
- Consistent combination options

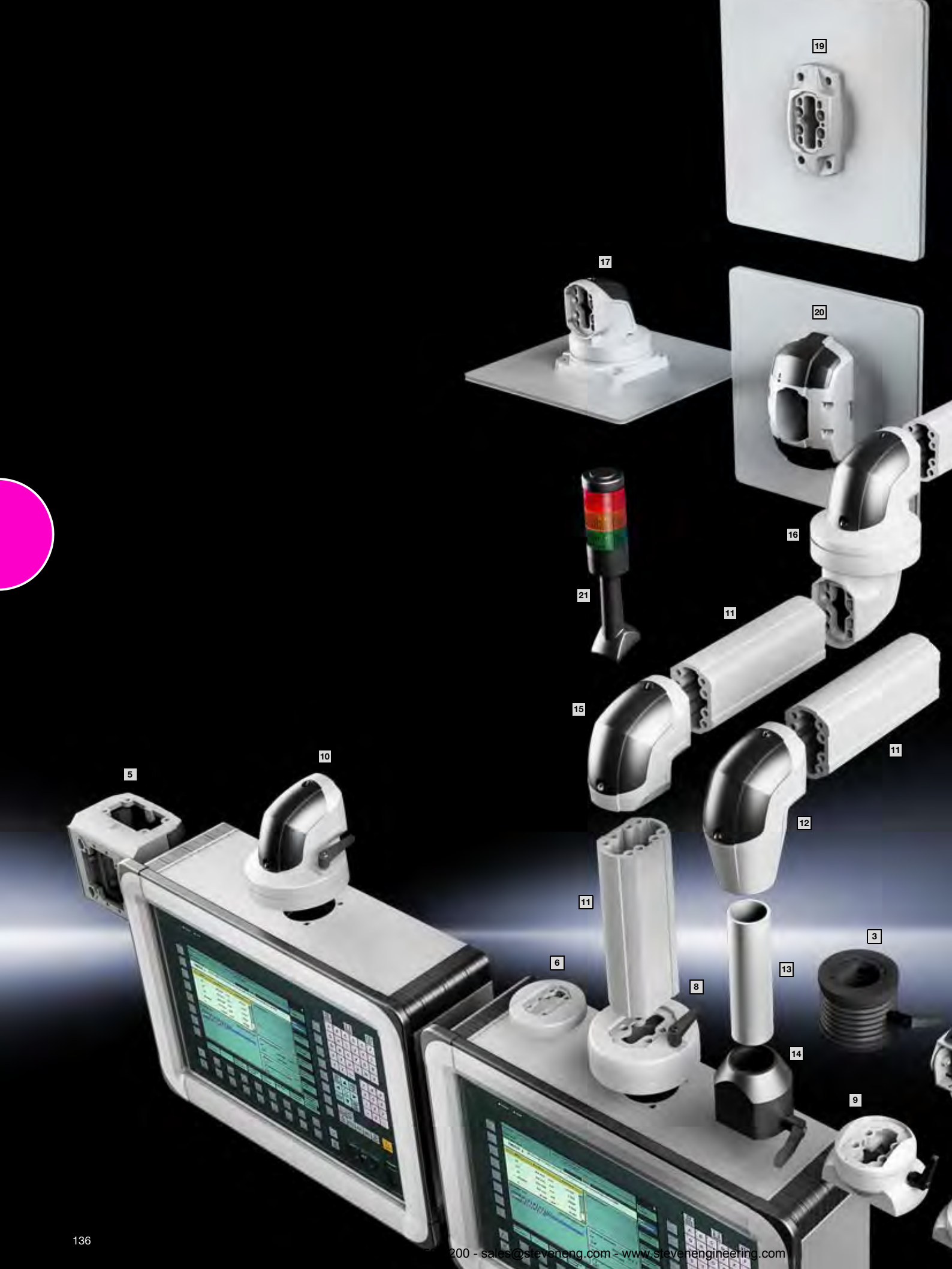
Multifunctional Assembly

- Standard adjustment principle, can also be done retrospectively without any disassembly
- Perfect limitation of rotation range
- Simple, one-person installation
- Sections easily trimmed to length

Efficient Cable Management

- Cross-section sufficient for large connectors
- Data and power cables easily separated
- Flexible cable entry and routing options
- Automatic and consistent equipotential bonding of all support arm components
- Open support section simplifies access for extensions and servicing purposes





CP 60 Support Arm System

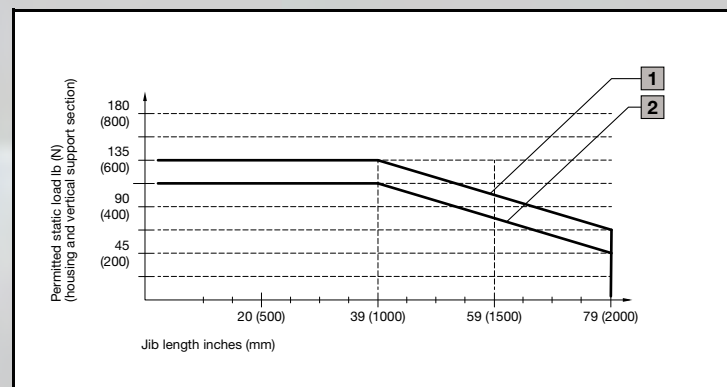
Component Overview

- 1 10° Tilting Adapter for Ø 130 mm Support Arm Connection (6206.400)
- 2 10° Tilting Adapter for □ 120 x 65 mm Support Arm Connection (6206.440)
- 3 +/-45° Tilting Adapter for Ø 130 mm Support Arm Connection (6206.420)
- 4 +100/-60° Tilting Adapter for □ 120 x 65 mm Support Arm Connection (6206.460)
- 5 VESA 75/100 Connecting Console for □ 120 x 65 mm Support Arm Connection (6206.480)
- 6 CP 60 Attachment for Ø 130 mm Support Arm Connection (6206.320)
- 7 CP 60 Attachment for □ 120 x 65 mm Support Arm Connection (6206.360)
- 8 CP 60 Coupling for Ø 130 mm Support Arm Connection (6206.300)
- 9 CP 60 Coupling for □ 120 x 65 mm Support Arm Connection (6206.340)
- 10 CP 60 90° Angle Coupling for Ø 130 mm Support Arm Connection (6206.380)
- 11 CP 60 Support Section, Closed (6206.025, 6206.050, 6206.100, 6206.200)
- 12 90° Angle Adapter for CP 60/40 Support Arm Combination (6206.640)
- 13 CP 40 Support Section, Steel (6501.000)
- 14 CP 40 Coupling, Steel, for □ 90 x 71 mm Support Arm Connection (6501.050)
- 15 CP 60 90° Angle Piece (6206.600)
- 16 CP 60 Intermediate Joint (6206.620)
- 17 CP 60 Top-Mounted Joint, Horizontal Outlet (6206.700)
- 18 CP 60 Wall Joint, Horizontal Outlet (6206.740)
- 19 CP 60 Wall/Base Mount, Small (6206.820)
- 20 CP 60 Wall/Base Mount, Large (6206.800)
- 21 CP 60 Mounting Component for Signal Pillar (6206.900)



Load Data

Permitted load depending on system assembly

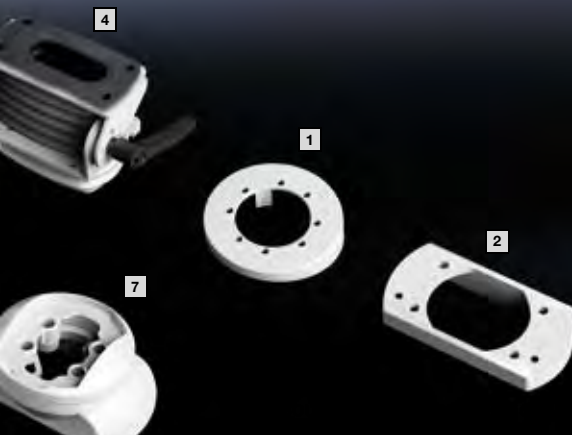


1 System assembly without intermediate joint 6206.620

2 System assembly with intermediate joint 6206.620

Note:

- Do not use wall/base mount, small 6206.820 together with intermediate joint 6206.620!
- Only use one intermediate joint 6206.620 per system!



CP 60 Support Arm System



Comfort panel Page 124 Command panel with handle strips Page 120

CP 60 support section

Attached to the connection components with 4 self-tapping screws in the screw channel. May be cut to any length, no thread-tapping required. Closed cable duct with a large cross-section.

Dimensions:

- External dimensions: 59 x 85 mm

Material:

- Support section: Extruded aluminum section

Color:

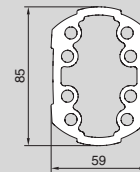
- Support section: RAL 7035

Supply includes:

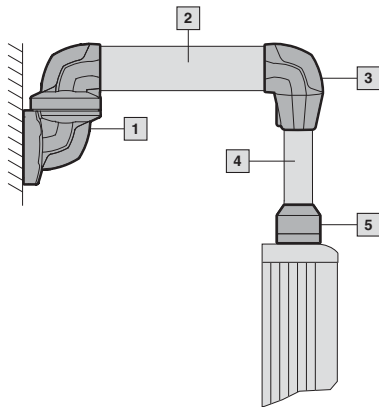
- Support section

Technical details:

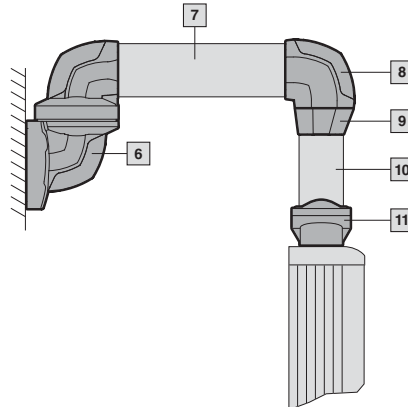
Available on the Internet



In combination with CP 40 support arm system

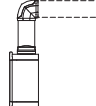
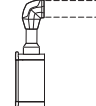
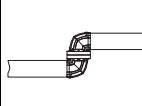
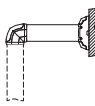
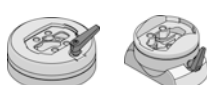
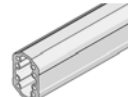


In combination with CP 120 support arm system

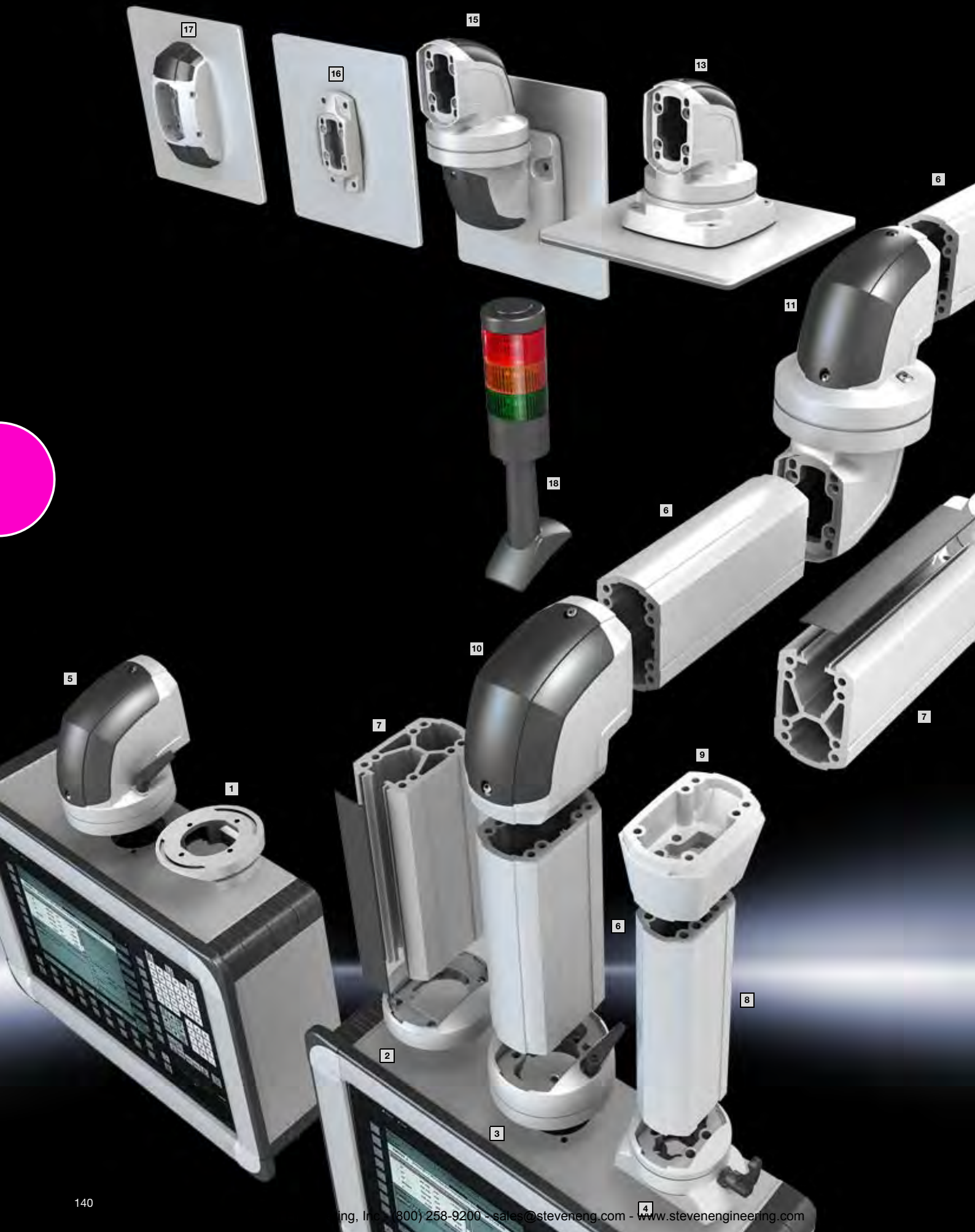


- [1] CP 60 Wall Joint, Horizontal Outlet (6206.740)
- [2] CP 60 Support Section, 1000 mm (6206.100)
- [3] 90° Angle Adapter for CP 60/40 Support Arm Combination (6206.640)
- [4] CP 40 Support Section, Steel, 500 mm (6501.000)
- [5] CP 40 Coupling, Steel, for □ 120 x 65 mm Support Arm Connection (6501.130)
- [6] CP 120 Wall Joint, Horizontal Outlet (6212.740)
- [7] CP 120 Support Section, 1000 mm (6212.100)
- [8] 90° CP 120 Angle Piece (6212.600)
- [9] Adapter for CP 120/60 Support Arm Combination (6212.640)
- [10] CP 60 Support Section, 500 mm (6206.050)
- [11] CP 60 Coupling, Steel, for □ 120 x 65 mm Support Arm Connection (6206.340)

CP 60 Support Arm System

		Rotating/tilting	Rigid	Length inches (mm)	Weight lb (kg)	Color RAL	Housing section CP 60	Housing section CP 60/40	Center section CP 60	Wall section CP 60
										
							Model No.			
	10° tilting adapter for support arm connection									
Ø 130 mm	-	■	-	1.3 (0.6)	7035	6206.400	-	-	-	
□ 120 x 65 mm	-	■	-	0.9 (0.4)	7035	6206.440	-	-	-	
	Tilting adapter +/-45°/Tilting adapter +100°/-60° for support arm connection see page 153/154									
Ø 130 mm	■	-	-	2.6 (1.2)	7024	6206.420	-	-	-	
□ 120 x 65 mm	■	-	-	1.8 (0.8)	7035/7024	6206.460	6206.460	-	-	
□ 90 x 71 mm	■	-	-	1.8 (0.8)	7024	-	6206.460	-	-	
	VESA 75/100 connection console for support arm connection see page 148									
□ 120 x 65 mm	-	■	-	2.4 (1.1)	7035/7024	6206.480	-	-	-	
	CP 60/40 attachment for support arm connection									
Ø 130 mm	-	■	-	1.5 (0.7)	7035	6206.320	-	-	-	
□ 120 x 65 mm	-	■	-	2.2 (1.0)	7035	6206.360	-	-	-	
□ 90 x 71 mm	-	■	-	2.2 (1.0)	7024	-	6501.070	-	-	
	CP 60/40 coupling for support arm connection									
Ø 130 mm	■	-	-	4.6 (2.1)	7035	6206.300	-	-	-	
□ 120 x 65 mm	■	-	-	2.6 (1.2)	7035	6206.340	6501.130	-	-	
□ 90 x 71 mm	■	-	-	2.4 (1.1)	7024	-	6501.050	-	-	
	CP 60/40 90° angle coupling for support arm connection									
Ø 130 mm	■	-	-	4.0 (1.8)	7035/7024	6206.380	-	-	-	
	CP 60/40 support section									
Closed	-	-	10 (250) 20 (500) 39 (1000) 79 (2000)	2.8 (1.25) 5.6 (2.5) 11.0 (5.0) 22.0 (10.0)	7035	6206.025 6206.050 6206.100 6206.200	- 6501.000 6501.020 -	6206.025 6206.050 6206.100 6206.200	6206.025 6206.050 6206.100 6206.200	
	90° angle adapter for CP 60/40 support arm combination see page 150									
	-	■	-	2.2 (1.0)	7035/7024	-	6206.640	-	-	
	90° CP 60 angle piece									
	-	■	-	1.1 (0.5)	7035/7024	6206.600	-	-	6206.600	
	CP 60 intermediate joint									
	■	-	-	4.9 (2.2)	7035/7024	-	-	6206.620	-	
	CP 60 top-mounted joint									
Horizontal outlet	■	-	-	4.9 (2.2)	7035/7024	-	-	-	6206.700	
	CP 60 wall joint									
Horizontal outlet	■	-	-	6.3 (2.85)	7035/7024	-	-	-	6206.740	
	CP 60 wall/base mount, small									
	-	■	-	0.8 (0.35)	7035	-	-	-	6206.820	
	CP 60 wall/base mount, large									
	-	■	-	3.1 (1.4)	7035/7024	-	-	-	6206.800	
	CP 60 mounting component for signal pillar see page 620									
	-	■	-	0.2 (0.1)	7024	6206.900	6206.900	6206.900	6206.900	
Accessories										
CP 120/60 adapter, Ø 130 mm, for □ 120 x 65 mm 6212.500										see page 149

¹⁾ Weight data and graphics for CP 40, see page 131



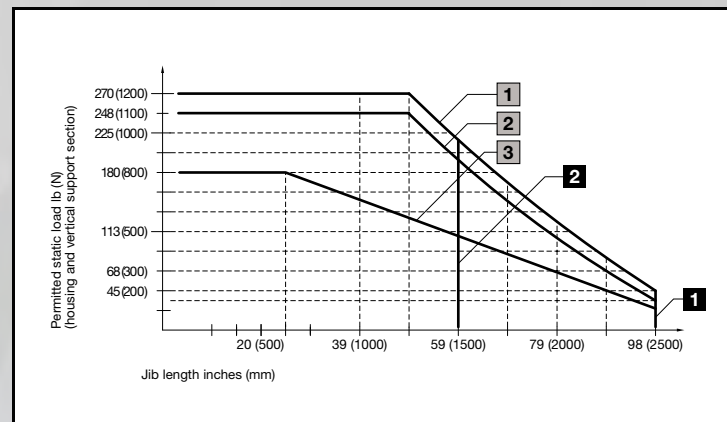
CP 120 Support Arm System

Component Overview

- 1** CP 120 Adapter from Support Arm Connection Ø 130 mm to □ 120 x 65 mm (6212.500)
- 2** CP 120 Attachment for Ø 130 mm Support Arm Connection (6212.320)
- 3** CP 120 Coupling for Ø 130 mm Support Arm Connection (6212.300)
- 4** CP 60 Coupling for □ 120 x 65 mm Support Arm Connection (6206.340)
- 5** CP 120 90° Angle Coupling for Ø 130 mm Support Arm Connection (6212.380)
- 6** CP 120 Support Section, Closed (6212.025, 6212.050, 6212.100, 6212.200)
- 7** CP 120 Support Section, Open (6212.150, 6212.110, 6212.210)
- 8** CP 60 Support Section, Closed (6206.025, 6206.050, 6206.100, 6206.200)
- 9** Adapter for CP 120/60 Support Arm Combination (6212.640)
- 10** CP 120 90° Angle Piece (6212.600)
- 11** CP 120 Intermediate Joint (6212.620)
- 12** CP 120 Top-Mounted Joint, Vertical Outlet (6212.720)
- 13** CP 120 Top-Mounted Joint, Horizontal Outlet (6212.700)
- 14** CP 120 Wall Joint, Vertical Outlet (6212.760)
- 15** CP 120 Wall Joint, Horizontal Outlet (6212.740)
- 16** CP 120 Wall/Base Mount, Small (6212.820)
- 17** CP 120 Wall/Base Mount, Large (6212.800)
- 18** CP 120/180 Mounting Component for Signal Pillar (6212.900)

Load Data

Permitted load depending on system assembly



- 1** System assembly without 6212.620 intermediate joint, with open or closed support section
- 2** System assembly with 6212.620 intermediate joint and closed support section
- 3** System assembly with 6212.620 intermediate joint and open support section
- 1** Maximum system length 2500 mm in the case of systems with horizontal outlet at start of system.
- 2** Maximum system length 1500 mm in the case of systems with vertical outlet at start of system. The overall height in the case of a vertical system start must not exceed 500 mm.

Note:

- Do not use wall/base mount, small 6212.820 together with intermediate joint 6212.620!
- Only use one intermediate joint 6212.620 per system!

CP 120 Support Arm System



Comfort panel Page 124 Command panel with handle strips Page 120 Command panel for desktop TFT Page 122

CP 120 support section

Attached to the connection components with 4 self-tapping screws in the screw channel. May be cut to any length, no thread-tapping required. Closed cable duct with a large cross-section. Open cable duct for easy servicing access and for pre-assembled cables with connectors; lockable via cover profile.

X-shaped profiling for greater load capacity, large cable routing channels. Upper channel suitable for cables with large connectors (e.g. DVI or VGA) and available/usable throughout the system.

Dimensions:

- External dimensions: 75 x 120 mm

Material:

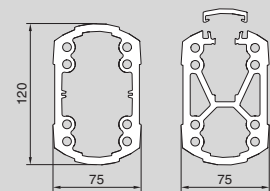
- Support section: Extruded aluminum section

Color:

- Support section: RAL 7035

Supply includes:

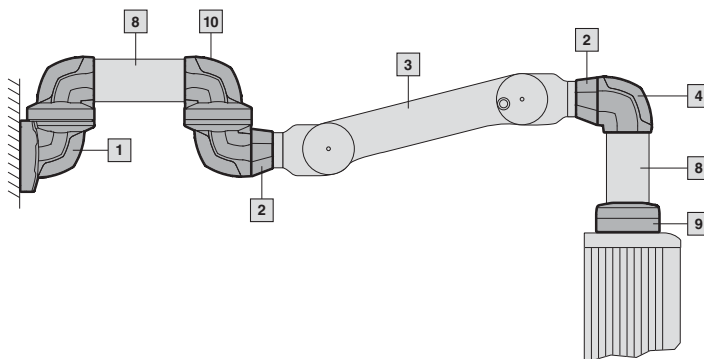
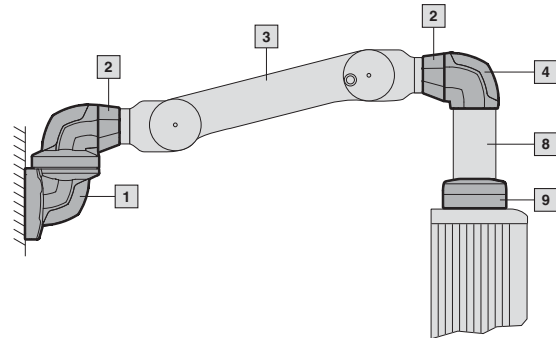
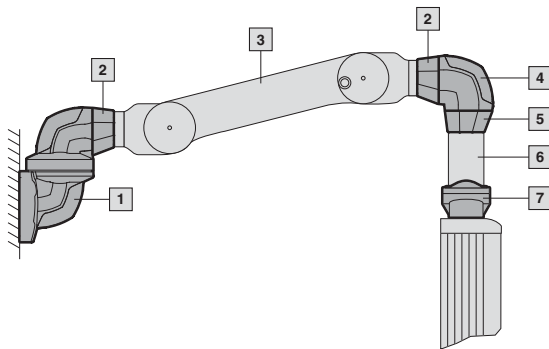
- Support section



Technical details:

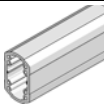
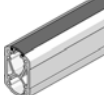
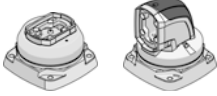
Available on the Internet

Combinations with support arm, height adjustable

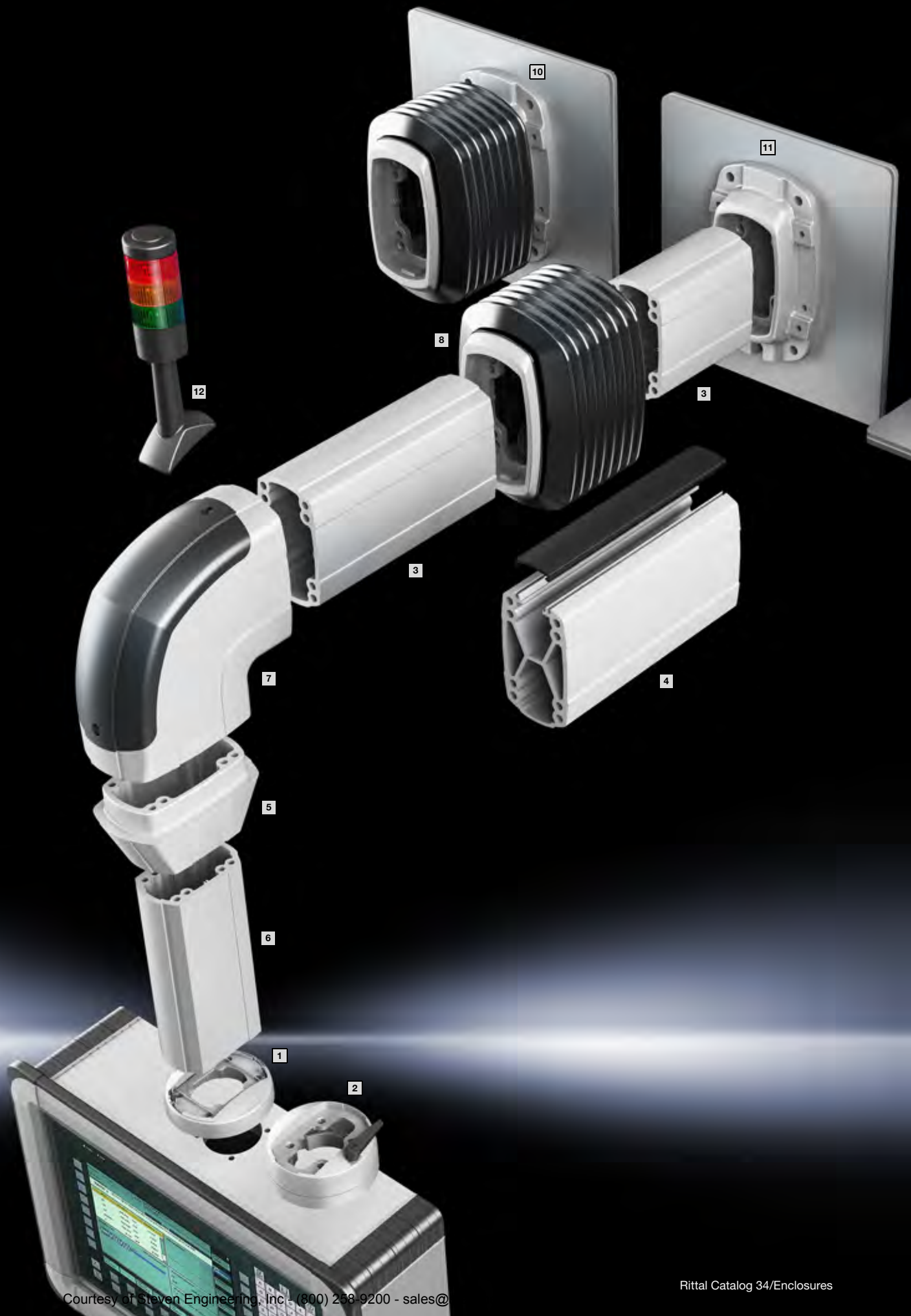


- 1 CP 120 Wall Joint, Horizontal Outlet (6212.740)
- 2 CP 120 Adapter to Support Arm, height adjustable (6071.600)
- 3 Support arm, height adjustable, see page 152
- 4 90° CP 120 Angle Piece (6212.600)
- 5 Adapter for CP 120/60 Support Arm Combination (6212.640)
- 6 CP 60 Support Section, L = 500 mm (6206.050)
- 7 CP 60 Coupling for 120 x 65 mm Support Arm Connection (6206.340)
- 8 CP 120 Support Section, Closed, L = 500 mm (6212.050)
- 9 CP 120 Coupling for Ø 130 mm Support Arm Connection (6212.300)
- 10 CP 120 Intermediate Joint (6212.620)

CP 120 Support Arm System

		Rotating/tilting	Rigid	Length inches (mm)	Weight lb (kg)	Color RAL	Housing section CP 120	Housing section CP 120/60	Center section CP 120	Wall section CP 120	
							Model No.				
	CP 120/60 adapter from support arm connection, Ø 130 mm to 120 x 65 mm	see page 149	-	■	-	1.1 (0.5)	7035	6212.500	6212.500	-	-
	CP 120/60 attachment for support arm connection										
	Ø 130 mm	-	■	-	1.5 (0.7)	7035	6212.320	6206.320	-	-	
	□ 120 x 65 mm	-	■	-	1.5 (0.7)	7035	-	6206.360	-	-	
	CP 120/60 coupling for support arm connection										
	Ø 130 mm	■	-	-	4.4 (2.0)	7035	6212.300	6206.300	-	-	
	□ 120 x 65 mm	■	-	-			-	6206.340	-	-	
	CP 120 90° angle coupling for support arm connection										
	Ø 130 mm	■	-	-	4.6 (2.1)	7035/ 7024	6212.380	-	-	-	
	CP 120/60 Support section						CP 120	CP 60 ¹⁾	CP 120	CP 120	
	Closed	-	-	10 (250)	4.4 (2.0)	7035	6212.025	6206.025	6212.025	6212.025	
		-	-	20 (500)	8.6 (3.9)		6212.050	6206.050	6212.050	6212.050	
		-	-	39 (1000)	17.2 (7.8)		6212.100	6206.100	6212.100	6212.100	
		-	-	79 (2000)	34.4 (15.6)		6212.200	6206.200	6212.200	6212.200	
	Open	-	-	20 (500)	10.1 (4.6)	7035/ 7024	6212.150	-	6212.150	6212.150	
		-	-	39 (1000)	20.3 (9.2)		6212.110	-	6212.110	6212.110	
		-	-	79 (2000)	40.6 (18.4)		6212.210	-	6212.210	6212.210	
	Adapter for CP 120/60 support arm combination										
	see page 151	-	■	-	1.5 (0.7)	7035	-	6212.640	-	-	
	90° CP 120 angle piece										
		-	■	-	2.4 (1.1)	7035/ 7024	6212.600	-	-	6212.600	
	CP 120 intermediate joint										
		■	-	-	9.7 (4.4)	7035/ 7024	-	-	6212.620	-	
	CP 120 top-mounted joint										
	Vertical outlet	■	-	-	8.4 (3.8)	7035	-	-	-	6212.720	
	Horizontal outlet	■	-	-	9.5 (4.3)	7035/ 7024	-	-	-	6212.700	
	CP 120 wall joint										
	Vertical outlet	■	-	-	12.1 (5.5)	7035/ 7024	-	-	-	6212.760	
	Horizontal outlet	■	-	-	13.4 (6.1)	7035/ 7024	-	-	-	6212.740	
	CP 120 wall/base mount, small										
		-	■	-	1.1 (0.5)	7035	-	-	-	6212.820	
	CP 120 wall/base mount, large										
		-	■	-	5.5 (2.5)	7035/ 7024	-	-	-	6212.800	
	CP 120/180 mounting component for signal pillar										
	see page 620	-	■	-	0.2 (0.1)	7024	6212.900	6212.900	6212.900	6212.900	
Tilting adapter											
For Ø 130 mm support arm connection and □ 120 x 65 mm										see page 139	
Accessories											
CP 120 adapter to support arm, height adjustable 6071.600										see page 151	

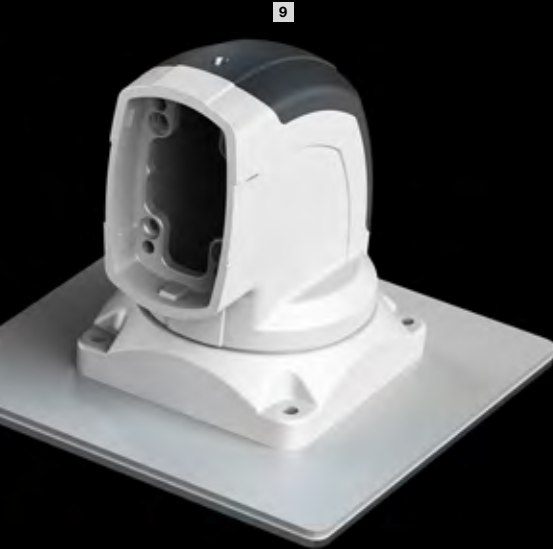
¹⁾ Weight data and graphics for CP 60, see page 139



CP 180 Support Arm System

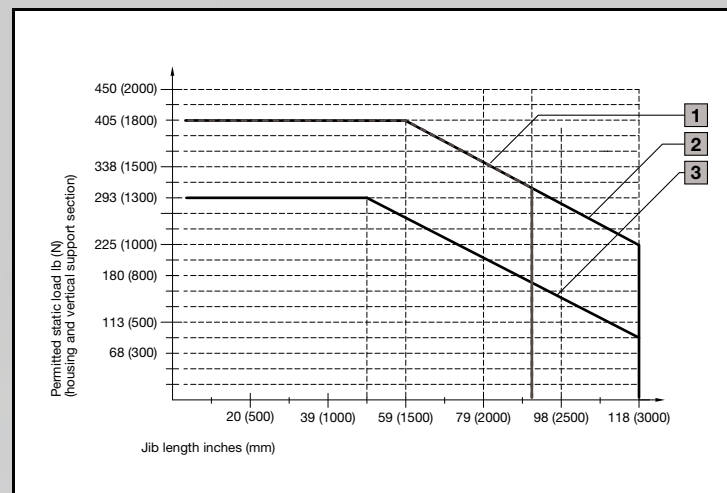
Component Overview

- 1 CP 120 Attachment for Ø 130 mm Support Arm Connection (6212.320)
- 2 CP 120 Coupling for Ø 130 mm Support Arm Connection (6212.300)
- 3 CP 180 Support Section, Closed (6218.050, 6218.100, 6218.200)
- 4 CP 180 Support Section, Open (6218.150, 6218.110, 6218.210)
- 5 Adapter for CP 180/120 Support Arm Combination (6218.640)
- 6 CP 120 Support Section, Closed (6212.025, 6212.050, 6212.100, 6212.200)
- 7 90° CP 180 Angle Piece (6218.600)
- 8 CP 120 Wall Joint (6218.620)
- 9 CP 180 Wall Joint, Horizontal Outlet (6218.700)
- 10 CP 180 Wall Joint, Horizontal Outlet (6218.740)
- 11 CP 180 Wall/Base Mount, Small (6218.820)
- 12 CP 120/180 Mounting Component for Signal Pillar (6212.900)



Load Data

Permitted load depending on system assembly

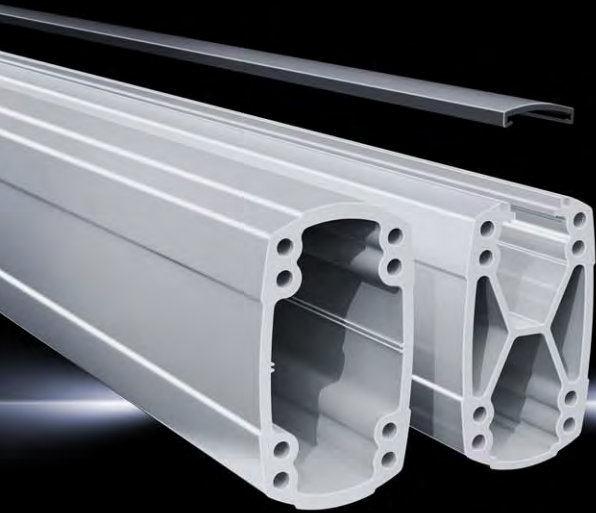


- 1 System configuration without 6218.620 intermediate joint, with open or closed support section
- 2 System configuration with 6218.620 intermediate joint and closed support section
- 3 System configuration with 6218.620 intermediate joint and open support section

Note:

- Only use one intermediate joint 6218.620 per system!
- Rittal recommends that if possible a closed support section be used between components 6218.700, 6218.740, 6218.820 and intermediate joint 6218.620

CP 180 Support Arm System



Comfort panel Page 124 Command panel with handle strips Page 120 Command panel for desktop TFT Page 122

CP 180 support section

Attached to the connection components with 4 self-tapping screws in the screw channel. May be cut to any length, no thread-tapping required. Closed cable duct with a large cross-section. Open cable duct for easy servicing access and for pre-assembled cables with connectors; lockable via cover profile.

X-shaped profiling for greater load capacity, large cable routing channels. Upper channel suitable for cables with large connectors (e.g. DVI or VGA) and available/usable throughout the entire system.

Dimensions:

- External dimensions: 90 x 160 mm

Material:

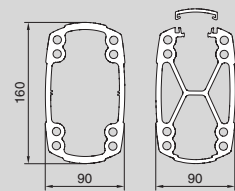
- Support section: Extruded aluminum section

Color:

- Support section: RAL 7035

Supply includes:

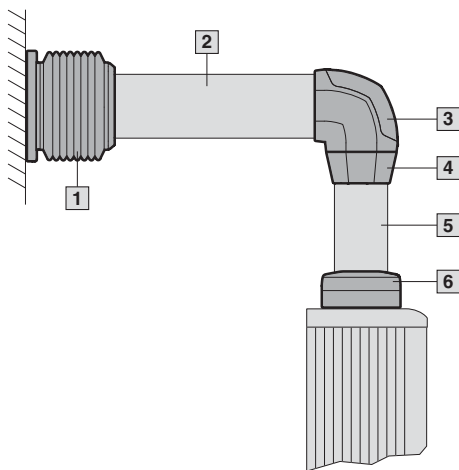
- Support section



Technical details:

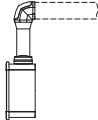
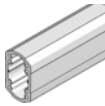
Available on the Internet

In combination with CP 120 support arm system



- 1 CP 180 wall joint, horizontal outlet (6218.740)
- 2 CP 180 closed support section, 1000 mm (6218.100)
- 3 90° CP 180 angle piece (6218.600)
- 4 Adapter for CP 180/120 support arm combination (6218.640)
- 5 CP 120 support section, closed, L = 500 mm (6212.050)
- 6 CP 120 coupling for Ø 130 mm support arm connection (6212.300)

CP 180 Support Arm System

		Rotating/tilting	Rigid	Length inches (mm)	Weight lb (kg)	Color RAL	Housing section CP 180/120	Center section CP 180	Wall section CP 180
									
Model No.									
CP 120 attachment for Ø 130 mm support arm connection									
		-	■	-	1.5 (0.7)	7035	6212.320	-	-
CP 120 coupling for Ø 130 mm support arm connection									
		■	-	-	4.4 (2.0)	7035	6212.300	-	-
CP 180/120 support section							CP 120 ¹⁾	CP 180	CP 180
	Closed	-	-	10 (250)	5.7 (2.6)	7035	6212.025	-	-
		-	-	20 (500)	11.5 (5.2)		6212.050	6218.050	6218.050
		-	-	39 (1000)	23.1 (10.5)		6212.100	6218.100	6218.100
		-	-	79 (2000)	46.3 (21.0)		6212.200	6218.200	6218.200
	Open	-	-	20 (500)	12.8 (5.8)	7035/ 7024	6212.150	6218.150	6218.150
		-	-	39 (1000)	25.6 (11.6)		6212.110	6218.110	6218.110
		-	-	79 (2000)	51.1 (23.2)		6212.210	6218.210	6218.210
		-	-	79 (2000)	51.1 (23.2)		6212.210	6218.210	6218.210
Adapter for CP 180/120 support arm combination									
	see page 151	-	■	-	3.3 (1.5)	7035	6218.640	-	-
90° CP 180 angle piece									
		-	■	-	7.9 (3.6)	7035/ 7024	6218.600	-	6218.600
CP 180 intermediate joint									
		■	-	-	22.7 (10.3)	7035/ 7024	-	6218.620	-
CP 180 top-mounted joint									
	Horizontal outlet	■	-	-	39.7 (18.0)	7035/ 7024	-	-	6218.700
CP 180 wall joint									
	Horizontal outlet	■	-	-	28.7 (13.0)	7035/ 7024	-	-	6218.740
CP 180 wall/base mount, small									
		-	■	-	11.0 (5.0)	7035	-	-	6218.820
CP 120/180 mounting component for signal pillar									
	For 6218.600, 6218.700 only, see page 620	-	■	-	0.2 (0.1)	7024	6212.900	-	6212.900

¹⁾ Weight data and graphics for CP 120, see page 143

CP 40/60/120/180 Support Arm System



VESA 75/100 Connection Console

For rear connection of

- slimline command panels
- commercially available TFTs
- industrial PCs

using a VESA 75/100 connection

Connection to Rittal support arm systems

- CP 40
- CP 60
- CP 120 via adapter from support arm connection Ø 130 mm to □ 120 x 65 mm

Advantages:

- Fast, simple one-person assembly using machined keyholes
- More space for installation and servicing
- Cables may be routed to devices inside and outside the console
- Removable cover for easy cable routing and access to interior device connections
- Integral cable clamping facilities
- Cover with captive screws

Material:

- Cast aluminum

Color:

- Connection console: RAL 7035
- Cover: RAL 7024

Supply includes:

- Seal and assembly components
- Cable ties for cable clamping



Weight lb (kg)	Model No.
2.4 (1.1)	6206.480



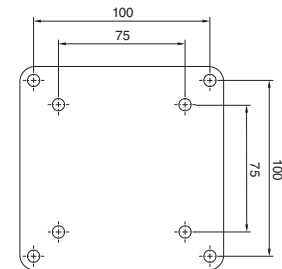
Also required:

- CP 60 attachment for support arm connection
□ 120 x 65 mm, 6206.360
- CP 60 coupling for support arm connection
□ 120 x 65 mm, 6206.340
- 10° tilting adapter for support arm connection
□ 120 x 65 mm, 6206.440
- CP 40 coupling for support arm connection
□ 120 x 65 mm, 6501.130
- +/-45° tilting adapter for support arm connection
□ 120 x 65 mm, 6206.460
- Adapter from support arm connection Ø 130 mm to □ 120 x 65 mm, 6212.500

Technical details:

Available on the Internet

VESA connection hole pattern



Connection console

- For rear connection of slimline command panels
- Removable cover for easy cable routing

Connection to Rittal support arm systems

- CP 40
- CP 60
- CP 120 via adapter from support arm connection Ø 130 mm to □ 120 x 65 mm

Material:

- Cast aluminum

Color:

- RAL 7024

Supply includes:

- Seal and assembly components
- Cable ties for cable clamping

Weight lb (kg)	Model No.
1.5 (0.7)	6508.010

Technical details:

Available on the Internet

CP 40/60/120/180 Support Arm System

Adapter

from support arm connection Ø 130 mm to
□ 120 x 65 mm

For external mounting of command panels with
□ 120 x 65 mm support arm cut-out and
VESA 75/100 connection console to

- CP 120 coupling, 6212.300
- CP 120 attachment, 6212.320
- 90° CP 120 angle coupling, 6212.380
- Pivot with jib, 6016.600
- Pivot for machine-integrated installation, 6016.700

Material:

- Cast aluminum

Color:

- RAL 7035

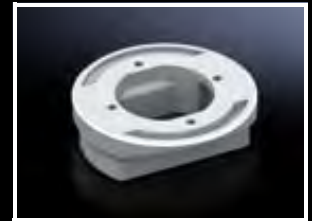
Supply includes:

- Seals
- Assembly components

Height inches (mm)	Weight lb (kg)	Model No.
2 (40)	1.1 (0.5)	6212.500

Technical details:

Available on the Internet



Adapter

from support arm connection Ø 180 mm to
Ø 130 mm

For mounting between:

- Housings with Ø 180 mm support arm connection and
- CP 60/120 coupling for Ø 130 mm support arm connection, 6206.300, 6212.300
- CP 60/120 attachment for Ø 130 mm support arm connection, 6206.320, 6212.320
- Pivot, 6016.600, 6016.700

Material:

- Cast aluminum

Color:

- RAL 7035

Supply includes:

- Seals
- Assembly components

Height inches (mm)	Weight lb (kg)	Model No.
0.8 (20)	1.3 (0.6)	6212.520

Technical details:

Available on the Internet



Adapter

for Siemens Pro-Panel

For mounting Siemens Simatic

- MP 377 15" Pro
- Thin Client 15" Pro
- Flat Panel Monitor 15", 19" Pro
- HMI IPC477C 15" Pro

on support arm system

- CP 40, steel
- CP 60/120 with support arm connection
□ 120 x 65 mm

Material:

- Aluminum

Color:

- RAL 7035

Supply includes:

- Seals
- Assembly components

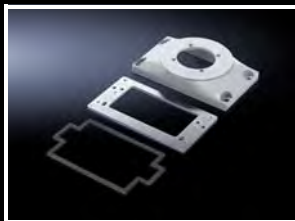
Weight lb (kg)	Model No.
0.7 (0.3)	6206.500

Technical details:

Available on the Internet



CP 40/60/120/180 Support Arm System



Connection plates

with reinforcement plate

- For easy location of the command panel onto the support arm or pedestal
- More space for cable entry

For mounting command panels

- Comfort Panel from a front panel width of 247 mm and installation depth of 152 mm
- Carbon steel from 135 mm installation depth

For mounting on support arm system components

- CP 60/120 attachment for Ø 130 mm support arm connection, 6206.320, 6212.320
- CP 60/120 coupling for Ø 130 mm support arm connection, 6206.300, 6212.300
- 90° CP 60/120 angle coupling for Ø 130 mm support arm connection, CP 6206.380, 6212.380
- 10° CP 60/120 tilting adapter, for Ø 130 mm support arm connection, CP 6206.400
- ±45° CP 60/120 tilting adapter, for Ø 130 mm support arm connection, CP 6206.420

Weight lb (kg)	Model No.
3.1 (1.4)	6212.540

Material:

- Connection plate: Cast aluminum
- Reinforcement plate: Carbon steel, 6 mm

Color:

- RAL 7035

Supply includes:

- Reinforcement plate
- Seals
- Assembly components

Technical details:

Available on the Internet



90° angle adapter

for support arm combination CP 60 to CP 40

Application:

- Connection component from CP 60 horizontal to CP 40 vertical
- For external mounting of small, slimline command panel with CP 40 components, if the greater load capacity of CP 60 is needed for large jib lengths or if an intermediate joint is required for the application

Advantages:

- With integral adjustment facility
- Removable cover for easy cable routing

Material:

- Angle adapter 90°: Cast aluminum
- Cover: Plastic

Color:

- Angle adapter 90°: RAL 7035
- Cover: RAL 7024

Supply includes:

- Seals
- Adjusting screws
- Self-tapping screws and clamping screws for support section attachment

Weight lb (kg)	Model No.
2.2 (1.0)	6206.640



Accessories:

- Mounting component for signal pillars (6206.900), for connecting to the cover, see page 620

Technical details:

Available on the Internet



CP 40/60/120/180 Support Arm System

Adapter

For support arm combination

- CP 120 to 60
- CP 180 to 120

Application:

- Connection component between large and small support arm systems, where this arrangement is chosen for static, visual or cost reasons
- For mounting small, flat command panel if the load capacity of a larger system is needed horizontally for long jib lengths

Advantages:

- Integral adjustment facility

Material:

- Cast aluminum

Color:

- RAL 7035

Supply includes:

- Seals
- Self-tapping screws for support section attachment

For support arm system	Weight lb (kg)	Model No.
CP 120 to 60	1.5 (0.7)	6212.640
CP 180 to 120	3.3 (1.5)	6218.640

Technical details:

Available on the Internet



CP 120 adapter to support arm, height adjustable

Application:

- For integration of the height-adjustable support arm to the CP 120 support arm system

Advantages:

- Integral adjustment facility

Material:

- Cast aluminum

Color:

- RAL 7035

Supply includes:

- Seals
- Incl. self-tapping screws for support section attachment

Weight lb (kg)	Model No.
1.3 (0.6)	6071.600

Technical details:

Available on the Internet



CP 40/60/120/180 Support Arm System



Support Arm, Height Adjustable

for CP 120 support arm system

Offers enhanced ergonomics thanks to:

- Adjustment range
 - for big and small operators
 - for working when seated or standing
 - adjustable to up to 800 mm as required using an adjusting screw on the front of the support arm
- Precise coordination of the compression spring to the housing weight via an adjusting screw on the rear of the support arm
- Complete functional reliability – if the compression spring breaks, the arm will remain in position
- Clip-off plastic panels for access to integral cable routing
- Tilting angle of the mounted housing is identical in every height position

For 6510.330 and 6510.340

- More space for cable routing
- Cables with connectors such as DVI, VGA are also easily inserted
- Integral locking in three stages
- Higher load capacity

Supply includes:

- Assembly components

Overall length inches (mm)	Color RAL	Weight range lb (kg) ¹⁾	Model No.
38 (962)	9006	22 – 44 (10 – 20)	6510.210
43 (1090)	9006	33 – 71 (15 – 32)	6510.330
43 (1090)	9006	44 – 88 (20 – 40)	6510.340

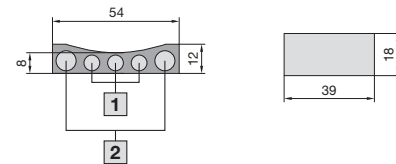
¹⁾ Applies to configured housing and vertical support section

Note:

Maximum cross-section for cable entry:

- 6510.210 = 8 x 15 mm

6510.330, 6510.340
Maximum number of introduced cables Maximum connector dimensions

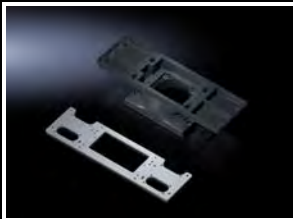


1 Max. Ø 7 mm (3 x)

2 Max. Ø 8.5 mm (2 x)

Technical details:

Available on the Internet



Housing Coupling

for desktop mounting

Stable, rotating connection with extra space for cable routing.

To provide additional stability for the top and base with heavy installed equipment.

For mounting

- Command Panels from an installation depth of 150 mm on/to
- IW worktops
- Horizontal surfaces (floors or ceilings)

Mounting

- of Command Panel: One-person assembly using machined keyholes
- on surfaces: Using external screws with cover

Rotation range:

- Max. 350°, lockable via clamping levers
- Inserting additional M6 cheese-head screws enables the rotation range to be limited to ±28°, ±73°, ±118°, ±163°

Material:

- Housing coupling: Cast aluminum/die-cast zinc
- Reinforcement plate: Carbon steel, 6 mm

Surface finish:

- Housing coupling: Powder-coated, textured
- Reinforcement plate: Zinc-plated

Color:

- Housing coupling: RAL 7024

Supply includes:

- Reinforcement plate
- Seals
- Assembly components

Version	Comfort Panel	Weight lb (kg)	Model No.
W = 16" (418 mm)	17 (435) ¹⁾	9.2 (4.2)	6528.410

¹⁾ From a front panel width inches (mm) without keyboard housing, with keyboard housing on request

Note:

- With the Comfort Panel housing, the rectangular support arm cut-out can be selected, ordered and prepared using the command panel configurators on the Rittal website

Technical details:

Available on the Internet

CP 40/60/120/180 Support Arm System

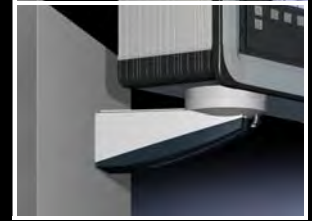
Pivot

with/without jib

- For direct, pivoted integration into machines and systems
- Housing suspended or top-mounted
- With integral rotation range restrictor
- To fit housings with Ø 130 mm mounting cut-out

Jib length inches (mm)	Color RAL	Load capacity lb (N)	Model No.
–	7024	157 (700)	6016.700
8 (200)	7024/7035	157 (700)	6016.600

Technical details:
Available on the Internet



Tilting adapter +/-45°

for command panels with Ø 130 mm support arm connection

For mounting between:

- CP 60 coupling, 6206.300
- CP 120 coupling, 6212.300

or

- CP 60 attachment, 6206.320
- CP 120 attachment, 6212.320

or

- 90° CP 60 angle coupling, 6206.380
 - 90° CP 120 angle coupling, 6212.380
- and command panel

Tilting angle:

- Adjustable in 7.5° steps

Material:

- Tilting adapter: Cast aluminum
- Concertina section: Plastic

Color:

- Tilting adapter: RAL 7035
- Concertina section: RAL 7024

Supply includes:

- Seals
- Concertina section
- Assembly components

Weight lb (kg)	Model No.
2.6 (1.2)	6206.420

Technical details:
Available on the Internet





Tilting adapter +100°/-60°

For command panel with support arm connection □ 120 x 65 mm

- For mounting on
- IW worktop, prepared for attachment of Ø 130 mm
 - Surfaces
 - For attachment/coupling with support arm connection □ 120 x 65 mm

Suitable for enclosures up to 20 kg with support arm connection

- □ 90 x 71 mm
- Ø 130 mm
- □ 120 x 65 mm
- VESA Standard 75

With cable tube for protected cable entry.

Tilting angle:

- Adjustable in 7.2° increments via clamping lever and may be limited to +100°/-15° using the stop screw supplied.

Material:

- Tilting adapter: Carbon steel, spray finished
- Concertina section: Plastic

Color:

- Tilting adapter: RAL 7035
- Concertina section: RAL 7024

Supply includes:

- Concertina section
- Assembly components

Weight lb (kg)	Model No.
1.8 (0.8)	6206.460

Technical details:

Available on the Internet

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Stand Systems for CP 60/120 Support Arm System



Stand Systems



Comfort panel Page 124 Command panel with handle strips Page 120

Pedestal, modular, consisting of

- Pedestal base plate/cross member
- Support section
- Housing connection

Color:
– RAL 7035

Technical details:
Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

Pedestal, modular

Load capacity lb (kg)		40 (18)	77 (35) ¹⁾	77 (35) ¹⁾	Page
[1] Pedestal base plate					
Pedestal base plate/cross member		6106.100	6106.200	6106.400	
Dimensions inches (mm)	Height	4 (108)	4 (100)	8 (205)	
	Width	16 (400)	19 (490)	24 (600)	
	Depth	16 (400)	24 (600)	26 (650)	
[2] Support section					
Height-adjustable, range 29 – 44" (732 – 1122 mm)		–	–	–	
Closed, length 39" (1000 mm)		6206.100	6206.100 ¹⁾	6206.100 ¹⁾	
[3] Housing connection					
Housing Reinforcement, Rigid		6106.110	–	–	
CP 40 Attachment, Steel, for □ 90 x 71 mm Support Arm Connection		–	–	–	
CP 40 Coupling, Steel, for □ 90 x 71 mm Support Arm Connection		–	–	–	
CP 40 Coupling, Steel, for □ 120 x 65 mm Support Arm Connection		–	–	–	
CP 60 Attachment for Ø 130 mm Support Arm Connection		–	6206.320	6206.320	
CP 60 Attachment for □ 120 x 65 mm Support Arm Connection		–	6206.360	6206.360	
CP 60 Coupling for Ø 130 mm Support Arm Connection		–	6206.300	–	
CP 60 Coupling for □ 120 x 65 mm Support Arm Connection		–	6206.340	–	
Tilt Adjustment		–	–	–	
Accessories					
Twin castors		–	6148.000	■	436
Leveling feet		–	4612.000	–	435
Wall mounting bracket		–	1590.000	–	503

¹⁾ Alternative: Support arm system CP 120 may also be used by simply drilling a hole. Load capacity 110 lb (50 kg).



Comfort panel Page 124 **Command panel with handle strips** Page 120

The right system for your application:

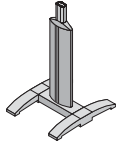
- Load capacity up to 25 kg
- Reliable protection of cable management

Color:
– RAL 7035

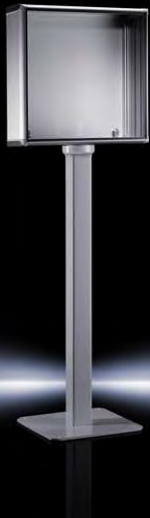
Technical details:
Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

Pedestal, complete

		
Load capacity lb (kg)	55 (25)	Page
Model No.	6106.300	
Height inches (mm)	43 (1093)	
Width inches (mm)	24 (600)	
Depth inches (mm)	24 (660)	
Supply includes		
Cross member	■	
Support section	■	
Vertical aluminum panel molding, may be opened	■	
Accessories		
Twin castors	6148.000, 7495.000	436
Leveling feet	4612.000	435
Base mount	6147.000	159
Trim panel for pedestal	6144.100	159
CP 60 Attachment for Ø 130 mm Support Arm Connection	6206.320	139
CP 60 Attachment for □ 120 x 65 mm Support Arm Connection	6206.360	139
CP 60 coupling for Ø 130 mm Support Arm Connection	6206.300	139
CP 60 Coupling for □ 120 x 65 mm Support Arm Connection	6206.340	139

Stand Systems



Comfort panel Page 124 Command panel with handle strips Page 120

The welded alternative to the pedestal, complete

- Open pedestal for retrospective cable entry with pre-assembled connectors
- Pillar, small:
For heavy installed equipment

Material:
– Steel

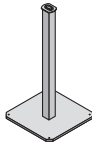
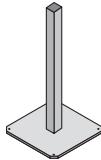
Surface finish:
– Spray-finished

Color:
– RAL 7035

Technical details:
Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

Pedestal, open/Pillar, small

				
Load capacity lb (kg)		88 (40)	176 (80)	Page
Model No.		6106.500	6112.500	
Supply includes				
Base plate cross-section inches (mm)	Height	0.4 (10)	0.5 (12)	
	Width	16 (400)	20 (500)	
	Depth	16 (400)	20 (500)	
Overall height mm		43 (1095)	45 (1150)	
Accessories				
CP 60 Attachment for Ø 130 mm Support Arm Connection		6206.320	–	139
CP 60 Attachment for □ 120 x 65 mm Support Arm Connection		6206.360	–	139
CP 60 Coupling for Ø 130 mm Support Arm Connection		6206.300	–	139
CP 60 Coupling for □ 120 x 65 mm Support Arm Connection		6206.340	–	139
CP 120 Attachment for Ø 130 mm Support Arm Connection		–	6212.320	143
CP 120 Coupling for Ø 130 mm Support Arm Connection		–	6212.300	143

Base mount

Brackets are screw-fastened to the cast feet from below using M12 countersunk screws. Optionally with projection at the front, interior or sides, with Ø 11 mm hole for screw-fastening to the base.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Posidrive raised countersunk screws M12

Packs of	Model No.
4 pc(s).	6147.000



Trim panel

Material:

- Cast aluminum

Supply includes:

- Mounting accessories for screw-fastening between the cast feet at the front or rear

Color RAL	Model No.
Textured 7035	6144.100



Housing Reinforcement

For external or internal reinforcement of housings in the relevant size. Smaller housings may also be mounted directly without reinforcement.

Supply includes:

- Mounting parts for the housing and support section plus 2 seals

Technical details

Available on the Internet

	For housing	Support arm connection	Material	Weight lb (kg)	Model No.
1	W1 ≥ 12" (300 mm), D1 ≥ 6" (150 mm)	CP 40, stainless steel	Stainless steel (1.4301)	2.0 (0.9)	6143.310
2	W1 ≥ 12" (300 mm), D1 ≥ 6" (150 mm)	CP 60	Carbon steel	2.0 (0.9)	6106.110



Worktops

Chipboard, laminated with plastic on both sides, similar to RAL 7035, with resistant plastic edging, similar to RAL 7015.

Height inches (mm)	Width inches (mm)	Depth inches (mm)	Weight lb (kg)	Model No.
1 (38)	24 (610)	25 (645)	25.6 (11.6)	6902.300
1 (38)	39 (1000)	35 (895)	52.9 (24.0)	6902.100



Monitor Housing

For protected accommodation of monitors up to 21" screen diagonal.

Material:

- Housing, rear door and component shelf: Carbon steel, 1.5 mm

Height inches (mm)	Width inches (mm)	Depth inches (mm)	Weight lb (kg)	Model No.
24 (600)	24 (600)	24 (600)	93.7 (42.5)	6902.500



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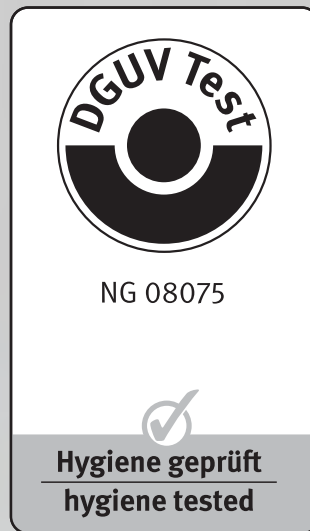
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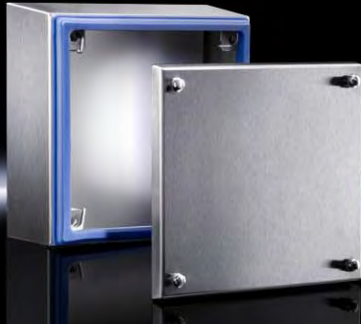
Hygienic Design

Small and Compact Housing HD

Junction Boxes HD.....	162
Compact Enclosure HD.....	163
Accessories.....	164



Hygienic Design



HD accessories Page 164 System accessories Page 421 KL stainless steel Page 168

Material:

- Housing and cover: Stainless steel 1.4301 (AISI 304), 1.5 mm
- Installation bracket: Carbon steel, zinc-plated, 2.0 mm
- Quick-release fasteners: Stainless steel
- Seal: Silicone, blue, dyed (RAL 5010), compliant with FDA Guideline 21 CFR 177.2600

Surface finish:

- Housing and cover: Brushed, grain 400, peak-to-valley height < 0.8 µm
- Mounting plate: Zinc-plated

Protection category IP to IEC 60 529:

- IP 66

Protection category IP to DIN 40 050-9:

- IP 69K

Protection category NEMA:

- NEMA 13

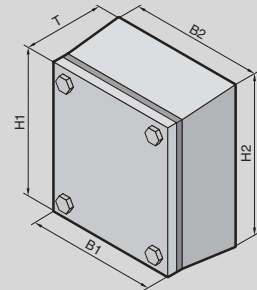
- NEMA 3R
- NEMA 4X

Supply includes:

- Housing of all-round solid construction
- Cover
- Installation bracket (pre-assembled)
- Seal and quick-release locks (supplied loose)

Technical details:

Available on the Internet



Junction boxes HD

Height (front) (H1) inches (mm)	Packs of	6 (150)	6 (150)	8 (200)	8 (200)	8 (200)	12 (300)	Page
Height (rear) (H2) inches (mm)		7 (17)2	7 (177)	9 (227)	9 (227)	9 (227)	13 (327)	
Width (front) (B1) inches (mm)		6 (150)	6 (150)	8 (200)	12 (300)	16 (400)	16 (400)	
Width (rear) (B2) inches (mm)		7 (172)	7 (177)	9 (227)	13 (327)	17 (427)	17 (427)	
Depth (T) inches (mm)		3 (80)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	
Model No.	1 pc(s).	1670.600	1671.600	1672.600	1674.600	1675.600	1676.600	
Accessories								
Wall Spacer Bracket HD	1 pc(s).	4000.100	4000.100	4000.100	4000.100	4000.100	4000.100	164
Mounting Plates	1 pc(s).	1560.700	1560.700	1562.700	1563.700	1564.700	1568.700	507
Support Rails TS 35/7.5	10 pc(s).	2314.000	2314.000	2315.000	2316.000	2317.000	2317.000	530
Cable Gland HD		see page	see page	see page	see page	see page	see page	568



HD accessories Page 164 System accessories Page 421 AE stainless steel Page 175 Rails for interior fitting HD Page 165

Material:

- Housing and door: Stainless steel 1.4301 (AISI 304)
- Mounting plate: Carbon steel
- Lock inserts HD: Stainless steel 1.4404 (AISI 316L)
- Seal: Silicone, blue, dyed (RAL 5010), compliant with FDA Guideline 21 CFR 177.2600

Surface finish:

- Housing and door: Brushed, grain 400, peak-to-valley height < 0.8 µm
- Mounting plate: Zinc-plated

Protection category IP to IEC 60 529:

- IP 66

Protection category IP to DIN 40 050-9:

- IP 69K

Protection category NEMA:

- NEMA 13
- NEMA 4X

Supply includes:

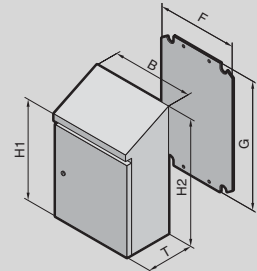
- Housing of all-round solid construction
- Door with press-fitted seal
- Interchangeable door catch
- Mounting plate

Approvals:

- UL
- cUL

Technical details:

Available on the Internet



Compact enclosure HD

Height (front) (H1) inches (mm)	Packs of	14 (350)	17 (430)	26 (650)	22 (550)	17 (430)	26 (650)	41 (1050)	49 (1250)	Page
Height (rear) (H2) inches (mm)		17 (437)	22 (549)	30 (769)	26 (669)	24 (601)	30 (769)	48 (1221)	56 (1421)	
Width (B) inches (mm)		9 (220)	15 (390)	15 (390)	20 (510)	24 (610)	24 (610)	32 (810)	32 (810)	
Depth (T) inches (mm)		6 (155)	8 (210)	8 (210)	8 (210)	12 (300)	8 (210)	12 (300)	12 (300)	
Mounting plate width (F) inches (mm)		6 (162)	13 (334)	13 (334)	18 (449)	22 (549)	22 (549)	29 (739)	29 (740)	
Mounting plate height (G) inches (mm)		11 (275)	14 (355)	22 (570)	19 (470)	14 (355)	22 (570)	38 (955)	45 (1155)	
Model No.	1 pc(s).	1302.600	1306.600	1308.600	1307.600	1320.600	1310.600	1316.600	1317.600	
Accessories										
Wall Spacer Bracket HD	1 pc(s).	4000.100	4000.100	4000.100	4000.100	4000.100	4000.100	4000.100	4000.100	164
Cable Gland HD		see page	see page	see page	see page	see page	see page	see page	see page	568

Hygienic Design

Accessories



Leveling Feet HD

Benefits:

- Minimizes cleaning time due to fully covered, permanently sealed threads
- Compensation of floor inclines up to an angle of 10° thanks to flexible base plate
- Leveling of bayed enclosures can be achieved on sloping floors, thanks to a large leveling range of 55 mm

Load capacity:

- Max. 5000 N static per leveling foot

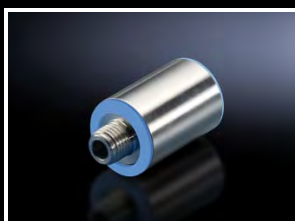
Material:

- Stainless steel 1.4301 (AISI 304)

Supply includes:

- Assembly components and seals

Thread	Leveling range inches (mm)	Floor attachment	Packs of	Model No.
M12	4.7 – 6.9 (120 – 175)	without	4 pc(s).	4000.200
		with	4 pc(s).	4000.210



Wall Spacer Bracket HD

Benefits:

- Creates space for cleaning behind the housing
- Shorter assembly times by eliminating the need for an all-round seal
- Greater hygiene safety by avoiding an uncontrollable dead space or gap between the housing and wall

Function principle:

- Mounting on the wall optionally from the housing interior via a through-hole (max. M8) or from the rear via an integral M10 thread

Material:

- Stainless steel 1.4301 (AISI 304)

Supply includes:

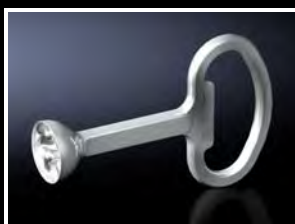
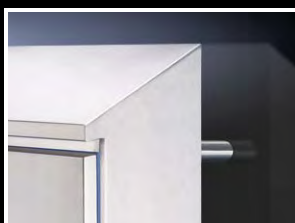
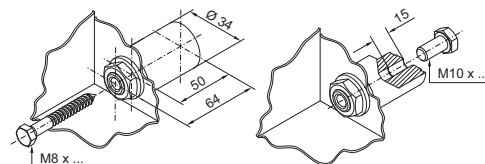
- Assembly components and seals

Wall clearance inches (mm)	Packs of	Model No.
2 (50)	1 pc(s).	4000.100

Mounting alternatives:

Mounting from inside

Mounting from outside



Enclosure Key HD

Packs of	Model No.
1 pc(s).	2549.600

HD Bit

for universal key 2549.500

See page 491

Packs of	Model No.
1 pc(s).	2549.510



Cam Lock HD

Hygienic Design version for easy, safe cleaning.

Applications:

- Compact enclosures AE stainless steel (except AE 1017.XXX and AE 1019.XXX)
- May be integrated into customized applications, e.g. covers of machine panels

Material:

- Stainless steel 1.4404 (AISI 316L)

Packs of	Model No.
1 pc(s).	2304.010



Accessories:

- Enclosure key HD, see page 164

Rails for Interior Fitting

for compact enclosures HD

Mounted on the existing threaded bolts.
With TS system punchings on three sides.

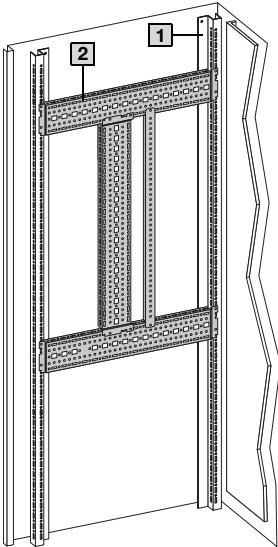
Material:

– Carbon steel, zinc-plated

Supply includes:

– Assembly components

Length inches (mm)	Packs of	Model No.	Page
20 (510)	4 pc(s).	5001.050	521
28 (710)	4 pc(s).	5001.051	521
36 (910)	4 pc(s).	5001.052	521
44 (1110)	4 pc(s).	5001.053	521

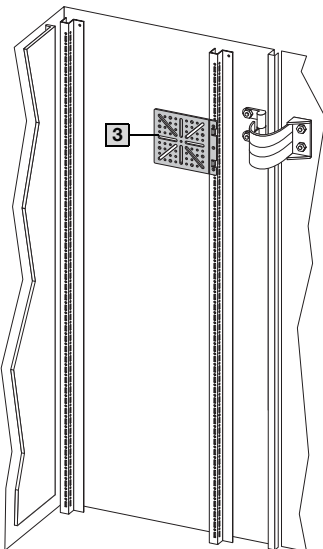


Interior Fitting, Door

Housing	1	1	1
Model No.	Model No.		
1316.600	5001.052	5001.050	5001.050
1317.600	5001.053	5001.051 5001.050	5001.051 5001.050

Interior Fitting, Enclosure

Housing	1	2	3
	Rails for Interior Fitting 	TS System Chassis 17 x 73 mm 	Mounting Plates
Model No.	Model No.	Model No.	
1308.600 1310.600	5001.050	–	–
1316.600	5001.052	8612.130 (on lock side only)	8612.400 8612.410
1317.600	5001.053	8612.130 (on lock side only)	8612.400 8612.410



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Stainless Steel

Small Housing

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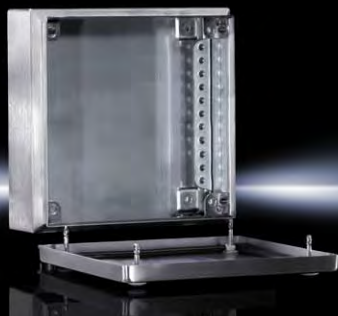
Command Panel Housing

Command Panel Housing with Door.....	183
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Support Arm System

Support Arm System CP 40	132
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Junction Boxes KL



System accessories Page 421 KL carbon steel Page 27 KL for potentially explosive areas Page 186 KL Hygienic Design Page 162

Material:

- Housing: Stainless steel 1.4301 (AISI 304)
- Cover: Stainless steel 1.4301 (AISI 304), all-round foamed-in PU seal

Surface finish:

- Housing and cover: Brushed, grain 180

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4X

Supply includes:

- Housing with cover
- Quick-release fasteners including plastic bushings

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas

Technical details:

Available on the Internet

Stainless Steel

Height inches (mm)	Packs of	6 (150)	6 (150)	6 (150)	8 (200)	8 (200)	Page
Width inches (mm)		6 (150)	6 (150)	12 (300)	8 (200)	8 (200)	
Depth inches (mm)		3 (80)	5 (120)	3 (80)	3 (80)	5 (120)	
Material thickness, housing ga (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Material thickness, cover ga (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1521.010	1527.010	1522.010	1523.010	1528.010	
Weight lb (kg)		3 (1.3)	4 (1.6)	4 (1.8)	4 (1.8)	5 (2.2)	
Number of quick-release fasteners		4	4	4	4	4	
Accessories							
Mounting plates	1 pc(s).	1560.700	1560.700	1561.700	1562.700	1562.700	507
Wall mounting bracket	4 pc(s).	1594.000	1594.000	1594.000	1594.000	1594.000	503
Wall mounting angle	4 pc(s).	2583.010	2583.010	2583.010	2583.010	2583.010	505
Pole clamp	1 set(s)	2584.000	2584.000	2584.000	2584.000	2584.000	505
Support rails TS 35/7.5	10 pc(s).	2314.000	2314.000	2316.000	2315.000	2315.000	530
Cover hinge	2 pc(s).	1592.010	1592.010	1592.010	1592.010	1592.010	492
Pressure relief plugs	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	448

Stainless Steel

Height inches (mm)	Packs of	8 (200)	8 (200)	8 (200)	12 (300)	12 (300)	Page
Width inches (mm)		12 (300)	12 (300)	16 (400)	12 (300)	16 (400)	
Depth inches (mm)		3 (80)	5 (120)	5 (120)	5 (120)	5 (120)	
Material thickness, housing ga (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Material thickness, cover ga (mm)		18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	18 (1.25)	
Model No.	1 pc(s).	1524.010	1529.010	1525.010	1526.010	1530.010	
Weight lb (kg)		5 (2.4)	6 (2.9)	8 (3.6)	9 (3.9)	10 (4.6)	
Number of quick-release fasteners		4	4	4	4	4	
Accessories							
Mounting plates	1 pc(s).	1563.700	1563.700	1564.700	1567.700	1568.700	507
Wall mounting bracket	4 pc(s).	1594.000	1594.000	1594.000	1594.000	1594.000	503
Wall mounting angle	4 pc(s).	2583.010	2583.010	2583.010	2583.010	2583.010	505
Pole clamp	1 set(s)	2584.000	2584.000	2584.000	2584.000	2584.000	505
Support rails TS 35/7.5	10 pc(s).	2316.000	2316.000	2317.000	2316.000	2316.000	530
Cover hinge	2 pc(s).	1592.010	1592.010	1592.010	1592.010	1592.010	492
Pressure relief plugs	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	448



System accessories Page 421 JB carbon steel Page 31

Material:

- Housing: Stainless steel 1.4301 (AISI 304)
- Door: Stainless steel 1.4301 (AISI 304), all-round foamed-in PU seal

Surface finish:

- Housing and door: Brushed, grain 240

Protection category IP to IEC 60 529:

- IP 55
- IP 66

Protection category NEMA:

- NEMA 12, 3R, 4X

Approvals:

- UL
- cUL

Supply includes:

- Housing with hinged door, left-hand door catch
- 180° hinge
- Screwdriver insert
- Blind rivet nuts for wall mounting

Technical details:

Available on the Internet

Stainless Steel, with Hinged Door

Height (H) inches (mm)	Packs of	4 (100)	6 (150)	6 (150)	6 (150)	8 (200)	8 (200)	Page
Width (W) inches (mm)		4 (100)	4 (100)	4 (100)	6 (150)	6 (150)	8 (200)	
Depth (D) inches (mm)		3 (75)	3 (75)	4 (100)	4 (100)	4 (100)	4 (100)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, cover ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Model No.	1 pc(s).	8018.134	8018.132	8018.136	8018.110	8018.129	8018.131	
Model No. US	1 pc(s).	JB040403H4	JB060403H4	JB060404H4	JB060604H4	JB080604H4	JB080804H4	
Weight lb (kg)		2 (0.9)	3 (1.2)	3 (1.4)	4 (1.6)	4 (1.9)	5 (2.4)	
Accessories								
Wall mounting bracket	4 pc(s).	1594.000	1594.000	1594.000	1594.000	1594.000	1594.000	503

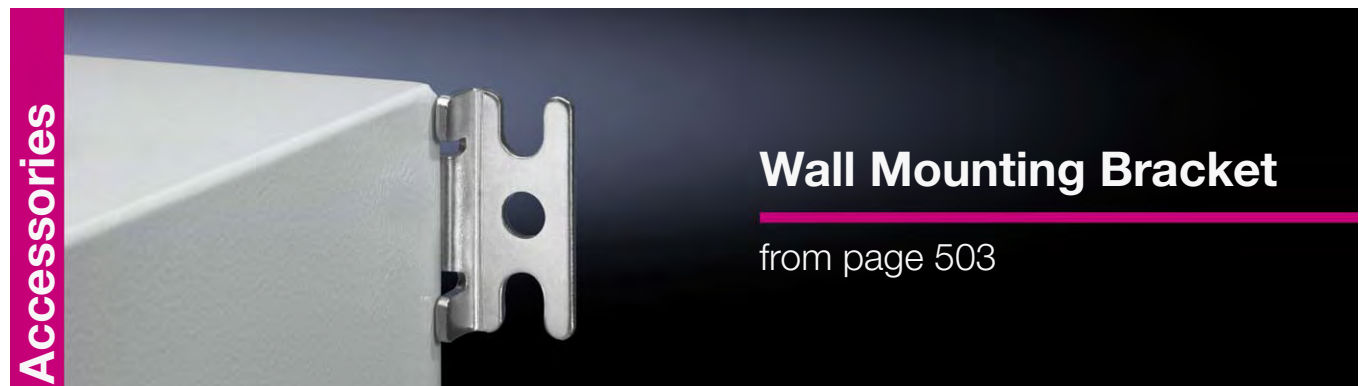
Stainless Steel

Height (H) inches (mm)	Packs of	10 (250)	8 (200)	10 (250)	10 (250)	Page
Width (W) inches (mm)		8 (200)	6 (150)	8 (200)	10 (250)	
Depth (D) inches (mm)		4 (100)	6 (150)	6 (150)	6 (150)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, cover ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Model No.	1 pc(s).	8018.109	8018.138	8018.130	8018.133	
Model No. US	1 pc(s).	JB100804H4	JB080606H4	JB100806H4	JB101006H4	
Weight lb (kg)		6 (2.7)	5 (2.2)	7 (3.3)	7 (3.6)	
Accessories						
Wall mounting bracket	4 pc(s).	1594.000	1594.000	1594.000	1594.000	503

Junction Boxes JB

Stainless Steel

Height (H) inches (mm)	Packs of	12 (300)	12 (300)	14 (350)	16 (400)	12 (300)	16 (400)	Page
Width (W) inches (mm)		10 (250)	12 (300)	12 (300)	14 (350)	10 (250)	14 (350)	
Depth (D) inches (mm)		6 (150)	6 (150)	6 (150)	6 (150)	8 (200)	8 (200)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, cover ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Model No.	1 pc(s).	8018.108	8018.111	8018.112	8018.113	8018.139	8018.140	
Model No. US	1 pc(s).	JB121006H4	JB121206H4	JB141206H4	JB161406H4	JB121008H4	JB161408H4	
Weight lb (kg)		10 (4.5)	11 (5.2)	12 (5.5)	15 (6.7)	11 (5.0)	17 (7.6)	
Accessories								
Wall mounting bracket	4 pc(s).	1594.000	1594.000	1594.000	1594.000	1594.000	1594.000	503



Accessories

Wall Mounting Bracket

from page 503

Wall-Mounted Housing WM



System accessories Page 421 WM carbon steel Page 46

Material:

- Housing: Stainless steel 1.4301 (AISI 304)
- Door: Stainless steel 1.4301 (AISI 304), all-round foamed-in PU seal
- Mounting plate: Carbon steel

Surface finish:

- Housing and door: Brushed, grain 240
- Mounting plate: Zinc-plated

Protection category IP to IEC 60 529:

- IP 55
- IP 66

Protection category NEMA:

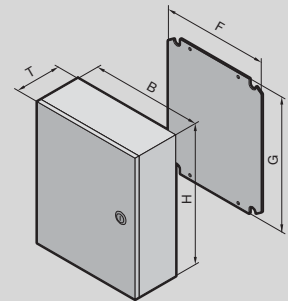
- NEMA 12, 3R, 4X

Approvals:

- UL
- cUL

Supply includes:

- Housing with hinged door(s), of all-round solid construction, door catch on the left on single-door housing
- Mounting plate
- Blind rivet nuts for wall mounting
- Lock: 1 slotted lock insert for a housing height up to 500 mm, 2 slotted lock inserts for a housing height up to 600 – 900 mm, L-handle from housing height 1050 mm



Technical details:

Available on the Internet

Stainless Steel

Height (H) inches (mm)	Packs of	12 (300)	16 (400)	16 (400)	20 (500)	20 (500)	16 (400)	Page
Width (B) inches (mm)		12 (300)	12 (300)	16 (400)	16 (400)	20 (500)	12 (300)	
Depth (T) inches (mm)		6 (150)	6 (150)	6 (150)	6 (150)	6 (150)	8 (210)	
Mounting plate height (G) inches (mm)		11 (275)	15 (375)	15 (375)	19 (475)	19 (475)	15 (375)	
Mounting plate width (F) inches (mm)		10 (254)	10 (254)	14 (354)	14 (354)	18 (449)	10 (254)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Model No.	1 pc(s).	8017.620	8017.614	8017.610	8017.613	8017.616	8017.608	
Model No. US	1 pc(s).	WM121206N4	WM161206N4	WM161606N4	WM201606N4	WM202006N4	WM161208N4	
Door(s)		1	1	1	1	1	1	
Weight lb (kg)		16 (7)	20 (9)	22 (10)	31 (14)	37 (17)	22 (10)	
Accessories								
Wall mounting bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.000	2433.000	2433.000	504
T handle	1 pc(s).	8018.577	8018.577	8018.577	8018.577	8018.577	8018.577	487

Wall-Mounted Housing WM

Stainless Steel

Height (H) inches (mm)	Packs of	20 (500)	20 (500)	24 (600)	24 (600)	24 (600)	30 (760)	Page
Width (B) inches (mm)		16 (400)	20 (500)	16 (400)	20 (500)	24 (600)	24 (600)	
Depth (T) inches (mm)		8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	
Mounting plate height (G) inches (mm)		19 (475)	19 (470)	22 (570)	22 (570)	22 (570)	29 (730)	
Mounting plate width (F) inches (mm)		14 (354)	18 (449)	14 (354)	18 (449)	22 (549)	22 (549)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8017.605	8018.478	8017.621	8017.603	8017.600	8017.607	
Model No. US	1 pc(s).	WM201608N4	WM202008N4	WM241608N4	WM242008N4	WM242408N4	WM302408N4	
Door(s)		1	1	1	1	1	1	
Weight lb (kg)		33 (15)	40 (18)	40 (18)	46 (21)	57 (26)	70 (32)	
Accessories								
Wall mounting bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.000	2433.000	2433.000	504
T handle	1 pc(s).	8018.577	8018.577	8018.577	8018.577	8018.577	8018.577	487

Stainless Steel

Height (H) inches (mm)	Packs of	30 (760)	35 (900)	35 (900)	24 (600)	30 (760)	Page
Width (B) inches (mm)		30 (760)	24 (600)	30 (760)	20 (500)	30 (760)	
Depth (T) inches (mm)		8 (210)	8 (210)	8 (210)	10 (250)	10 (250)	
Mounting plate height (G) inches (mm)		29 (730)	34 (870)	34 (870)	22 (570)	29 (730)	
Mounting plate width (F) inches (mm)		28 (704)	22 (549)	28 (704)	18 (449)	28 (704)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	14 (2.0)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	16 (1.5)	14 (2.0)	
Model No.	1 pc(s).	8017.611	8017.618	8017.615	8017.622	8018.903	
Model No. US	1 pc(s).	WM303008N4	WM362408N4	WM363008N4	WM242010N4	WM303010N4	
Door(s)		1	1	1	1	1	
Weight lb (kg)		86 (39)	90 (41)	110 (50)	49 (22)	88 (40)	
Accessories							
Wall mounting bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.000	2433.000	504
T handle	1 pc(s).	8018.577	8018.577	8018.577	8018.577	8018.577	487

Stainless Steel

Height (H) inches (mm)	Packs of	36 (900)	24 (600)	30 (760)	35 (900)	35 (900)	Page
Width (B) inches (mm)		30 (760)	24 (600)	24 (600)	30 (760)	35 (900)	
Depth (T) inches (mm)		10 (250)	12 (300)	12 (300)	12 (300)	12 (300)	
Mounting plate height (G) inches (mm)		34 (870)	22 (570)	29 (730)	34 (870)	34 (870)	
Mounting plate width (F) inches (mm)		28 (704)	22 (549)	22 (549)	28 (704)	33 (840)	
Material thickness, housing ga (mm)		14 (2.0)	16 (1.5)	16 (1.5)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8017.619	8018.474	8017.612	8017.606	8017.602	
Model No. US	1 pc(s).	WM363010N4	WM242412N4	WM302412N4	WM363012N4	WM363612N4	
Door(s)		1	1	1	1	1	
Weight lb (kg)		111 (53)	62 (28)	77 (35)	121 (55)	146 (66)	
Accessories							
Wall mounting bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.000	2433.000	504
T handle	1 pc(s).	8018.577	8018.577	8018.577	8018.577	8018.577	487

Stainless Steel

Height (H) inches (mm)	Packs of	41 (1050)	47 (1200)	59 (1500)	47 (1200)	59 (1500)	Page
Width (B) inches (mm)		35 (900)	35 (900)	35 (900)	35 (900)	35 (900)	
Depth (T) inches (mm)		12 (300)	12 (300)	12 (300)	16 (400)	16 (400)	
Mounting plate height (G) inches (mm)		40 (1020)	45 (1155)	57 (1455)	45 (1155)	57 (1455)	
Mounting plate width (F) inches (mm)		33 (840)	33 (840)	33 (840)	33 (840)	33 (840)	
Material thickness, housing ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8017.617	8017.601	8017.604	8018.515	8018.521	
Model No. US	1 pc(s).	WM423612N4	WM483612N4	WM603612N4	WM483616N4	WM603616N4	
Door(s)		1	1	1	1	1	
Weight lb (kg)		169 (77)	189 (86)	229 (104)	205 (93)	210 (95)	
Accessories							
Wall mounting bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.000	2433.000	504
L-handle	1 pc(s).	8018.691	8018.691	8018.691	8018.691	8018.691	487



WM stainless steel Page 171 WM stainless steel, with roof slope Page 174

Material:

- Housing: Stainless steel 1.4301 (AISI 304)
- Door: Stainless steel 1.4301 (AISI 304), all-round foamed-in PU seal
- Mounting plate: Carbon steel

Surface finish:

- Housing and door: Brushed, grain 240
- Mounting plate: Zinc-plated

Protection category IP to IEC 60 529:

- IP 55
- IP 66

Protection category NEMA:

- NEMA 12, 3R, 4X

Approvals:

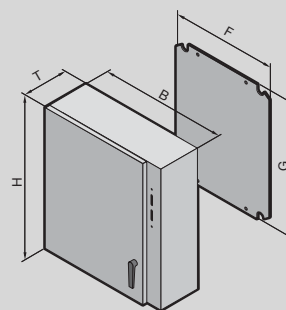
- UL
- cUL

Supply includes:

- Housing with hinged door(s), of all-round solid construction, door catch on the left on single-door housing
- Universal disconnect cutout
- Mounting plate
- Blind rivet nuts for wall mounting
- 2- or 3-point latching L-handle

Technical details:

Available on the Internet



Stainless Steel, for Isolator Lock

Height (H) inches (mm)	Packs of	24 (600)	35 (900)	41 (1050)	47 (1200)	Page
Width (B) inches (mm)		26 (650)	32 (825)	32 (825)	38 (975)	
Depth (T) inches (mm)		8 (210)	12 (300)	12 (300)	16 (400)	
Mounting plate height (G) inches (mm)		22 (570)	34 (870)	40 (1020)	45 (1155)	
Mounting plate width (F) inches (mm)		22 (549)	28 (704)	33 (840)	33 (840)	
Material thickness, housing ga (mm)		16 (1.5)	14 (2.0)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8018.627	8018.633	8018.629	8018.634	
Model No. US	1 pc(s).	WM242608X4	WM363212X4	WM423212X4	WM483816X4	
Door(s)		1	1	1	1	
Locking points		2	2	3	3	
Weight lb (kg)		57 (26)	124 (56)	163 (74)	207 (94)	
Accessories						
Wall mounting bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.000	504
L-handle	1 pc(s).	8018.691	8018.691	8018.691	8018.691	487

Wall-Mounted Housing WM



System accessories Page 421 Hygienic Design Page 163

Material:

- Housing: Stainless steel 1.4301 (AISI 304)
- Door: Stainless steel 1.4301 (AISI 304), all-round foamed-in PU seal
- Mounting plate: Carbon steel

Surface finish:

- Housing and door: Brushed, grain 240
- Mounting plate: Zinc-plated

Protection category NEMA:

- NEMA 1, 12, 3R, 4X

Approvals:

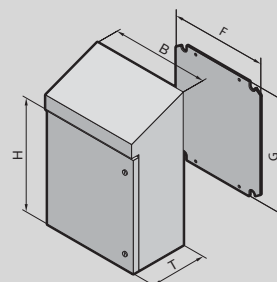
- UL/cUL
- File #: E170282

Supply includes:

- Housing with hinged door(s), of all-round solid construction, door catch on the left on single-door housing
- Mounting plate
- Blind rivet nuts for wall mounting
- Lock: 1 slotted lock insert for a housing height up to 495 mm, 2 slotted lock inserts for a housing height up to 595 – 895 mm, 3-point locking system from housing height 1195 mm

Technical details:

Available on the Internet



Stainless Steel, with Roof Slope

Height (H) inches (mm)	Packs of	16 (395)	16 (395)	19 (495)	23 (595)	Page
Width (B) inches (mm)		12 (300)	16 (400)	20 (500)	24 (600)	
Depth (T) inches (mm)		8 (210)	8 (210)	8 (210)	8 (210)	
Mounting plate height (G) inches (mm)		15 (375)	15 (375)	19 (475)	22 (570)	
Mounting plate width (F) inches (mm)		10 (254)	14 (354)	18 (449)	22 (549)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	14 (2.0)	
Model No.	1 pc(s).	8018.692	8018.693	8018.696	8018.699	
Model No. US	1 pc(s).	WMS20161208N4	WMS161608N4	WMS202008N4	WMS242408N4	
Weight lb (kg)		22 (10)	27 (12)	42 (19)	57 (26)	
Accessories						
Wall mounting bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.000	504

Stainless Steel, with Roof Slope

Height (H) inches (mm)	Packs of	19 (495)	19 (495)	30 (755)	35 (895)	47 (1195)	59 (1495)	Page
Width (B) inches (mm)		16 (400)	20 (500)	24 (600)	30 (760)	35 (900)	35 (900)	
Depth (T) inches (mm)		12 (300)	12 (300)	12 (300)	16 (400)	16 (400)	16 (400)	
Mounting plate height (G) inches (mm)		19 (475)	19 (475)	29 (730)	34 (870)	45 (1155)	57 (1455)	
Mounting plate width (F) inches (mm)		14 (354)	18 (449)	22 (549)	28 (704)	33 (840)	33 (840)	
Material thickness, housing ga (mm)		16 (1.5)	16 (1.5)	16 (1.5)	14 (2.0)	14 (2.0)	14 (2.0)	
Material thickness, door ga (mm)		16 (1.5)	16 (1.5)	14 (2.0)	14 (2.0)	14 (2.0)	14 (2.0)	
Model No.	1 pc(s).	8018.695	8018.697	8018.702	8018.706	8018.708	8018.709	
Model No. US	1 pc(s).	WMS201612N4	WMS202012N4	WMS302412N4	WMS363016N4	WMS483616N4	WMS603616N4	
Weight lb (kg)		37 (17)	46 (21)	79 (36)	139 (63)	209 (95)	251 (114)	
Accessories								
Wall mounting bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.000	2433.000	2433.000	504



System accessories Page 421 **AE carbon steel** Page 42 **Hygienic Design** Page 163

Material:

- Housing: Stainless steel
- Door: Stainless steel, all-round foamed-in PU seal
- Mounting plate: Carbon steel

Surface finish:

- Housing and door: Brushed, grain 240
- Mounting plate: Zinc-plated

Supply includes:

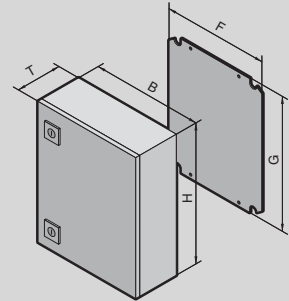
- Housing with door(s)
 - Mounting plate
- Please note the product-specific scope of supply.

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas

Technical details:

Available on the Internet



Stainless Steel

Height (H) inches (mm)		Packs of	12 (300)	12 (300)	12 (300)	12 (300)	12 (300)	12 (300)	Page
Width (B) inches (mm)			8 (200)	8 (200)	8 (200)	12 (300)	15 (380)	15 (380)	
Depth (T) inches (mm)			5 (120)	6 (155)	6 (155)	8 (210)	6 (155)	8 (210)	
Mounting plate width (F) inches (mm)			6 (162)	6 (162)	6 (162)	10 (254)	14 (344)	13 (334)	
Mounting plate height (G) inches (mm)			11 (275)	11 (275)	11 (275)	11 (275)	11 (275)	11 (275)	
Material	Stainless steel 1.4301 (AISI 304)		■	–	■	■	■	■	
	Stainless steel 1.4404 (AISI 316L)		–	■	–	–	–	–	
Material of lock	Stainless steel 1.4404 (AISI 316L)		–	■	–	–	–	–	
	Die-cast zinc, nickel-plated		■	–	■	■	■	■	
Model No.		1 pc(s).	1001.600	1002.500	1002.600	1003.600	1004.600	1011.600	
Weight lb (kg)			8 (3.6)	9 (4.1)	9 (4.1)	15 (6.9)	16 (7.4)	19 (8.4)	
Protection category IP to IEC 60 529			IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA			NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	
Product-specific scope of supply									
Door(s)			1	1	1	1	1	1	
Cam lock			1	1	1	1	1	1	
3-point locking system			–	–	–	–	–	–	
Accessories									
Rails for interior fitting	4 pc(s).		–	–	–	2383.210	–	2383.210	521
Rain canopies, stainless steel	1 pc(s).		–	2470.000	2470.000	2361.000	2471.000	2472.000	499
Wall mounting bracket	4 pc(s).		2433.000	2433.500	2433.000	2433.000	2433.000	2433.000	504
Wall mounting angle	4 pc(s).		2583.010	2583.010	2583.010	2583.010	2583.010	2583.010	505
Pole clamp	1 set(s)		2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	505
Cam locks	1 pc(s).		2304.000	2304.000	2304.000	2304.000	2304.000	2304.000	488
Cam lock HD	1 pc(s).		2304.010	2304.010	2304.010	2304.010	2304.010	2304.010	164
Lock systems			from page	from page	from page	from page	from page	from page	481

Compact Enclosures AE

Stainless Steel

Height (H) inches (mm)	Packs of	15 (380)	15 (380)	15 (380)	15 (380)	15 (380)	20 (500)	Page
Width (B) inches (mm)		12 (300)	12 (300)	15 (380)	15 (380)	24 (600)	16 (400)	
Depth (T) inches (mm)		8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	8 (210)	
Mounting plate width (F) inches (mm)		11 (275)	11 (275)	13 (334)	13 (334)	22 (549)	14 (354)	
Mounting plate height (G) inches (mm)		13 (334)	13 (334)	14 (355)	14 (355)	14 (355)	19 (475)	
Material	Stainless steel 1.4301 (AISI 304)	—	■	—	■	■	■	
	Stainless steel 1.4404 (AISI 316L)	■	—	■	—	—	—	
Material of lock	Stainless steel 1.4404 (AISI 316L)	■	—	■	—	—	—	
	Die-cast zinc, nickel-plated	—	■	—	■	■	■	
Model No.	1 pc(s).	1005.500	1005.600	1006.500	1006.600	1009.600	1015.600	
Weight lb (kg)		19 (8.4)	19 (8.4)	22 (9.8)	22 (9.8)	32 (14.6)	28 (12.9)	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Cam lock		1	1	1	1	1	2	
3-point locking system		—	—	—	—	—	—	
Accessories								
Rails for interior fitting	4 pc(s).	2383.210	2383.210	2383.210	2383.210	2383.210	2383.210	521
Rain canopies, stainless steel	1 pc(s).	2361.000	2361.000	2472.000	2472.000	2473.000	—	499
Wall mounting bracket	4 pc(s).	2433.500	2433.000	2433.500	2433.000	2433.000	2433.000	504
Wall mounting angle	4 pc(s).	2583.010	2583.010	2583.010	2583.010	2583.010	2583.010	505
Pole clamp	1 set(s)	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	505
Cam locks	1 pc(s).	2304.000	2304.000	2304.000	2304.000	2304.000	2304.000	488
Cam lock HD	1 pc(s).	2304.010	2304.010	2304.010	2304.010	2304.010	2304.010	164
Lock systems		from page	from page	from page	from page	from page	from page	481

Stainless Steel

Height (H) inches (mm)	Packs of	20 (500)	20 (500)	24 (600)	24 (600)	24 (600)	30 (760)	Page
Width (B) inches (mm)		20 (500)	20 (500)	15 (380)	24 (600)	24 (600)	24 (600)	
Depth (T) inches (mm)		8 (210)	12 (300)	8 (210)	8 (210)	8 (210)	8 (210)	
Mounting plate width (F) inches (mm)		18 (449)	18 (449)	13 (334)	22 (549)	22 (549)	22 (549)	
Mounting plate height (G) inches (mm)		19 (470)	19 (470)	22 (570)	22 (570)	22 (570)	29 (730)	
Material	Stainless steel 1.4301 (AISI 304)	■	■	■	—	■	■	
	Stainless steel 1.4404 (AISI 316L)	—	—	—	■	—	—	
Material of lock	Stainless steel 1.4404 (AISI 316L)	—	—	—	■	—	—	
	Die-cast zinc, nickel-plated	■	■	■	—	■	■	
Model No.	1 pc(s).	1007.600	1013.600	1008.600	1010.500	1010.600	1012.600	
Weight lb (kg)		35 (15.7)	41 (18.4)	33 (15.1)	52 (23.5)	52 (23.5)	67 (30.2)	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Cam lock		2	2	2	2	2	2	
3-point locking system		—	—	—	—	—	—	
Accessories								
Rails for interior fitting	4 pc(s).	2383.210	2383.300	2383.210	2383.210	2383.210	2383.210	521
Rain canopies, stainless steel	1 pc(s).	2362.000	—	2472.000	2473.000	2473.000	2473.000	499
Wall mounting bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.500	2433.000	2433.000	504
Wall mounting angle	4 pc(s).	2583.010	2583.010	2583.010	2583.010	2583.010	2583.010	505
Pole clamp	1 set(s)	2584.000	2584.000	2584.000	2584.000	2584.000	2584.000	505
Cam locks	1 pc(s).	2304.000	2304.000	2304.000	2304.000	2304.000	2304.000	488
Cam lock HD	1 pc(s).	2304.010	2304.010	2304.010	2304.010	2304.010	2304.010	164
Lock systems		from page	from page	from page	from page	from page	from page	481

Stainless Steel

Height (H) inches (mm)	Packs of	30 (760)	39 (1000)	39 (1000)	47 (1200)	47 (1200)	47 (1200)	Page
Width (B) inches (mm)		30 (760)	32 (800)	39 (1000)	32 (800)	39 (1000)	39 (1000)	
Depth (T) inches (mm)		12 (300)	12 (300)	12 (300)	12 (300)	12 (300)	12 (300)	
Mounting plate width (F) inches (mm)		28 (704)	29 (739)	37 (939)	29 (740)	37 (940)	37 (940)	
Mounting plate height (G) inches (mm)		29 (730)	38 (955)	38 (955)	45 (1155)	45 (1155)	45 (1155)	
Material	Stainless steel 1.4301 (AISI 304)	■	■	■	■	■	■	
	Stainless steel 1.4404 (AISI 316L)	—	—	—	—	■	—	
Material of lock	Stainless steel 1.4301 (AISI 304)	—	—	—	■	■	■	
	Die-cast zinc, nickel-plated	■	■	■	—	—	—	
Model No.	1 pc(s).	1014.600	1016.600	1018.600	1017.600	1019.500	1019.600	
Weight lb (kg)		94 (42.5)	117 (52.9)	157 (71.0)	136 (61.5)	168 (76.0)	168 (76.0)	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 55	IP 66	IP 55	IP 55	
Protection category NEMA		NEMA 4X	NEMA 4X	NEMA 12	NEMA 4X	NEMA 12	NEMA 12	
Product-specific scope of supply								
Door(s)		1	1	2	1	2	2	
Cam lock		2	2	2	—	—	—	
3-point locking system		—	—	—	■	■	■	
Accessories								
Rails for interior fitting	4 pc(s).	2383.300	2383.300	2383.300	2383.300	2383.300	2383.300	521
Rain canopies, stainless steel	1 pc(s).	2474.000	2475.000	2363.000	2475.000	2363.000	2363.000	499
Wall mounting bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.000	2433.500	2433.000	504
Wall mounting angle	4 pc(s).	2583.010	2583.010	2583.010	2583.010	2583.010	2583.010	505
Pole clamp		—	—	—	—	—	—	
Cam locks	1 pc(s).	2304.000	2304.000	2304.000	—	—	—	488
Cam lock HD	1 pc(s).	2304.010	2304.010	2304.010	—	—	—	164
Lock systems		from page	from page	from page	from page	from page	from page	481

Accessories



Cable Gland HD

See page 568

TS 8 Floormount Enclosure



System accessories Page 421 TS 8 floormount enclosure, carbon steel Page 79

Material and surface finish:

- Enclosure frame: Stainless steel 1.4301 (AISI 304), 1.5 mm, exterior brushed, grain size 400
- Roof: Stainless steel 1.4301 (AISI 304), 1.5 mm, exterior brushed, grain size 400
- Door: Stainless steel 1.4301 (AISI 304), 2 mm, exterior brushed, grain size 400
- Rear wall: Stainless steel 1.4301 (AISI 304), 1.5 mm, exterior brushed, grain size 400
- Sidewalls: Stainless steel 1.4301 (AISI 304), 1.5 mm, exterior brushed, grain size 400
- Mounting plate: Carbon steel, 3 mm, zinc-plated
- Base plate: Stainless steel 1.4301 (AISI 304), 1.5 mm, uncoated
- Pedestals: Stainless steel 1.4301 (AISI 304), 2.5 mm, exterior brushed, grain size 400

Protection category:

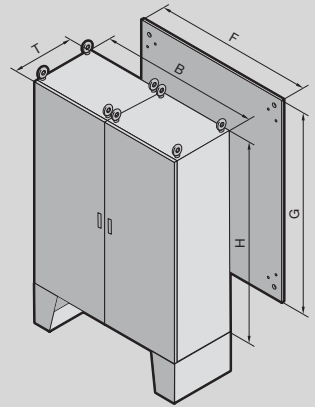
- NEMA 4X
(IP 66 to IEC 60 529)
- UL/cUL
- UL file #: E76083

Supply includes:

- 2 bayed enclosure frames
- Baying kit NEMA 4X
- Roof
- Door(s)
- Rear wall
- Sidewall
- Mounting plate, installed at the sides via slide rails
- Base plate
- Pedestals 300 mm, screw-fastening kit
- Lock: 3 mm double-bit

Technical details:

Available on the Internet



IP 66/NEMA 4X

Height (H) inches (mm)	Packs of	63 (1600)	79 (2000)	79 (2000)	Page
Width (B) inches (mm)		47 (1200)	63 (1600)	63 (1600)	
Depth (T) inches (mm)		16 (400)	16 (400)	24 (600)	
Mounting plate height (G) inches (mm)		59 (1496)	75 (1896)	75 (1896)	
Mounting plate width (F) inches (mm)		43 (1099)	59 (1499)	59 (1499)	
Model No.	1 pc(s).	9978.429	9978.431	9978.432	
Weight lb (kg)		359 (163)	553 (251)	580 (264)	

Accessories

Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4192.000	574
TS Support Strips	1 pc(s).	4596.000	4598.000	4598.000	525
Wiring Plan Pockets, Carbon Steel	1 pc(s).	4116.000	4118.000	4118.000	497
Lock Systems		from page	from page	from page	478



System accessories Page 421 **SE 8 carbon steel** Page 80

The enclosure system is based on the TS 8 platform. Fully compatible with TS 8 system accessories for interior installation.

Material and surface finish:

- Housing: Stainless steel 1.4301 (AISI 304), 1.5 mm, exterior brushed, grain 400
- Door: Stainless steel 1.4301 (AISI 304), 2 mm, exterior brushed, grain 400
- Rear wall: Stainless steel 1.4301 (AISI 304), 1.5 mm, exterior brushed, grain 400
- Mounting plate: Carbon steel, 3 mm, zinc-plated
- Base plates: Stainless steel 1.4301 (AISI 304), 1.5 mm, uncoated

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

Supply includes:

- Housing, solid top and sides
- Door(s)
- Right-hand door catch on single-door enclosures may be swapped to the left
- Rear wall, one-piece, detachable
- Mounting plate
- Base plates
- Lock: 3 mm double-bit

Note:

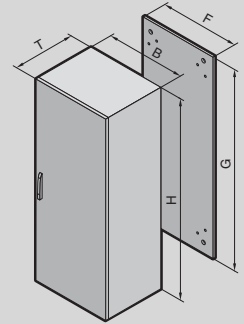
- Due to the hardness of the material, we recommend using metal multi-tooth screws for the interior installation.

Approvals:

- UL
- cUL

Technical details:

Available on the Internet



Stainless Steel

Height (H) inches (mm)	Packs of	63 (1600)	71 (1800)	71 (1800)	79 (2000)	71 (1800)	79 (2000)	Page
Width (B) inches (mm)		24 (600)	24 (600)	32 (800)	32 (800)	39 (1000)	47 (1200)	
Depth (T) inches (mm)		16 (400)	20 (500)	20 (500)	24 (600)	16 (400)	20 (500)	
Mounting plate width (F) inches (mm)		20 (499)	20 (499)	28 (699)	28 (699)	35 (899)	43 (1099)	
Mounting plate height (G) inches (mm)		59 (1496)	67 (1696)	67 (1696)	75 (1896)	67 (1696)	75 (1896)	
Model No.	1 pc(s).	5850.500	5851.500	5852.500	5853.500	5854.500	5855.500	
Door(s)		1	1	1	1	1	2	
Weight lb (kg)		192 (87.0)	218 (99.0)	267 (121.0)	306 (139.0)	293 (133.0)	432 (196.0)	

Accessories

Base/plinth trim panels, side, 4" (100 mm)	1 set(s)	8701.040	8701.050	8701.050	8701.060	8701.040	8701.050	432
Base/plinth components, front and rear, 4" (100 mm)	1 set(s)	8701.600	8701.600	8701.800	8701.800	8701.000	8701.200	432
Base/plinth trim panels, side, 8" (200 mm)	1 set(s)	8702.040	8702.050	8702.050	8702.060	8702.040	8702.050	432
Base/plinth components, front and rear, 8" (200 mm)	1 set(s)	8702.600	8702.600	8702.800	8702.800	8702.000	8702.200	432
Transportation eyebolts	4 pc(s).	4568.500	4568.500	4568.500	4568.500	4568.500	4568.500	502
Rail systems		from page	from page	from page	from page	from page	from page	518
Cable clamp rails	2 pc(s).	4191.000	4191.000	4192.000	4192.000	4336.000	4196.000	574
Leveling feet	4 pc(s).	4612.000	4612.000	4612.000	4612.000	4612.000	4612.000	435
Wiring plan pockets, carbon steel	1 pc(s).	4116.000	4116.000	4118.000	4118.000	4124.000	4116.000	497
Metal multi-tooth screws	300 pc(s).	2486.300	2486.300	2486.300	2486.300	2486.300	2486.300	539
System lights		from page	from page	from page	from page	from page	from page	545
Ground straps		see page	see page	see page	see page	see page	see page	555
Snap-on nut TS		see page	see page	see page	see page	see page	see page	533
Cable ducts for vertical TS section		see page	see page	see page	see page	see page	see page	572
Door stays		from page	from page	from page	from page	from page	from page	497
Lock systems		from page	from page	from page	from page	from page	from page	481

System Enclosures SE 8



System accessories Page 421 **SE 8 carbon steel** Page 80

The enclosure system is based on the TS 8 platform. Fully compatible with TS 8 system accessories for interior installation.

Material and surface finish:

- Housing: Stainless steel 1.4301 (AISI 304), 1.5 mm, exterior brushed, grain 400
- Door: Stainless steel 1.4301 (AISI 304), 2 mm, exterior brushed, grain 400
- Rear wall: Stainless steel 1.4301 (AISI 304), 1.5 mm, exterior brushed, grain 400
- Mounting plate: Carbon steel, 3 mm, zinc-plated
- Base: Stainless steel 1.4301 (AISI 304), 1.5 mm, uncoated

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4X

Supply includes:

- Housing, solid top and sides
- Door(s)
- Door catch on right, may be swapped to the left
- Rear wall
- Mounting plate
- Base, solid
- Lock: 3 mm double-bit

Note:

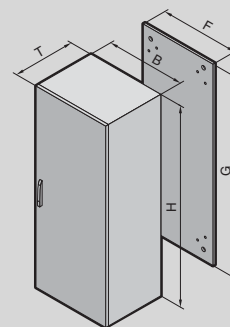
- Due to the hardness of the material, we recommend using metal multi-tooth screws for the interior installation.

Approvals:

- UL
- cUL

Technical details:

Available on the Internet



IP 66/NEMA 4X

Height (H) inches (mm)	Packs of	63 (1600)	71 (1800)	79 (2000)	Page
Width (B) inches (mm)		24 (600)	32 (800)	32 (800)	
Depth (T) inches (mm)		16 (400)	20 (500)	24 (600)	
Mounting plate width (F) inches (mm)		20 (499)	28 (699)	28 (699)	
Mounting plate height (G) inches (mm)		59 (1496)	67 (1696)	75 (1896)	
Model No.	1 pc(s).	5850.580	5852.580	5853.580	
Accessories					
Base/plinth trim panels, side, 4" (100 mm)	1 set(s)	8701.040	8701.050	8701.060	432
Base/plinth components, front and rear, 4" (100 mm)	1 set(s)	8701.600	8701.800	8701.800	432
Base/plinth trim panels, side, 8" (200 mm)	1 set(s)	8702.040	8702.050	8702.060	432
Base/plinth components, front and rear, 8" (200 mm)	1 set(s)	8702.600	8702.800	8702.800	432
Transportation eyebolts	4 pc(s).	4568.500	4568.500	4568.500	502
Rail systems		from page	from page	from page	518
Cable clamp rails	2 pc(s).	4191.000	4192.000	4192.000	574
Wiring plan pockets, carbon steel	1 pc(s).	4116.000	4118.000	4118.000	497
System lights		from page	from page	from page	545
Ground straps		see page	see page	see page	555
Metal multi-tooth screws	300 pc(s).	2486.300	2486.300	2486.300	539
Snap-on nut TS		see page	see page	see page	533
Cable ducts for vertical TS section		see page	see page	see page	572
Door stay for escape routes	1 pc(s).	4583.500	4583.500	4583.500	497
Lock systems		from page	from page	from page	481



System accessories Page 421 **Keyboards** Page 610 **Climate control** Page 233 **One-piece consoles, carbon steel** Page 113

Material:

- Housing: Stainless steel 1.4301 (AISI 304), 1.5 mm
- Door or double door and console lid: Stainless steel 1.4301 (AISI 304), 2.0 mm
- Mounting plate: Carbon steel, 3.0 mm

Surface finish:

- Housing, door, console lid and base plates: Brushed, grain 120
- Mounting plate: Zinc-plated

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

Supply includes:

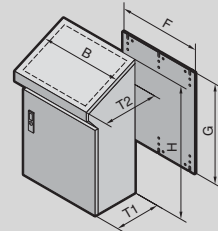
- Housing, solid back and sides
- Door or double door at front, with locking rod
- Console lid with lid stay and cam lock latched in the housing
- Locks with double-bit insert
- Base plates, divided
- Mounting plate

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping

Technical details:

Available on the Internet



Stainless steel

Height (H) inches (mm)	Packs of	38 (960)	38 (960)	38 (960)	38 (960)	Page
Width (B) inches (mm)		24 (600)	32 (800)	39 (1000)	47 (1200)	
Depth, bottom (T1) inches (mm)		16 (400)	16 (400)	16 (400)	16 (400)	
Depth, top (T2) inches (mm)		19 (480)	19 (480)	19 (480)	19 (480)	
Mounting plate width (F) inches (mm)		21 (530)	29 (730)	37 (930)	44 (1130)	
Mounting plate height (G) inches (mm)		31 (780)	31 (780)	31 (780)	31 (780)	
Model No.	1 pc(s).	2683.600	2684.600	2685.600	2686.600	
Door(s)		1	1	2	2	
Weight lb (kg)		114 (52.0)	143 (65.2)	175 (79.5)	199 (90.3)	
Accessories						
Base/Plinth, Complete, 4" (100 mm)	1 pc(s).	2865.000	2869.000	2867.000	2870.000	433
Cable Clamp Rails	2 pc(s).	4191.000	4192.000	4336.000	4196.000	574
Support Rails TS 35/15	6 pc(s).	4934.000	4935.000	4933.000	4937.000	530
Hose-Proof Hood		see page	see page	see page	see page	308
Lock Systems		from page	from page	from page	from page	481

PB Pushbutton Box



System accessories Page 421 **PB pushbutton box, carbon steel** Page 123

Designed to house commercially available pushbuttons, selector switches and pilot lights.

- Hole size 30 mm
- With 1 – 2 bore holes
- Simple, fast mounting

Material:

- Housing: Stainless steel 1.4301 (AISI 304), 1.25 mm
- Cover: Stainless steel 1.4301 (AISI 304), 1.25 mm

Surface finish:

- Housing and cover: Brushed, grain 240

Supply includes:

- Pushbutton box
- Cover screws, captive
- Seal

Protection category:

- UL Type 12, 13

Approvals:

- UL/cUL
- UL file #: E118617

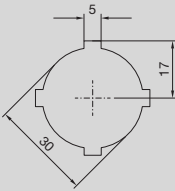
Model no. overview:

See page 623

Technical details:

Available on the Internet

Hole



Holes are centered on the cover

Stainless steel

Model No.	8017.714	8017.715	Page
Model No. US	PB01305S14	PB02305S14	
Height inches (mm)	3.5 (88)	5.7 (146)	
Width inches (mm)	3.2 (82)	3.2 (82)	
Depth inches (mm)	2.7 (69)	2.7 (69)	
Weight lb (kg)	2.3 (1.0)	3.8 (1.7)	
Hole diameter mm	30	30	
Number of holes	1	2	
Accessories			
Oiltight Hole Seals	see page	see page	449
Wall Mounting Bracket	1594.000	1594.000	503

Command Panel Housing with Door



System accessories Page 421 **CP 40 support arm system, stainless steel** Page 132 **Hygienic Design** Page 161

Material:

- Housing and door: Stainless steel 1.4301 (AISI 304)
- Handle strips: Plastic approved for use with foodstuffs

Surface finish:

- Brushed, grain 240

Color:

- Handle strips: Similar to RAL 5002

Protection category IP to IEC 60 529:

- IP 66

Approvals:

- UL
- TÜV
- CSA

Supply includes:

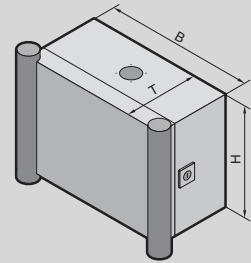
- Housing of all-round solid construction
- Cut-out and reinforcement for support arm system CP 40 stainless steel
- Fastener with guide plate
- Door with sealing frame and side handle strips
- Lock: 3 mm double-bit

Note:

- The support arm connection and door catch may be swapped over by rotating the housing
- Matching mounting plates from compact enclosures AE may be used
- 3 mm double-bit lock insert may be exchanged for 41 mm lock inserts, plastic handles and T handles, type C

Technical details:

Available on the Internet



Stainless steel

Height (H) inches (mm)	Packs of	12 (300)	12 (300)	16 (400)	16 (400)	Page
Width (B) inches (mm)		12 (300)	16 (400)	16 (400)	24 (600)	
Depth (T) inches (mm)		6 (150)	6 (150)	6 (150)	6 (150)	
Model No.	1 pc(s).	6535.010	6536.010	6538.010	6539.010	
Weight lb (kg)		13.9 (6.3)	16.5 (7.5)	19.4 (8.8)	26.6 (12.1)	
Accessories						
Support Rails TS 35/7.5	10 pc(s).	2316.000	2317.000	2317.000	–	530
Lock Systems		from page	from page	from page	from page	481

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Ex Housings

Ex Housings

Stainless steel, empty housing with screw-fastened cover	186
Stainless steel, empty housing with hinged door	187



Ex Housings



System Accessories Page 421

Applications:

- Zone 1 and 2 or 21 and 22 to 94/9/EC
- Ambient temperature range: -22°F...+176°F
- Protection type to EN 60 079: Equipment protection due to increased safety, equipment protection due to housing

Material:

- Housing: Stainless steel 1.4301 (AISI 304)
- Cover: Stainless steel 1.4301 (AISI 304), all-round foamed-in silicone seal

Surface finish:

- Housing: Brushed, grain 240

Protection category IP to IEC 60 529:

- IP 66

Supply includes:

- Housing
- Cover

Certificates:

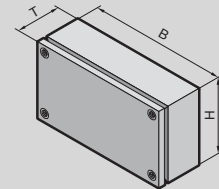
- PTB 03 ATEX 1013U
- IEC Ex PTB 09.0033U

Approvals:

- ATEX
- IEC

Technical details:

Available on the Internet



Stainless steel, empty housing with screw-fastened cover

Height (H) inches (mm)	Packs of	6 (150)	8 (200)	6 (150)	8 (200)	12 (300)	8 (200)	Page
Width (B) inches (mm)		6 (150)	8 (200)	12 (300)	12 (300)	12 (300)	16 (400)	
Depth (T) inches (mm)		3 (80)	3 (80)	3 (80)	3 (80)	5 (120)	5 (120)	
Model No.	1 pc(s).	9301.000	9303.000	9302.000	9304.000	9306.000	9305.000	
Weight lb (kg)		2.9 (1.3)	4.0 (1.8)	4.0 (1.8)	5.3 (2.4)	8.6 (3.9)	7.9 (3.6)	
Accessories								
Mounting Plates	1 pc(s).	1560.700	1562.700	1561.700	1563.700	1567.700	1564.700	507
Wall Mounting Bracket	4 pc(s).	1594.000	1594.000	1594.000	1594.000	1594.000	1594.000	503
Support Rails TS 35/7.5	10 pc(s).	2314.000	2315.000	2316.000	2316.000	2316.000	2317.000	530
Ground Straps		see page	see page	see page	see page	see page	see page	555



System Accessories Page 421

Applications:

- Zone 1 and 2 or 21 and 22 to 94/9/EC
- Ambient temperature range: -22°F...+176°F
- Protection type to EN 60 079: Equipment protection due to increased safety, equipment protection due to housing

Material:

- Housing: Stainless steel 1.4301 (AISI 304)
- Door: Stainless steel 1.4301 (AISI 304), all-round foamed-in silicone seal
- Mounting plate: Carbon steel

Surface finish:

- Housing: Brushed, grain 240
- Mounting plate: Zinc-plated

Protection category IP to IEC 60 529:

- IP 66

Supply includes:

- Housing
- Door
- Mounting plate

Certificates:

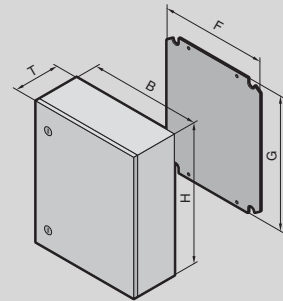
- PTB 02 ATEX 1082U
- IEC Ex PTB 09.0035U

Approvals:

- ATEX
- IEC

Technical details:

Available on the Internet



Stainless steel, empty housing with hinged door

Height (H) inches (mm)	Packs of	12 (300)	15 (380)	12 (300)	15 (380)	24 (600)	24 (600)	30 (760)	30 (760)	39 (1000)	Page
Width (B) inches (mm)		8 (200)	12 (300)	15 (380)	15 (380)	15 (380)	24 (600)	24 (600)	30 (760)	32 (800)	
Depth (T) inches (mm)		6 (155)	8 (210)	6 (155)	8 (210)	8 (210)	8 (210)	8 (210)	12 (300)	12 (300)	
Mounting plate width (F) inches (mm)		6 (162)	13 (334)	13 (334)	13 (334)	13 (334)	22 (549)	22 (549)	28 (704)	29 (739)	
Mounting plate height (G) inches (mm)		11 (275)	11 (275)	11 (275)	14 (355)	22 (570)	22 (570)	29 (730)	29 (730)	38 (955)	
Model No.	1 pc(s).	9401.600	9409.600	9402.600	9403.600	9404.600	9405.600	9406.600	9407.600	9408.600	
Cam lock with 3 mm double-bit insert		1	1	1	1	2	2	2	2	2	
Reinforcement section in the door		–	–	–	–	–	■	■	■	■	
Weight (lb) kg		8.4 (3.8)	17.0 (7.7)	16.3 (7.4)	21.3 (9.7)	29.3 (13.3)	34.3 (15.6)	49.1 (22.3)	67.1 (30.5)	79.9 (36.3)	

Accessories

Wall Mounting Bracket	4 pc(s).	2433.000	2433.000	2433.000	2433.000	2433.000	2433.000	2433.000	2433.000	2433.000	504
Support Rails TS 35/7.5	10 pc(s).	2315.000	2316.000	–	–	–	–	–	–	–	530
Rails for Interior Fitting	4 pc(s).	–	2383.210	–	2383.210	2383.210	2383.210	2383.210	2383.300	2383.300	521
Support Rails TS 35/15	10 pc(s).	–	–	–	–	–	2319.000	2319.000	–	–	530
Ground Straps		see page	see page	see page	see page	see page	see page	see page	see page	see page	555

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Power Distribution

Busbar Systems

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Ri4Power Form 1-4

Maxi-PLS Busbar Systems	229
Rittal Power Engineering	231



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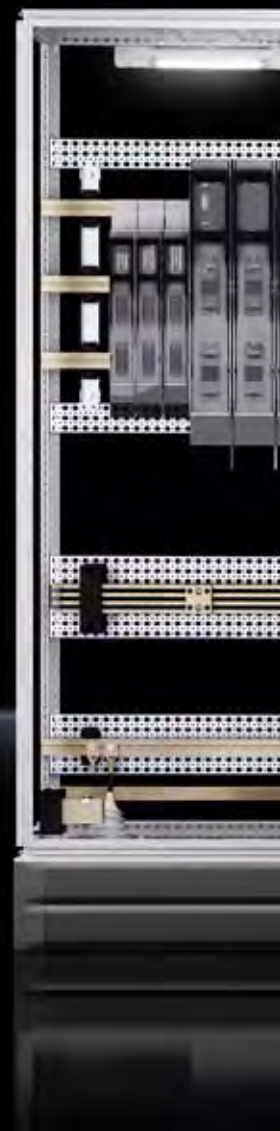
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Busbar Systems

RiLine Busbar Systems (60 mm)

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RiLine

Busbar systems 3-pole and DC

Holder + busbars + contact hazard protection

- Flat copper busbar system, see page 198
- PLS busbar system, see page 200
- Accessories, see page 217

Connection systems 3-pole

- Connection adapters, see page 202
- Terminals, see page 223
- Connection block, see page 224
- Accessories, see page 223

Component adapters 3-pole

- OM adapters, see page 204
- Circuit-breaker component adapters, see page 208
- Accessories, see page 225

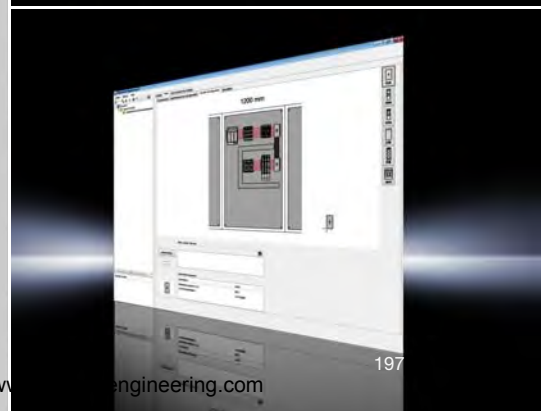
Fuse elements 3-pole

- NH fuse-switch disconnectors, see page 213
- Fuse holders, see page 215
- Accessories, see page 228

Rittal Power Engineering with update function

Model No. 3020.500,
see page 231

- Configuration of RiLine busbar systems
- Simple component selection, integrated switchgear database
- Automatic calculation of rated currents and power dissipation



RiLine Busbar Systems up to 800 A (60 mm)



Connection adapters Page 202 **OM adapters** Page 204 **Fuse elements** Page 213

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

- UL approval only applies in conjunction with AC applications
- The use of a base tray is required for UL applications

Technical details:

Available on the Internet

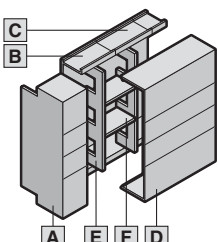
Flat copper busbar system

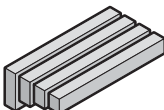
Busbar supports					
					
Number of poles	Packs of	3-pole	3-pole	3-pole	Page
Busbar center distance mm		60	60	60	
With external attachment		■	–	–	
With internal attachment		–	■	■	
For busbars mm	12 x 5/10	■	■	–	
	15 x 5 – 25 x 10, 30 x 5	■	■	■	
	30 x 10	■	■	■	
Rated operating voltage V, ~		1000, 3~	1000, 3~	1000, 3~	
		–	–	1500 (DC)	
Approvals		–	–	UL	
Model No.	4 pc(s).	9340.010	9340.000	9340.050	
Also required					
Spacers when using 12 x 5/10 mm busbars		■	■	–	
Model No.	12 pc(s).	9340.090	9340.090	–	217

RiLine Busbar Systems up to 800 A (60 mm)

Flat copper busbar system

Busbar supports					
					
Number of poles	Packs of	3-pole	3-pole	3-pole	Page
Busbar center distance mm		60	60	60	
Model No.	4 pc(s).	9340.010	9340.000	9340.050	198
Also required					
Spacer when using 12 x 5/10 mm busbars		■	■	–	
Model No.	12 pc(s).	9340.090	9340.090	–	217

Contact hazard protection								
	Components	Length inches (mm)	Approvals	Packs of	Model No.			Page
	A End covers	–	UL	2 pc(s).	9340.070	9340.070	9340.070	–
	B Base trays	20 (500)	UL	2 pc(s).	–	9340.100	9340.100	222
		28 (700)	UL	2 pc(s).	–	9340.110	9340.110	222
		35 (900)	UL	2 pc(s).	–	9340.120	9340.120	222
		43 (1100)	UL	2 pc(s).	–	9340.130	9340.130	222
		94 (2400)	UL	1 pc(s).	–	9340.170	9340.170	222
	C Base tray infills	4 (100)	UL	2 pc(s).	–	9340.140	9340.140	222
	D Cover sections	28 (700)	UL	2 pc(s).	–	9340.200	9340.200	222
		43 (1100)	UL	2 pc(s).	–	9340.210	9340.210	222
	E Support panels	–	UL	5 pc(s).	–	9340.220	9340.220	222
	F Cross members	6 (160)	UL	2 pc(s).	–	–	9340.230	222

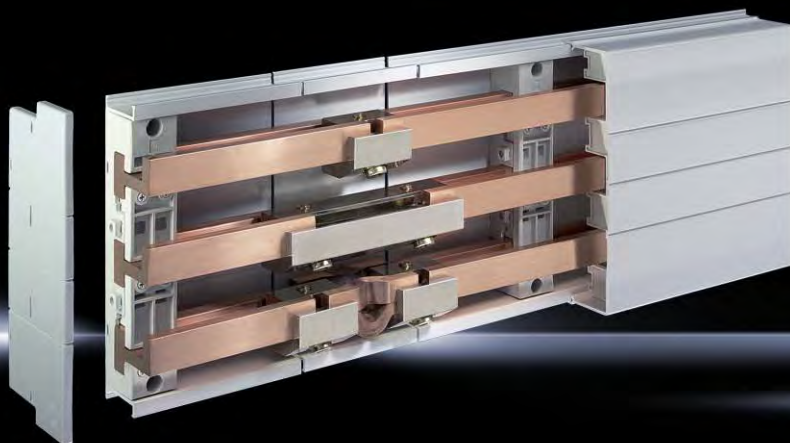
Busbars E-Cu, length: 94" (2400 mm)/bar									
	Dimensions mm	Max. rated current A to		Approvals	Packs of	Model No.			Page
		DIN EN	UL 508						
	12 x 5	210	—		6 pc(s).	3580.000	3580.000	3580.000	218
	12 x 10	340	—		6 pc(s).	3580.100	3580.100	3580.100	218
	15 x 5	260	175		6 pc(s).	3581.000	3581.000	3581.000	218
	15 x 10	360	350		6 pc(s).	3581.100	3581.100	3581.100	218
	20 x 5	319	230		6 pc(s).	3582.000	3582.000	3582.000	218
	20 x 10	497	465		3 pc(s).	3585.005	3585.005	3585.005	218
	25 x 5	384	290		6 pc(s).	3583.000	3583.000	3583.000	218
	30 x 5	447	350		6 pc(s).	3584.000	3584.000	3584.000	218
	30 x 10	800	700		3 pc(s).	3586.005	3586.005	3586.005	218

Busbars CUPONAL, length: 94" (2400 mm)/bar									
	Dimensions mm	Max. rated current A to		Approvals	Packs of	Model No.			Page
		DIN EN	UL 508						
	20 x 5	235	–	–	6 pc(s).	–	3582.020	3582.020	218
	20 x 10	363	–	–	3 pc(s).	–	3585.020	3585.020	218
	30 x 5	328	–	–	6 pc(s).	–	3584.020	3584.020	218
	30 x 10	493	–	–	3 pc(s).	–	3586.020	3586.020	218

Accessories							
Components	For busbars mm	Approvals	Packs of	Model No.			Page
Busbar connectors for single connection	12 x 5 – 15 x 10	UL	3 pc(s).	9350.075	9350.075	9350.075	220
	20 x 5 – 30 x 10	UL	3 pc(s).	9320.020	9320.020	9320.020	220
Busbar connectors for baying connection ¹⁾	20 x 5 – 30 x 10	UL	3 pc(s).	9320.030	9320.030	9320.030	220
Busbar cover sections Length: 39" (1000 mm)/section	12 x 5 – 30 x 10	UL	10 pc(s).	3092.000	3092.000	3092.000	219
	12/15 x 5	UL	4 pc(s).	9350.010	9350.010	9350.010	219
	12/15 x 10	UL	4 pc(s).	9350.060	9350.060	9350.060	219

¹⁾ Connection from enclosure to enclosure

RiLine Busbar Systems 800 A/1600 A (60 mm)



Connection systems Page 202 **OM adapters** Page 204 **Fuse elements** Page 213

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

- UL approval only applies in conjunction with AC applications
- The use of a base tray is required for UL applications

Technical details:

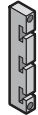
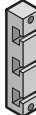
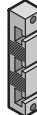
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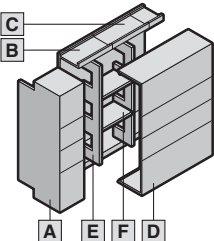
PLS busbar system

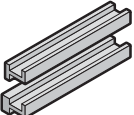
Busbar supports					
					
For Rittal system	Packs of	PLS 800		PLS 1600	
Number of poles		3-pole	3-pole	3-pole	3-pole
Busbar center distance mm		60	60	60	60
With internal attachment		■	■	■	■
Busbar support, suitable for top mounting		■	■	■	■
Rated operating voltage V, ~		1000, 3~	1000, 3~	1000, 3~	1000, 3~
		–	1500 (DC)	–	1500 (DC)
Approvals		–	UL	–	UL
Model No.	4 pc(s).	9341.000	9341.050	9342.000	9342.050

RiLine Busbar Systems 800 A/1600 A (60 mm)

PLS busbar system

Busbar supports						
						
For Rittal system	Packs of	PLS 800		PLS 1600		Page
Number of poles		3-pole	3-pole	3-pole	3-pole	
Busbar center distance mm		60	60	60	60	
Model No.	4 pc(s).	9341.000	9341.050	9342.000	9342.050	200

Contact hazard protection									
	Components	Length inches (mm)	Approvals	Packs of	Model No.		Model No.		Page
	A End covers	–	UL	2 pc(s).	9341.070	9341.070	9342.070	9342.070	–
	B Base trays	20 (500)	UL	2 pc(s).	9341.100	9341.100	9342.100	9342.100	222
		28 (700)	UL	2 pc(s).	9341.110	9341.110	9342.110	9342.110	222
		35 (900)	UL	2 pc(s).	9341.120	9341.120	9342.120	9342.120	222
		43 (1100)	UL	2 pc(s).	9341.130	9341.130	9342.130	9342.130	222
		94 (2400)	UL	1 pc(s).	9341.170	9341.170	9342.170	9342.170	222
	C Base tray infills	4 (100)	UL	2 pc(s).	9341.140	9341.140	9342.140	9342.140	222
	D Cover sections	28 (700)	UL	2 pc(s).	9340.200	9340.200	9340.200	9340.200	222
		43 (1100)	UL	2 pc(s).	9340.210	9340.210	9340.210	9340.210	222
	E Support panels	–	UL	5 pc(s).	9340.220	9340.220	9340.220	9340.220	222
	F Cross members	6 (160)	UL	2 pc(s).	–	9340.230	–	9340.230	222

PLS special busbars E-Cu									
	Version			Packs of	PLS 800		PLS 1600		Page
	Bar cross-section mm ²				300		900		
	Bar thickness mm				5		10		
	Max. rated current A to	DIN EN			800		1600		
		UL 508			700		1400		
	Length inches (mm)	For enclosure width inches (mm)	Approvals		Model No.		Model No.		
	19 (495)	24 (600)	UL	3 pc(s).	3524.000		3527.000		219
	27 (695)	32 (800)	UL	3 pc(s).	3525.000		3528.000		219
	35 (895)	39 (1000)	UL	3 pc(s).	3525.010		3528.010		219
	43 (1095)	47 (1200)	UL	3 pc(s).	3526.000		3529.000		219
	94 (2400)	various	UL	1 pc(s).	3509.000		3516.000		219

Accessories							
Components			Approvals	Packs of	Model No.	Model No.	Page
PLS busbar connectors	Single connection			3 pc(s).	3504.000	3514.000	220
	Baying connection ¹⁾			3 pc(s).	3505.000	3515.000	220
PLS Expansion connectors ²⁾				3 pc(s).	9320.060	9320.070	220

¹⁾ Connection from enclosure to enclosure

²⁾ Two PLS busbar connectors (single connectors) are needed to fit one expansion connector

Connection Adapters



Busbar system Page 198 **OM adapters** Page 204 **Circuit-breaker component adapters** Page 208 **Fuse elements** Page 213

Material:

- Cover: ABS
- Chassis: Polyamide (PA 6.6)
- Chassis 3439.010: Fiberglass-reinforced, thermoplastic polyester (PBT)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

- The technical data may vary for UL applications
- UL approval only applies in conjunction with AC application
- The rated operating voltage for DC applications depends on the busbar arrangement in the busbar support 9340.050/9341.050/9342.050

Technical details:

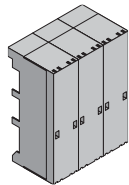
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Rated current max. 63 – 125 A

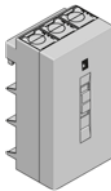
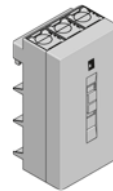
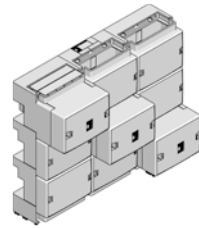
						
Rated current max. A	Packs of	63	63	125	125	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Rated operating voltage (L1 + L2) V		–	1000 (DC)	–	1000 (DC)	
Rated operating voltage (L1 + L3) V		–	1500 (DC)	–	1500 (DC)	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top	Bottom	Top/bottom	Bottom	
Connection of round conductors, fine wire with wire end ferrule	mm ²	2.5 - 10	2.5 - 10	10 - 25	10 - 25	
Connection of round conductors, multi-wire	mm ²	2.5 - 10	2.5 - 10	16 - 35	16 - 35	
	AWG	14 - 8	14 - 8	6 - 2	6 - 2	
Connection of round conductors, single-wire	mm ²	2.5 - 10	2.5 - 10	–	–	
	AWG	14 - 8	14 - 8	–	–	
Clamping area for laminated copper bars, H x W mm		–	–	7.8 x 10	7.8 x 10	
Clamping area for laminated copper bars, H x W (for 5 mm bar thickness)		–	–	–	–	
Clamping area for laminated copper bars, H x W (for 10 mm bar thickness)		–	–	–	–	
Height mm		215	215	210	210	
Width mm		20	20	55	55	
Approvals		UL	UL	UR	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9342.200	9342.210	9342.220	9342.240	
Accessories						
Laminated copper bars		–	–	see page	see page	221

Connection Adapters

Rated current max. 250 – 600 A

					
Rated current max. A		250	250	600	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Rated operating voltage (L1 + L2) V		–	1000 (DC)	–	
Rated operating voltage (L1 + L3) V		–	1500 (DC)	–	
Number of poles		3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Bottom	Top/bottom	
Connection of round conductors, fine wire with wire end ferrule	mm ²	35 - 120	35 - 120	35 - 240	
Connection of round conductors, multi-wire	mm ²	35 - 120	35 - 120	35 - 240	
	AWG - MCM	2 - 250	2 - 250	2 - 500	
Clamping area for laminated copper bars, H x W mm		15.5 x 18.5	15.5 x 18.5	21 x 24	
Clamping area for laminated copper bars, H x W (for 5 mm bar thickness)		–	–	–	
Clamping area for laminated copper bars, H x W (for 10 mm bar thickness)		–	–	–	
Height mm		210	210	247	
Width mm		90	90	180	
Approvals		UL	UL	–	
For busbar systems with center-to-center distance mm		60	60	60	
For bar thickness mm		5/10	5/10	5/10	
Model No.		9342.250	9342.270	3439.010	
	Packs of	1 pc(s).	1 pc(s).	1 set(s)	
Accessories					
Laminated copper bars		see page	see page	see page	221

Rated current max. 800 – 1600 A

						
Rated current max. A		800	800	800	1600	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Rated operating voltage (L1 + L2) V		–	1000 (DC)	1000 (DC)	1000 (DC)	
Rated operating voltage (L1 + L3) V		–	1500 (DC)	1500 (DC)	1500 (DC)	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Bottom	Top/bottom	
Connection of round conductors, fine wire with wire end ferrule mm ²	mm ²	95 - 185	95 - 185	95 - 185	–	
Connection of round conductors, multi-wire mm ²	mm ²	95 - 300	95 - 300	95 - 300	–	
	AWG - MCM	3/0 - 600	3/0 - 600	3/0 - 600	–	
Clamping area for laminated copper bars, H x W mm		20 x 33	–	33 x 20	–	
Clamping area for laminated copper bars, H x W (for 5 mm bar thickness) mm		–	26 x 33	–	27 x 65	
Clamping area for laminated copper bars, H x W (for 10 mm bar thickness) mm		–	21 x 33	–	22 x 65	
Height mm		246	210	246	210	
Width mm		129	150	129	255	
Approvals		UR	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.		9342.280	9342.310	9342.300	9342.320	
	Packs of	1 pc(s).	1 set(s)	1 pc(s).	1 set(s)	
Accessories						
Laminated copper bars		see page	see page	see page	see page	221

OM Adapters



Busbar system Page 198 **Connection adapters** Page 202 **Fuse elements** Page 213 **Allocation of switchgear** Page 211

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Note:

- The technical data may vary for UL applications

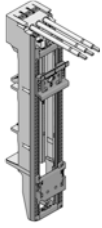
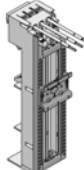
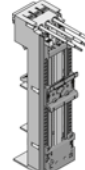
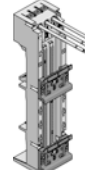
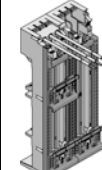
Technical details:

Available on the Internet

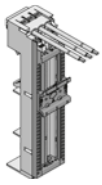
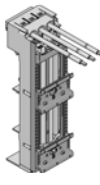
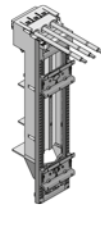
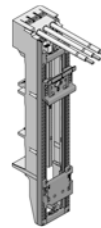
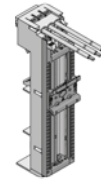
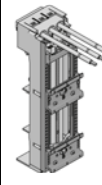
Color:

- Chassis: RAL 7035

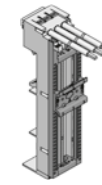
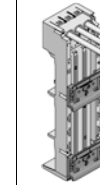
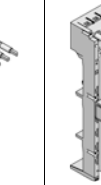
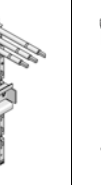
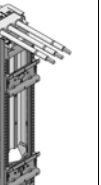
Rated current max. 16 – 25 A, with connection cables

								
Rated current max. A	Packs of	16	25	25	25	25	25	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	
Connection cables, version		AWG 12	AWG 12	AWG 12	AWG 12	AWG 12	AWG 12	
Connection cables, length mm		165	130	130	130	130	130	
With support frame mm		45 x 237	–	45 x 170	45 x 170	–	45 x 170	
With support frame supports		■	–	–	–	–	–	
With Pin Block		■	–	–	■	–	–	
With insert strips		–	–	–	–	–	–	
Support rails qty/height mm		1/10	1/10	1/10	1/10	2/10	3/10	
Support rail version		TS 45D	TS 45C	TS 45C	TS 45C	TS 45D	TS 45D TS 45D-V	
Height mm		272	208	208	208	208	208	
Width mm		45	45	45	45	45	90	
Approvals		UL	UL	UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9340.760	9340.310	9340.340	9340.370	9340.320	9340.400	
Accessories								
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	9340.280	–	226
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	9340.290	–	225
Support rails		from page	from page	from page	from page	from page	from page	225
OM supports		see page	see page	see page	see page	see page	–	207
Pin Block	5 pc(s).	–	–	9342.800	–	–	9342.800	226

Rated current max. 32 A, with connection cables

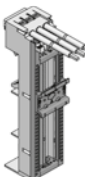
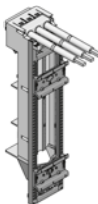
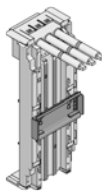
								
Rated current max. A	Packs of	32	32	32	32	32	32	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	
Connection cables, version		AWG 10	AWG 10	AWG 10	AWG 10	AWG 10	AWG 10	
Connection cables, length mm		130	130	130	165	130	130	
With support frame mm		45 x 170	45 x 170	45 x 237	45 x 237	55 x 170	55 x 170	
With support frame supports		–	–	■	■	–	–	
With Pin Block		–	–	–	■	–	–	
With insert strips		–	–	–	–	–	–	
Support rails qty/height mm		1/10	2/10	2/10	1/10	1/10	2/10	
Support rail version		TS 45C	TS 45D TS 45D-V	TS 45D TS 45D-V	TS 45D	TS 55D	TS 55D TS 55D-V	
Height mm		208	208	272	272	208	208	
Width mm		45	45	45	45	55	55	
Approvals		UL	UL	UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9340.350	9340.380	9340.390	9340.770	9340.460	9340.470	
Accessories								
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	9340.280	9340.280	226
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	9340.290	9340.290	225
Support rails		from page	from page	from page	from page	from page	from page	225
OM supports		see page	see page	see page	see page	see page	see page	207
Pin Block	5 pc(s).	9342.800	9342.800	9342.800	9342.800	9342.810	9342.810	226

Rated current max. 40 A, with connection cables

							
Rated current max. A	Packs of	40	40	40	40	40	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	
Connection cables, version		AWG 8	AWG 8	AWG 8	AWG 8	AWG 8	
Connection cables, length mm		130	130	130	130	130	
With support frame mm		55 x 170	–	–	55 x 237	–	
With support frame supports		–	–	–	■	–	
With Pin Block		–	–	–	–	–	
With insert strips		–	–	–	–	■	
Support rails qty/height mm		1/10	2/10	1/15	2/10	2/7.5	
Support rail version		TS 55D	TS 55D	Metal	TS 55D TS 55D-V	Metal	
Height mm		208	208	208	272	208	
Width mm		55	55	55	55	75	
Approvals		UL	UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9340.720	9340.740	9340.750	9340.730	9340.710	
Accessories							
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	9340.280	226
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	–	225
Support rails		from page	from page	from page	from page	from page	225
OM supports		see page	see page	see page	see page	see page	207
Pin Block	5 pc(s).	9342.810	–	–	9342.810	–	226

OM Adapters

Rated current max. 65 A, with connection cables

						
Rated current max. A	Packs of	65	65	65	65	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Connection cables, version		AWG 6	AWG 6	AWG 6	AWG 6	
Connection cables, length mm		130	130	130	130	
With support frame mm		–	55 x 170	55 x 237	–	
With support frame supports		–	–	■	–	
With Pin Block		–	–	–	–	
With insert strips		–	–	–	■	
Support rails qty/height mm		1/10	1/10	2/10	1/7.5	
Support rail version		TS 55E	TS 55E	TS 55E TS 55D-V	Metal	
Height mm		208	208	272	208	
Width mm		55	55	55	75	
Approvals		UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9340.410	9340.430	9340.450	9340.700	
Accessories						
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	–	226
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	–	225
Support rails		from page	from page	from page	from page	225
OM supports		see page	see page	see page	see page	207
Pin Block	5 pc(s).	–	9342.810	9342.810	–	226

Accessories



Power Engineering

See page 231



Busbar system Page 198 **Connection adapters** Page 202 **Fuse elements** Page 213

To mount switchgear with an external power supply.

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- Chassis: RAL 7035

Technical details:

Available on the Internet

without Contact System

					
Number of poles	Packs of	3-pole	3-pole	3-pole	Page
With support frame mm		45 x 170	55 x 237	–	
With support frame supports		–	■	–	
With Pin Block		■	–	–	
Support rails qty/height mm		–	1/10	2/10	
Support rail version		–	TS 55D-V	TS 45D	
Height mm		208	272	208	
Width mm		45	55	45	
Approvals		UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	
For bar thickness mm		5/10	5/10	5/10	
Model No.	1 pc(s).	9340.260	9340.270	9340.300	
Accessories					
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	226
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	225
Support rails		from page	from page	from page	225

Circuit-Breaker Component Adapters



Busbar system Page 198 **Connection adapters** Page 202 **Fuse elements** Page 213

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

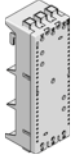
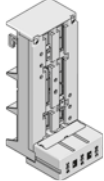
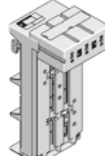
Note:

- The technical data may vary for UL applications
- Cable outlet: Switch outlet or as outgoing cable from the switchgear

Technical details:

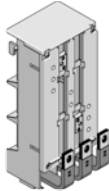
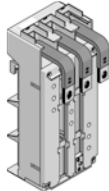
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Rated current max. 100 – 125 A, 3-pole

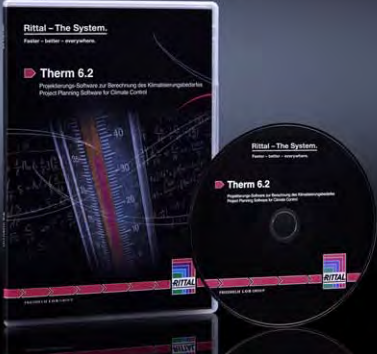
						
Rated current max. A	Packs of	100	100	125	125	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top	Bottom	Top	Bottom	
Type of connection		Box terminal	Box terminal	Box terminal	Box terminal	
Connection of round conductors	mm ²	10 - 35	10 - 35	35 - 120	35 - 120	
	AWG - MCM	8 - 2	8 - 2	2 - 250	2 - 250	
Clamping area for laminated copper bars, H x W mm		7.8 x 10	7.8 x 10	15.5 x 18.5	15.5 x 18.5	
For switchgear make (model)		ABB (MS 497) Eaton (PKZ2) Schneider Electric (GV3ME80) Siemens (S3)	ABB (MS 497) Eaton (PKZ2) Schneider Electric (GV3ME80) Siemens (S3)	ABB (S2, T1, T1 UL, T2, T2 UL) Allen Bradley (140-CMN) Eaton (NzM1, NzM1 UL, BZM B1), GE (FD) OEZ (BC160N) Schneider Electric (NS80, NSC100, NSE75, NSE100) Siemens (3RV13 53, 3VT1) Terasaki (E125, S125)	ABB (S2, T1, T1 UL, T2, T2 UL) Allen Bradley (140-CMN) Eaton (NzM1, NzM1 UL, BZM B1), GE (FD) OEZ (BC160N) Schneider Electric (NS80, NSC100, NSE75, NS100) Siemens (3RV13 53, 3VT1) Terasaki (E125, S125)	
Height mm		210	210	225	225	
Width mm		72	72	90	90	
Approvals		UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9342.400	9342.410	9342.540	9342.550	
Product-specific scope of supply						
Terminal cover		–	–	■	■	
Sliding blocks		–	–	■	■	
Accessories						
Support rails 35 x 15 mm	5 pc(s).	9320.120	9320.120	–	–	227
Sliding blocks	6 pc(s).	–	–	9342.560	9342.560	227
Connection bracket	3 pc(s).	–	–	9342.570	9342.570	227
Insert strip		–	–	–	–	

Circuit-Breaker Component Adapters

Rated current max. 160 – 250 A, 3-pole

				
Rated current max. A	Packs of	250	250	Page
Rated operating voltage V, ~		690, 3~	690, 3~	
Number of poles		3-pole	3-pole	
Cable outlet		Top	Bottom	
Type of connection		–	–	
Clamping area for laminated copper bars, H x W mm		–	–	
For switchgear make (model)		ABB (S3, T3, T4, T3 UL, T4 UL) Allen Bradley (140 U-J) Eaton (NZM2, NZM2 UL, BZM B2) GE (FE 250) Mitsubishi (NF125-SGW/HGW, NF160-SGW/HGW) OEZ (BD250N, BD250S) Schneider Electric (NS(X)100, NS(X)160, NS(X)250, NSF150, NSF250, GV7) Siemens (VL150 UL, VL150X UL, VL160, VL160X, VL250, VL250 UL, 3RV10 63, 3RV13 63, 3RV13 64, 3VT2) Terasaki (L125, H125, S160, H160, L160, E250, L250, H250)	ABB (S3, T3, T4, T3 UL, T4 UL) Allen Bradley (140U-J) Eaton (NZM2, NZM2 UL, BZM B2) GE (FE 250) Mitsubishi (NF125-SGW/HGW, NF160-SGW/HGW) OEZ (BD250N, BD250S) Schneider Electric (NS(X)100, NS(X)160, NS(X)250, NSF150, NSF250, GV7) Siemens (VL150 UL, VL150X UL, VL160, VL160X, VL250, VL250 UL, 3RV10 63, 3RV13 63, 3RV13 64, 3VT2) Terasaki (L125, H125, S160, H160, L160, E250, L250, H250)	
Height mm		240	240	
Width mm		105	105	
Approvals		–	–	
For busbar systems with center-to-center distance mm		60	60	
For bar thickness mm		5/10	5/10	
Model No.	1 pc(s).	9345.600	9345.610	
Product-specific scope of supply				
Terminal cover		–	–	
Sliding blocks		■	■	
Connection straps		■	■	
Accessories				
Support rails 35 x 15 mm		–	–	
Sliding blocks	6 pc(s).	9342.640	9342.640	227
Connection bracket	3 pc(s).	–	–	227
Insert strip		–	–	

Accessories

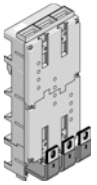
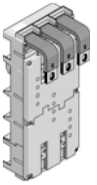
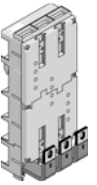
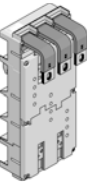


Therm Software

See page 321

Circuit-Breaker Component Adapters

Rated current max. 400 – 630 A, 3-pole

						
Rated current max. A	Packs of	400	400	630	630	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top	Bottom	Top	Bottom	
Type of connection		–	–	–	–	
Clamping area for laminated copper bars, H x W		–	–	–	–	
For switchgear make (model)		Eaton (NZM3, NZM3 UL/400 A) Mitsubishi (NF400-SEW/HEW/REW) Schneider Electric (NS(X)400, NSJ400) Siemens (VL400, VL400X UL, VL400 UL) Terasaki (E400, S400, H400, L400)	Eaton (NZM3, NZM3 UL/400 A) Mitsubishi (NF400-SEW/HEW/REW) Schneider Electric (NS(X)400, NSJ400) Siemens (VL400, VL400X UL, VL400 UL) Terasaki (E400, S400, H400, L400)	ABB (S5, T5, T5 UL) Allen Bradley (140U-L) Eaton (NZM3, NZM3 UL/630 A) Mitsubishi (NF630-SEW/HEW/REW) OEZ (BH630N, BH630S) Schneider Electric (NS(X)630, NSJ600) Siemens (VL630, 3VT3, 3V10 73, 3RV13 73, 3RV13 74) Terasaki (E630, S630)	ABB (S5, T5, T5 UL) Allen Bradley (140U-L) Eaton (NZM3, NZM3 UL/630 A) Mitsubishi (NF630-SEW/HEW/REW) OEZ (BH630N, BH630S) Schneider Electric (NS(X)630, NSJ600) Siemens (VL630, 3VT3, 3V10 73, 3RV13 73, 3RV13 74) Terasaki (E630, S630)	
Height mm		345	345	345	345	
Width mm		140	140	140	140	
Approvals		UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9345.720	9345.730	9345.700	9345.710	
Product-specific scope of supply						
Connection straps		■	■	■	■	
Sliding blocks		■	■	■	■	
Accessories						
Support rails 35 x 15 mm		–	–	–	–	
Sliding blocks		–	–	–	–	
Connection bracket		–	–	–	–	
Insert strip	4 pc(s).	9342.720	9342.720	9342.720	9342.720	227

New

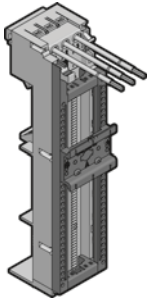


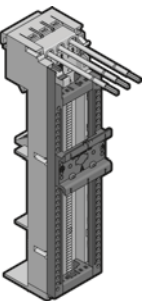
Perforex

See page 402

OM Adapters with Connection Cables

Allocation of switchgear

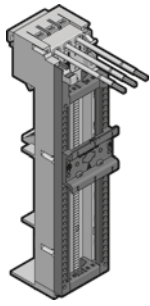


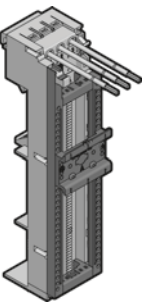


For make/model		ABB												Eaton																																													
		LS				Starter		Reversing starter		Soft starter		LS				Starter				Reversing starter		Soft starter																																					
		MS 116/132	MS 325	MS 450/451	MS 495/496/497	MS 116 + AF09, AF12, AF16	MS 132 + AF09, AF12, AF16, AF26, AF30, AF38	MS 450 + A40, A50	MS 116 + AF09, AF12, AF16	MS 132 + AF09, AF12, AF16, AF26, AF30, AF38	MS 450 + A40, A50	MS 116 + PSR3, PSR6, PSR9, PSR12, PSR16, PSR25	MS 325 + PSR25	MS 450 + PSR30	PKZM0	PKZM01	PKZM4	PKE12	PKE32	PKE65	MSC-D + M7 - M15	MSC-D + M17 - M32	PKZM4 + DILM 17-65	MSC - DE ... M7 - M12	MSC - DE ... M17 - M32	PKE 65 + DILM 65	MSC - DE ... M7 - M12	MSC - DE ... M17 - M32	PKE 65 + DILM 65	PKE 12, PKE 32 + DS7-340	PKZ0 + DS7-340																												
																																Construction width												Construction width															
																																45	54	55	70	45	45	70	90	90	140	45	45	55	45	45	55	45	45	55	45	45	55	45	45	55	90	90	110
Model No.	Version	Required quantity in piece												Required quantity in piece																																													
9340.340	OM adapter 25 A, AWG 12, W = 45 mm	1													1			1	1																																								
9340.350	OM adapter 32 A, AWG 10, W = 45 mm					1								1																																													
9340.370	OM adapter 25 A, AWG 12, W = 45 mm								1												1					1																																	
9340.380	OM adapter 32 A, AWG 10, W = 45 mm																				1					1																																	
9340.390	OM adapter 32 A, AWG 10, W = 45 mm					1			1		1	1											1	1						1	1																												
9340.430	OM adapter 65 A, AWG 6, W = 55 mm			1	1										1																																												
9340.450	OM adapter 65 A, AWG 6, W = 55 mm							1			1		1									1			1																																		
9340.460	OM adapter 32 A, AWG 10, W = 55 mm		1																																																								
9340.260	OM support, 45 x 208 mm								1	1																1	1																																
9340.270	OM support, 55 x 272 mm										1																																																
9342.860	Support rail TS45D, 35 x 10 mm	1							1																																																		
9342.870	Support rail TS45D-V, 35 x 10 mm					1																				1																																	
9340.290	Insert strip, 10 x 208 mm				2			2		3																																																	
9340.280	Connection pin								3	3	3															3	3																																

OM Adapters with Connection Cables

Allocation of switchgear



		For make/model		Siemens																Schneider Electric																	
		LS		Starter										Reversing starter		LS		Starter						Reversing starter		Soft starter											
		3RV10 11... (S00)	3RV10 21... (S0)	3RV10 31... (S2)	3RV20 11... (S00) screw terminal	3RV20 21... (S0) screw terminal up to 40 A	3RA11 10... (S00)	3RA11 20... (S0)	3RA11 30... (S2)	3RA21 10... (S00) screw terminal	3RV20 11... (S00 + S0) tension spring clamp	3RA21 20... (S00/S0) screw terminal	3RA21 20... (S0) screw terminal	3RA61 20...	3RA12 10... (S00 + S00)	3RA11 20... (S0 + S0)	3RV10 31... + 3RT103... (S2 + S2)	3RA22 10... (S00) screw terminal	3RA22 20... (S0) screw terminal	GV2 - ME (screw terminal and tension spring clamp)	GV2 - P	GV2 - RT, LE10, L10	GV3 BIS 65A	GV2 P + LC1D	GV2 ME + LC1D	GV2 - DM102 + LC1D/LC1K	GV2 - DP + LC1D/LC1K	GV3 + LC1D65	LUB 12	LUB 32	GV2 P + LC2D (AC)	GV2 ME + LC2D/LC2K (AC)	GV2 DM + LC2D/LC2K	GV2 DP + LC2D/LC2K	GV2 DP + LC2D/LC2K	GV2 ME + ATS	
Construction width																		Construction width																			
45	45	55	45	45	45	45	55	45	45	45	45	45	45	90	100	120	90	90	45	55	45	55	45	45	45	45	55	45	45	90	90	90	90	90	45		
ModelNo.	Version	Required quantity in piece																		Required quantity in piece																	
9340.760	OM adapter 16 A, AWG 12, W = 45 mm									1																											
9340.340	OM adapter 25 A, AWG 12, W = 45 mm	1	1		1														1	1							1										
9340.350	OM adapter 32 A, AWG 10, W = 45 mm										1	1					1					1	1	1	1			1	1	1	1	1	1				
9340.770	OM adapter 32 A, AWG 10, W = 45 mm												1																								
9340.370	OM adapter 25 A, AWG 12, W = 45 mm						1	1		1				1	1		1																				
9340.390	OM adapter 25 A, AWG 12, W = 45 mm																																			1	
9340.430	OM adapter 65 A, AWG 6, W = 55 mm			1															1		1																
9340.450	OM adapter 65 A, AWG 6, W = 55 mm								1							1										1											
9340.720	OM adapter 40 A, AWG 8, W = 55 mm				1																																
9340.260	OM support 45 x 208 mm													1	1		1												1	1	1	1	1				
9340.270	OM support 55 x 272 mm															1		1																			
9340.290	Insert strip 10 x 208 mm															1	1																				
9340.280	Connection pin													3	3	3	3	3											3	3	3	3	3				
9342.800	Pin Block, W = 45 mm									1	1											1	1	1	1				2	2	2	2	2				
9342.820	Pin Block PLUS											1										1	1	1	1												

NH Fuse-Switch Disconnectors, Sizes 00 to 3



Busbar system Page 198 **Connection adapters** Page 202 **OM adapters** Page 204 **Circuit-breaker component adapters** Page 208

Material:

- Polyamide (PA 6)
- Fire behavior corresponding to UL 94-V0
- Contact tracks: Electrolytic copper, silver-plated

Color:

- Chassis: RAL 7035
- Cover: RAL 7035/7001

Basis of test:

- IEC 60 947-3
- IEC 60 269-2 (fuse inserts)

Note:

- The technical data may vary for UL applications

Technical details:

Available on the Internet

Size 00

Size	Packs of	00	00	00	Page
Rated operating current max. A		160	160	160	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Screw M8	Screw M8	
Connection of round conductors	mm ²	4 - 95	10 - 95	10 - 95	
	AWG	12 - 3/0	8 - 3/0	8 - 3/0	
Clamping area for laminated copper bars, H x W mm		13 x 13	5 x 20	5 x 20	
Height mm		194	194	194	
Width mm		106	106	106	
Approvals		UR	UR	UR	
For mounting plate assembly		–	–	■	
For busbar systems with center-to-center distance mm		60	60	–	
For bar thickness mm		5/10	5/10	–	
Model No.	1 pc(s).	9343.000	9343.010	9344.010	
Accessories					
Connection compartment cover	2 pc(s).	9344.520	9344.520	9344.520	228
Arcing chambers		–	–	–	
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	228
Laminated copper bars		see page	see page	see page	221

NH Fuse-Switch Disconnectors, Sizes 00 to 3

Size 1

Size	Packs of	1	1	Page
Rated operating current max. A		250	250	
Rated operating voltage V, ~		690, 3~	690, 3~	
Number of poles		3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	
Type of connection		Screw M10	Screw M10	
Connection of round conductors mm ²	mm ²	10 - 150	10 - 150	
	AWG - MCM	8 - 300	8 - 300	
Clamping area for laminated copper bars, H x W mm		10 x 32	10 x 32	
Height mm		298	298	
Width mm		184	184	
Approvals		UR	UR	
For mounting plate assembly		—	■	
For busbar systems with center-to-center distance mm		60	—	
For bar thickness mm		5/10	—	
Model No.	1 pc(s).	9343.110	9344.110	

Accessories

Connection compartment cover	2 pc(s).	9344.530	9344.530	228
Arcing chambers	3 pc(s).	9344.680	9344.680	228
Micro-switch	2 pc(s).	9344.510	9344.510	228
Laminated copper bars		see page	see page	221

Size 2 – 3

Size	Packs of	2	2	3	3	Page
Rated operating current max. A		400	400	630	630	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Screw M10	Screw M10	Screw M10	Screw M10	
Connection of round conductors mm ²	mm ²	10 - 240	10 - 240	10 - 300	10 - 300	
	AWG - MCM	8 - 500	8 - 500	8 - 600	8 - 600	
Clamping area for laminated copper bars, H x W mm		10 x 50	10 x 50	10 x 50	10 x 50	
Height mm		298	298	298	298	
Width mm		210	210	250	250	
Approvals		UR	UR	UR	UR	
For mounting plate assembly		—	■	—	■	
For busbar systems with center-to-center distance mm		60	—	60	—	
For bar thickness mm		5/10	—	5/10	—	
Model No.	1 pc(s).	9343.210	9344.210	9343.310	9344.310	

Accessories

Connection compartment cover	2 pc(s).	9344.540	9344.540	9344.550	9344.550	228
Arcing chambers	3 pc(s).	9344.680	9344.680	9344.680	9344.680	228
Micro-switch	2 pc(s).	9344.510	9344.510	9344.510	9344.510	228
Laminated copper bars		see page	see page	see page	see page	221



Busbar system Page 198 **Connection adapters** Page 202 **OM adapters** Page 204 **Circuit-breaker component adapters** Page 208

Material:

- Polyamide (PA 6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

- For snap-on mounting on 35 mm (7.5 mm/15 mm high) support rails to DIN EN 60 715 or RiLine component adapter combinations (OM adapters/ supports)

Approvals:

- UL 512, CSA C22.2 No.39

Technical details:

Available on the Internet

Rated operating current max. 30 – 60 A

Fuse type (class)			CC	J	J	Page
Rated operating current max. A			30	30	60	
Rated operating voltage V, ~			600, 3~	600, 3~	600, 3~	
Number of poles			3-pole	3-pole	3-pole	
Fuse standard			UL 4248-4	UL 4248-8	UL 4248-8	
Fuse size mm			10 x 38	21 x 57	27 x 60	
Connection of round conductors	mm ²		2.5 - 10	2.5 - 25	2.5 - 25	
	AWG		14 - 8	14 - 4	14 - 4	
Height mm			78	114	122	
Width mm			52.5	97.5	120	
Depth mm			59	80	89	
Approvals			UL	UL	UL	
Model No.			9345.000	9345.010	9345.030	
	Packs of		4 pc(s).	2 pc(s).	2 pc(s).	

Fuse Holders



Busbar system Page 198 **Connection adapters** Page 202 **OM adapters** Page 204 **Circuit-breaker component adapters** Page 208

Material:

- Polyamide (PA 6)
- Fire behavior corresponding to UL 94-V0
- Contact tracks: Electrolytic copper, silver-plated

Color:

- Chassis: RAL 7035
- Cover: RAL 7035/7001

Approvals:

- UL 4248-1
- UL 4248-8
- CSA C22.2 No. 4248.1-07
- CSA C22.2 No. 4248.8-07

Technical details:

Available on the Internet

Rated operating current max. 100 – 400 A

Fuse type (class)		Packs of	J	J	J	Page
Rated operating current min. A			61	101	201	
Rated operating current max. A			100	200	400	
Rated operating voltage V, ~			600, 3~	600, 3~	600, 3~	
Number of poles			3-pole	3-pole	3-pole	
Fuse standard			UL 4248-8	UL 4248-8	UL 4248-8	
Fuse size mm			29 x 118	41 x 146	54 x 181	
Cable outlet			Top/bottom	Top/bottom	Top/bottom	
Type of connection			Box terminal	Box terminal	Box terminal	
Connection of round conductors	mm ²		35 - 150	95 - 300	95 - 300	
	AWG - MCM		2 - 300	4/0 - 600	4/0 - 600	
Height mm			288	288	328	
Width mm			184	210	250	
Approvals			UL	UL	UL	
For busbar systems with center-to-center distance mm			60	60	60	
For bar thickness mm			5/10	5/10	5/10	
Model No.		1 pc(s).	9345.100	9345.200	9345.400	

Busbar supports/post isolators

Busbar supports

1- and 2-pole

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Supply includes:

9342.030

- Elevation for stepped arrangement of PLS busbars

Note:

9340.030/9342.030

- The busbar supports can be bayed with a 60 mm busbar center distance when assembling multi-pole systems

Technical details:

Available on the Internet

Version	Packs of	1	2	2	Page
Number of poles		1-pole	1-pole	2-pole	
Busbar center distance mm		–	–	60	
For E-Cu busbars		PLS 1600	–	–	219
		–	12 x 5/10 ¹⁾ , 15 x 5 – 30 x 10 mm	12 x 5 – 30 x 10 mm	218
Rated operating voltage V, ~		1000, 1~	1000, 1~	1000, 2~	
		1500 (DC)	1500 (DC)	–	
PEN/N/PE supports		■	■	■	
N/PE supports		–	–	■	
Approvals		UL	UL	UL	
Model No.	4 pc(s).	9342.030	9340.030	9340.040	
Accessories					
Spacers	12 pc(s).	–	9340.090	–	217
Captive nuts M5 ²⁾	50 pc(s).	–	4166.000	4166.000	538

¹⁾ When using 12 x 5/10 mm busbars, spacer 9340.090 is required

²⁾ To attach the busbar supports to the TS frame profile and system chassis with rectangular 12.5 x 10.5 mm system punching

Post isolators

For configuring busbar systems with any given bar center distances and for assembling insulated PE or PEN busbars.

Material:

- Duroplastic polyester (UP resin)

Technical details:

Available on the Internet

Rated operating voltage kV	1	1
Tensile strength kN	12	13
Torsional strength Nm	75	90
Bending strength kN	6	6
Height mm	40	50
Thread	M10	M10
Packs of	6 pc(s).	6 pc(s).
Model No.	3031.000	3032.000

Spacers

for RiLine busbar supports (flat bar system)

For adapting 12 x 5 and 12 x 10 mm size busbars.

For busbar supports

- 9340.030 (1-pole), see page 217
- 9340.000/.010 (3-pole), see page 198

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

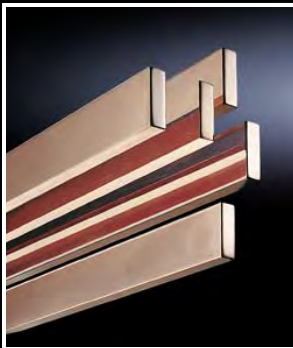
- RAL 7035

Packs of	Model No.
12 pc(s).	9340.090



RiLine Accessories

Busbars



Busbars CUPONAL

To DIN EN 13 601

Length: 94 inches (2400 mm)/bar

Copper-coated aluminum busbars, suitable for configuring busbar systems with busbar supports 9340.000/9340.050, see page 198.

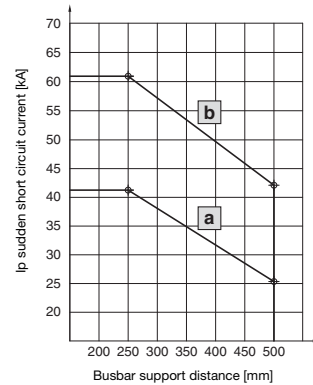
Material:

- Aluminum core with crimped copper coating made of E-Cu

Dimensions mm	Rated current ¹⁾ A	Packs of	Model No.
20 x 5	235	6 pc(s).	3582.020
20 x 10	363	3 pc(s).	3585.020
30 x 5	328	6 pc(s).	3584.020
30 x 10	493	3 pc(s).	3586.020

¹⁾ Current carrying capacity at 149°F bar temperature and 95°F ambient temperature, correction factor diagram to DIN 43 671

Short circuit strength diagram



Busbars CUPONAL mm	Busbar supports	Characteristic
20 x 5/10	9340.000/.050	a
30 x 5/10	9340.000/.050	b

Busbars E-Cu

To DIN EN 13 601

Length: 94 inches (2400 mm)/bar

Material:

E-Cu F30

Technical details:

Available on the Internet

Dimensions mm	Approvals	Packs of	Model No.	Page
12 x 5	UL	6 pc(s).	3580.000	
15 x 5	UL	6 pc(s).	3581.000	
20 x 5	UL	6 pc(s).	3582.000	
25 x 5	UL	6 pc(s).	3583.000	
30 x 5	UL	6 pc(s).	3584.000	
12 x 10	UL	6 pc(s).	3580.100	
15 x 10	UL	6 pc(s).	3581.100	
20 x 10	UL	3 pc(s).	3585.005	
30 x 10	UL	3 pc(s).	3586.005	

Accessories

Busbar connector mm	12 x 5 – 15 x 10 (single connection)	3 pc(s).	9350.075	220
	20 x 5 – 30 x 10 (single connection)	3 pc(s).	9320.020	220
	20 x 5 – 30 x 10 (baying connection)	3 pc(s).	9320.030	220
Busbar cover sections mm	12/15 x 5	4 pc(s).	9350.010	219
	12/15 x 10	4 pc(s).	9350.060	219
	12 x 5 – 30 x 10	10 pc(s).	3092.000	219

Busbars

Busbar cover sections

Contact hazard protection through encapsulation of busbars. May be cut to length as required.

Length: 39 inches (1000 mm)/section

Material:

- Thermally modified hard PVC
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

- Contact hazard protection, additional solutions, see page 222

Technical details:

Available on the Internet

For busbars mm	Approvals	Packs of	Model No.
12/15 x 5	–	4 pc(s).	9350.010
12/15 x 10	–	4 pc(s).	9350.060
12 x 5 – 30 x 10		10 pc(s).	3092.000

PLS special busbars E-Cu

Technical details:

Available on the Internet

For PLS 800 system, bar thickness 5 mm, bar cross-section 300 mm²

For enclosure width inches (mm)	Length inches (mm)	Approvals	Packs of	Model No.	Page
24 (600)	19 (495)		3 pc(s).	3524.000	
32 (800)	27 (695)		3 pc(s).	3525.000	
39 (1000)	35 (895)		3 pc(s).	3525.010	
47 (1200)	43 (1095)		3 pc(s).	3526.000	
Variable	94 (2400)		1 pc(s).	3509.000	

Accessories

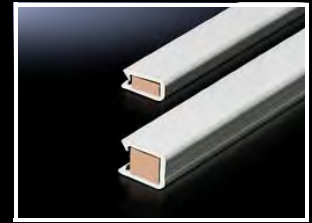
PLS busbar connectors (single connection)	3 pc(s).	3504.000	220
PLS busbar connectors (baying connection)	3 pc(s).	3505.000	220
PLS expansion connectors	3 pc(s).	9320.060	220

For PLS 1600 system, bar thickness 10 mm, bar cross-section 900 mm²

For enclosure width inches (mm)	Length inches (mm)	Approvals	Packs of	Model No.	Page
24 (600)	19 (495)		3 pc(s).	3527.000	
32 (800)	27 (695)		3 pc(s).	3528.000	
39 (1000)	35 (895)		3 pc(s).	3528.010	
47 (1200)	43 (1095)		3 pc(s).	3529.000	
Variable	94 (2400)		1 pc(s).	3516.000	

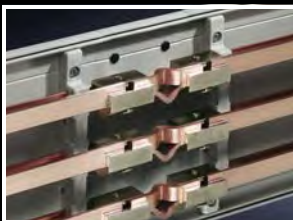
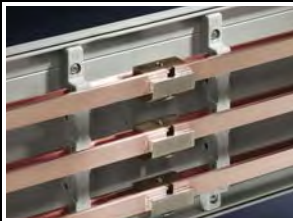
Accessories

PLS busbar connectors (single connection)	3 pc(s).	3514.000	220
PLS busbar connectors (baying connection)	3 pc(s).	3515.000	220
PLS expansion connectors	3 pc(s).	9320.070	220



RiLine Accessories

Busbars



Busbar connector

For connecting square busbars, no drilling required.

Material:

9350.075

- Top piece: St 37, nickel-plated surface finish
- Contact plate: E-Cu, nickel-plated surface finish

9320.020/9320.030

- Top piece: Carbon steel, zinc-plated, passivated
- Contact plate: E-Cu, silver-plated

Technical details:

Available on the Internet

For busbars mm	Application		Approvals	Packs of	Model No.
	Single connection	Baying connection ¹⁾			
12 x 5 – 15 x 10	■	–	UL	3 pc(s).	9350.075
20 x 5 – 30 x 10	■	–	UL	3 pc(s).	9320.020
	–	■	UL	3 pc(s).	9320.030

¹⁾ Connection from enclosure to enclosure

PLS busbar connectors

For connecting the special PLS busbars. No drilling required.

Material:

- E-Cu

Surface finish:

- Nickel-plated

Technical details:

Available on the Internet

Application	For system	Approvals	Packs of	Model No.
Single connection	PLS 800	UL	3 pc(s).	3504.000
	PLS 1600	UL	3 pc(s).	3514.000
Baying connection ¹⁾	PLS 800	UL	3 pc(s).	3505.000
	PLS 1600	UL	3 pc(s).	3515.000

¹⁾ Connection from enclosure to enclosure

PLS expansion connectors

For thermal and mechanical compensation when connecting special PLS busbars from enclosure to enclosure.

Material:

- E-Cu

Note:

- At a temperature increase of 30 K, there is an expansion in the length of the busbars by approximately 0.5 mm/m. For this reason, it is advisable to use an expansion connector for thermal compensation in busbar systems with busbar sections > 3600 mm.

Technical details:

Available on the Internet

Expansion connector	For system	Approvals	Packs of	Model No.	Page
	PLS 800	UL	3 pc(s).	9320.060	
	PLS 1600	UL	3 pc(s).	9320.070	

Also required

PLS busbar connectors ¹⁾	PLS 800	UL	3 pc(s).	3504.000	220
	PLS 1600	UL	3 pc(s).	3514.000	220

¹⁾ Two busbar connectors are needed to fit one expansion connector

Laminated copper bars

Length: 79 inches (2000 mm)/bar

Material:

Cu membranes

- High-purity electrolyte copper F20

Insulation

- High-strength vinyl compound
- Expansion 370%
- Temperature range: -22°F...+221°F
- Fire behavior corresponding to UL 94-V0
- Dielectric strength: 20 kV/mm

Technical details:

Available on the Internet

Assembly ¹⁾ mm	I _n at 70 K ²⁾ A	I _n at 50 K ²⁾ A	I _n at 30 K ²⁾ A	Approvals	Packs of	Model No.
6 x 9 x 0.8	285	240	180		1 pc(s).	3565.005
6 x 15.5 x 0.8	415	350	265		1 pc(s).	3568.005
10 x 15.5 x 0.8	575	480	365		1 pc(s).	3569.005
5 x 20 x 1	525	435	330		1 pc(s).	3570.005
5 x 24 x 1	605	510	385		1 pc(s).	3571.005
10 x 24 x 1	920	770	585		1 pc(s).	3572.005
5 x 32 x 1	770	645	485		1 pc(s).	3573.005
10 x 32 x 1	1155	965	730		1 pc(s).	3574.005
5 x 40 x 1	930	780	590		1 pc(s).	3575.005
10 x 40 x 1	1370	1145	865		1 pc(s).	3576.005
5 x 50 x 1	1125	940	710		1 pc(s).	3577.005
10 x 50 x 1	1635	1365	1030		1 pc(s).	3578.005
10 x 63 x 1	1950	1610	1230		1 pc(s).	3579.005

¹⁾ Number of membranes x membrane width x membrane thickness

²⁾ The sum of the ambient temperature and temperature increase is used to determine the resulting conductor temperature of the laminated copper bars

Example:

3565.005 at 180 A, i.e. the temperature increases by 30 K. An ambient temperature of 95°F results in a conductor temperature of 95°F + 30 K = 149°F

Universal supports

For the attachment of laminated copper bars from 5 x 20 x 1 to 10 x 63 x 1 mm.

Material:

- Fiberglass-reinforced, thermoplastic polyester (PBT)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Supply includes:

- Screws and U nuts to attach to PS punched rails

Approvals	Packs of	Model No.
	3 pc(s).	3079.000



Accessories:

- PS punched rails, see page 526

Technical details:

Available on the Internet

Universal supports

For the attachment of multi-stacked laminated copper bars from 5 x 40 x 1 to 10 x 100 x 1 mm.

Material:

- Fiberglass-reinforced, thermoplastic polyester (PBT)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Supply includes:

- Screws and sliding nuts to attach to C rails

Packs of	Model No.
3 set(s)	3079.010

Note:

- The 3 sets of universal supports match the scope of supply shown in the photo



Accessories:

- C rails 30/15, see page 528



RiLine Accessories

Contact hazard protection



System components

Material:

- Thermally modified hard PVC
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Technical details:

Available on the Internet

For RiLine busbar system			3-pole		
Flat busbars			PLS 800	PLS 1600	
[1] Base trays					
Length (L) inches (mm)	Packs of	Approvals	Model No.		
20 (500)	2 pc(s).	UL	9340.100	9341.100	9342.100
28 (700)	2 pc(s).	UL	9340.110	9341.110	9342.110
35 (900)	2 pc(s).	UL	9340.120	9341.120	9342.120
43 (1100)	2 pc(s).	UL	9340.130	9341.130	9342.130
94 (2400)	1 pc(s).	UL	9340.170	9341.170	9342.170
[1] Base tray infills					
4 (100)	2 pc(s).	UL	9340.140	9341.140	9342.140
[2] Cover sections					
28 (700)	2 pc(s).	UL	9340.200	9340.200	9340.200
43 (1100)	2 pc(s).	UL	9340.210	9340.210	9340.210

[1] Base tray For rear contact hazard protection of the flat busbar assembly.	[1] Base tray infill For rear contact hazard protection when connecting the busbars from enclosure to enclosure. Supply includes: Assembly components	[2] Cover section May be cut to desired width; for clip-on mounting to the base tray. Note: If a load will be applied to the cover section from the front, the support panel is required to provide stabilization.
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Support panels

for cover section

To prevent side access to the cover section. The support panel also provides additional stability.

Recommended mounting distance: ≤ 500 mm

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

For system assembly	Approvals	Packs of	Model No.
3-pole	UL	5 pc(s).	9340.220

Technical details:

Available on the Internet

Cross members

for RiLine busbar connections, 3-pole

To comply with the clearances required for "feeder circuits" under UL 508. For flat bar systems with 60 mm bar center distance and PLS 800/1600.

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

- For a busbar connection two cross members are required

Length inches (mm)	Approvals	Packs of	Model No.
6.3 (160)	UL	2 pc(s).	9340.230



Also required:

- Support panel 9340.220, see page 222

Technical details:

Available on the Internet

Conductor terminals

Material:

3450.500 – 3459.500

– Carbon steel, zinc-plated, passivated

3550.000/3555.000

– Brass



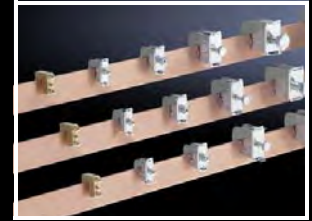
Accessories:

– Laminated copper bars, see page 221

Technical details:

Available on the Internet

For busbar thickness mm	Connection of round conductors		Clamping area for laminated copper bars, H x W mm	Approvals	Packs of	Model No.
	mm ²	AWG – MCM				Model No.
3 – 5	1 – 4	17 – 12	–		15 pc(s).	3550.000
5	1 – 4	17 – 12	–		15 pc(s).	3450.500
5	2.5 – 16	14 – 6	8 x 8		15 pc(s).	3451.500
5	16 – 50	6 – 0	11 x 10.5		15 pc(s).	3452.500
5	35 – 70	2 – 2/0	15 x 16.5		15 pc(s).	3453.500
5	70 – 185	2/0 – 350	20 x 22.5		15 pc(s).	3454.500
6 – 10	1 – 4	17 – 12	–		15 pc(s).	3555.000
10	1 – 4	17 – 12	–		15 pc(s).	3455.500
10	2.5 – 16	14 – 6	8 x 8		15 pc(s).	3456.500
10	16 – 50	6 – 0	11 x 10.5		15 pc(s).	3457.500
10	35 – 70	2 – 2/0	15 x 16.5		15 pc(s).	3458.500
10	70 – 185	2/0 – 350	20 x 22.5		15 pc(s).	3459.500



System covers

For conductor terminals and plate clamps.

Material:

– ABS

– Fire behavior corresponding to UL 94-V0

Color:

– RAL 7035

Note:

- For 3-pole systems with 60/100 mm bar center distance
- Only suitable for use with systems without a base tray
- For systems with a base tray, the system covers must be mechanically shortened

Technical details:

Available on the Internet

Width mm	Depth mm	Height mm		Approvals	Packs of	Model No.
		When fitted to busbar systems				
		60 mm	100 mm			
50	80	230	325		4 pc(s).	3086.000
100	80	230	325		4 pc(s).	3087.000
100	110	230	325		4 pc(s).	3090.000
200	80	230	325		4 pc(s).	3088.000
200	110	230	325		4 pc(s).	3091.000



Connection systems



Connection block

For the connection of round conductors and laminated copper bars.
For busbars 12 x 5 – 30 x 10 mm.

Material:

Chassis

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Cover

- ABS
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Supply includes:

- Three terminals including cover

Note:

- When using the terminal on 2-pole busbar systems, the terminal must be rotated through 180° for connection to the PE busbar

Technical details:

Available on the Internet

Rated current max. A		Packs of	800	1600	Page
Rated operating voltage V, ~			690, 1~	690, 1~	
Rated operating voltage (L1 + L2) V			1000 (DC)	1000 (DC)	
Rated operating voltage (L1 + L3) V			1500 (DC)	1500 (DC)	
Cable outlet			Top/bottom	Top/bottom	
Connection of round conductors, fine wire with wire end ferrule	mm ²		95 – 185	–	
Connection of round conductors, multi-wire	mm ²		90 – 300	–	
	AWG – MCM		3/0 – 600		
Clamping area for laminated copper bars (for 5 mm bar thickness), H x W mm			26 x 33	27 x 65	
Clamping area for laminated copper bars (for 10 mm bar thickness), H x W mm			21 x 33	22 x 65	
Height mm			88	88	
Width mm			50	85	
Approvals			UL	UL	
Model No.		3 pc(s).	9342.311	9342.321	
Accessories					
Laminated copper bars			■	■	221

RiLine Accessories

for OM adapters/supports

Support rails 35 x 10 mm

for OM adapters/supports

For attaching to the adapter section and support frame.

Material:

- Polyamide (PA 6.6)

Color:

- RAL 9005

Supply includes:

- Assembly screws

Note:

- UL approval in conjunction with OM adapter/support

Version	Width mm	With anti-slip guard ¹⁾	Packs of	Model No.
TS 45C	45	■	5 pc(s).	9342.850
TS 45D	45	–	5 pc(s).	9342.860
TS 45D-V ²⁾	45	–	5 pc(s).	9342.870
TS 55C	55	■	5 pc(s).	9342.920
TS 55D	55	–	5 pc(s).	9342.930
TS 55D-V ²⁾	55	–	5 pc(s).	9342.940

¹⁾ Anti-slip guard for motor circuit-breaker

²⁾ Support rail only suitable for non hole-pattern dependent mounting on support frame



Support rails 35 x 15 mm

for OM adapters/supports

For attaching to the adapter section.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws and side anti-slip guard

Width mm	Packs of	Model No.
45	5 pc(s).	9342.880
55	5 pc(s).	9342.950



Support rails 35 x 7.5 mm

for OM adapters/supports

For assembly on 55 mm wide OM adapters/supports with 10 mm wide insert strips mounted on the right and left.

Arrangement of the mounting hole for central configuration on 55 mm wide adapter section or support frame.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws and side anti-slip guard

Width mm	Packs of	Model No.
72	5 pc(s).	9342.980



Insert strips

for OM adapters/supports

To extend the construction width in a 10 mm hole pattern. May be bayed as often as required on both sides. With integral cable duct.

Material:

- Polyamide (PA 6.6)

Color:

- RAL 7035

Supply includes:

- 6 connection pins

Width mm	Approvals	Packs of	Model No.
10	UL	2 pc(s).	9340.290



RiLine Accessories

for OM adapters/supports



Connection pin

For any required mechanical connection of OM adapter/support and insert strip 9340.290.

Material:

– Polyamide (PA 6)

Color:

– RAL 5010

Approvals	Packs of	Model No.
UL	20 pc(s).	9340.280



Pin Block

for support frames

For secure attachment and positioning of the contactor on motor starter combinations. For simple clip-on mounting onto the support frame. Individual vertical positioning is achieved by relocating the Pin Block.

Material:

– Polyamide (PA 6.6)

Color:

– RAL 9005

For support frame width mm	Packs of	Model No.
45	5 pc(s).	9342.800
55	5 pc(s).	9342.810

Note:

– UL approval in conjunction with OM adapter/support



Accessories:

– Pin Block Plus, see page 226



Pin Block Plus

for starters with increased contactor attachment

Mounted by simply clipping onto the Pin Block 9342.800/.810.

Material:

– Polyamide (PA 6.6)

Color:

– RAL 9005

Packs of	Model No.
5 pc(s).	9342.820

Note:

– UL approval in conjunction with OM adapter/support



Cable set

Pre-assembled connection cables for individual connection of switchgear, top-mounted on OM adapters with tension spring clamps, or suitable for wiring between individual switchgear.

Length: 130 mm

Material:

- PVC insulation
- Temperature resistant to 221°F
- Wire ends with ultrasonic wire-end compression at both ends

Technical details:

Available on the Internet

Version	Packs of	Model No.
AWG 14 = 2.08 mm ² ± 2.5 mm ²	15 pc(s).	9340.850
AWG 12 = 3.31 mm ² ± 4 mm ²	15 pc(s).	9340.860
AWG 10 = 5.26 mm ² ± 6 mm ²	15 pc(s).	9340.870
AWG 8 = 8.37 mm ² ± 10 mm ²	6 pc(s).	9340.880
AWG 6 = 13.3 mm ² ± 16 mm ²	6 pc(s).	9340.890

AWG = American Wire Gauges

RiLine Accessories

for circuit-breaker component adapters

Insert strips

for circuit-breaker component adapters

To extend the construction width from 140 mm to 190 mm.

Material:

– ABS

Color:

– RAL 7035

Suitable for Model No.	Width mm	Approvals	Packs of	Model No.
9345.700/.710 9345.720/.730	25	UL	4 pc(s).	9342.720

Note:

– Four pieces are required to extend a component adapter



Sliding blocks

for circuit-breaker component adapters

For additional locking of circuit-breakers with more than two attachment points.

Color:

– RAL 7035

Note:

– UL approval in conjunction with circuit-breaker component adapter

Suitable for Model No.	With threaded insert	Packs of	Model No.
9342.540/.550	M3/M4	6 pc(s).	9342.560
9345.600/.610	M4/M5	6 pc(s).	9342.640



Connection bracket

for circuit-breaker component adapters

Pre-assembled, laminated flat copper for connecting standard, commercially available circuit-breakers (MCCB).

Material:

– Electrolytic copper F20

Insulation:

- Vinyl compound
- Temperature resistant to 221°F
- Fire behavior corresponding to UL 94-V0

Technical details:

Available on the Internet



Suitable for Model No.	Dimensions ¹⁾ mm	To connect circuit-breakers (MCCB), Make (model)	Packs of	Model No.
9342.540/.550	6 x 9 x 0.8	ABB (T1, T1 UL, T2, T2 UL), Eaton (NZM1, NZM1 UL, BZM B1), OEZ (BC160N), Schneider Electric (NSC100, NSE75, NSE100) Siemens (3RV13 53, 3VT 1)	3 pc(s).	9342.570²⁾

¹⁾ Number of membranes x membrane width x membrane thickness

²⁾ Universal application for switchgear with a dimensional difference between the mounting level and the upper edge of the contact level of 20 ± 5 mm

Support rails 35 x 15 mm

for circuit-breaker component adapters

Material:

– Carbon steel

Surface finish:

– Zinc-plated

Supply includes:

– Assembly screws and side anti-slip guard

Suitable for Model No.	Width mm	Approvals	Packs of	Model No.
9342.400 9342.410	72	UL	5 pc(s).	9320.120



for NH fuse-switch/NH in-line fuse-switch disconnectors



Connection compartment covers

for NH disconnectors

For extending the contact hazard protection cover, e.g. when using cable lugs with a long collar. Bayable as required at the top and bottom.

Material:

– Polyamide (PA 6)

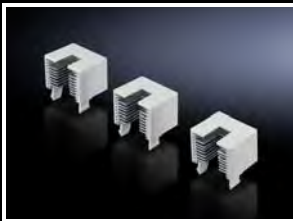
Color:

– RAL 7035

Suitable for NH disconnectors	Packs of	Model No.
Size 00	2 pc(s).	9344.520
Size 1	2 pc(s).	9344.530
Size 2	2 pc(s).	9344.540
Size 3	2 pc(s).	9344.550

Technical details:

Available on the Internet



Arcing chambers

for NH disconnectors, sizes 1 to 3

To increase switching capacity (utilization category).

Technical details:

Available on the Internet

Packs of	Model No.
3 pc(s).	9344.680



Micro-switch

for NH disconnectors/NH in-line fuse-switch disconnectors

To indicate the switch position of the NH unit (switch cover).

Suitable for NH disconnectors	Packs of	Model No.
Size 000/00	5 pc(s).	3071.000
Size 1/2/3	2 pc(s).	9344.510¹⁾

¹⁾ Incl. plastic lug for attaching the micro-switch to the disconnector chassis

Maxi-PLS Busbar System

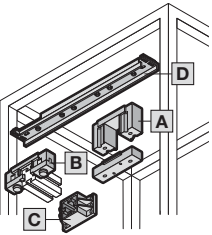
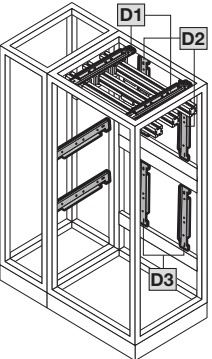
System components

Note:

- Busbars for PE/PEN combinations, see page 559/559

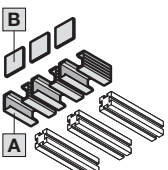
Technical details:

Available on the Internet

Supports and fastening in TS enclosure				Packs of	Maxi-PLS 1600/2000		Maxi-PLS 3200	
					Model No.		Model No.	
					3-pole	4-pole	3-pole	4-pole
	A Busbar supports Material: Polyamide (PA 6.6)			1 pc(s).	9649.000		9659.000	
	B Busbar support, suitable for top mounting Material: Polyamide (PA 6.6)			1 pc(s).	9649.160		9659.160	
	C End support Material: Polyamide (PA 6.6)			2 pc(s).	9649.010		9659.010	
	D System attachment to install busbar supports. Material: Stainless steel							
	For application	For enclosure depth inches (mm)	Bar center distance inches (mm)	Packs of	Model No.		Model No.	
	D1 in the roof/base section/directly above/below coupling switch	24 (600)	4 (100)	2 pc(s).	9640.080		-	
			6 (150)	2 pc(s).	-		9650.100	
		32 (800)	6 (150)	2 pc(s).	-		9650.080	
	D2 rear enclosure section, top/bottom	-	6 (150)	2 pc(s).	-		9650.098	
	D3 rear enclosure section, center 7" (185 mm)	-	7 (185)	2 pc(s).	3-pole	4-pole	3-pole	4-pole
					9640.150	-	9650.150	-

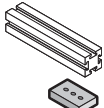
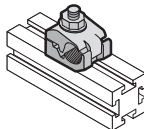
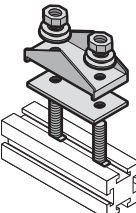
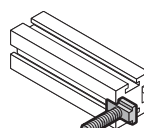
A Maxi-PLS Busbars, E-Cu					Maxi-PLS 1600	Maxi-PLS 2000	Maxi-PLS 3200
					Model No.		Model No.
For enclosure width inches (mm)	For application ¹⁾	Length inches (mm)	Packs of				
24 (600)	a	19 (491)	1 pc(s).		9640.206	9640.201	9650.201
24 (600)	b	21 (525)	1 pc(s).		9640.216	9640.211	9650.211
24 (600)	c	24 (599)	1 pc(s).		9640.226	9640.221	9650.221
32 (800)	a	27 (691)	1 pc(s).		9640.236	9640.231	9650.231
32 (800)	b	29 (725)	1 pc(s).		9640.246	9640.241	9650.241
32 (800)	c	31 (799)	1 pc(s).		9640.256	9640.251	9650.251
39 (1000)	a	35 (891)	1 pc(s).		9640.266	9640.261	9650.261
39 (1000)	b	36 (925)	1 pc(s).		9640.276	9640.271	9650.271
39 (1000)	c	39 (999)	1 pc(s).		9640.286	9640.281	9650.281
47 (1200)	a	43 (1091)	1 pc(s).		9640.296	9640.291	9650.291
47 (1200)	b	44 (1125)	1 pc(s).		9640.306	9640.301	9650.301
47 (1200)	c	47 (1199)	1 pc(s).		9640.316	9640.311	9650.311
–	–	94 (2400)	3 pc(s).		9640.365	9640.360	9650.360
–	–	94 (2400)	4 pc(s).		–	9649.360	9659.360
B Longitudinal connector E-Cu for easy bayed connection of Maxi-PLS busbars. Incl. sliding blocks, bolt, washers and nuts.				1 pc(s).	9640.191	9640.191	9650.191

¹⁾ a = Cable connection system with end support
b = Left-hand or right-hand end enclosure in a switchgear installation
c = Bayed enclosure with panels bayed on the left and right

Contact hazard protection		Packs of	Model No.	Model No.
	A Cover section for clip-on mounting on the Maxi-PLS busbars, length 39" (1000 mm). Material: Hard PVC	5 pc(s).	9640.050	9650.050
	B End cover for clip-on mounting on the end surface of Maxi-PLS busbars. Material: Polyamide (PA 6.6)	2 pc(s).	9649.060	9659.060

Maxi-PLS Busbar System

System components

Connection systems				Packs of	Maxi-PLS 1600/2000 Model No.	Maxi-PLS 3200 Model No.
	Contact makers E-Cu to make the contact between the connection brackets and Maxi-PLS busbars. Incl. sliding blocks.					
	Width mm	60		1 pc(s).	9640.171	9650.171
		100		1 pc(s).	9640.181	9650.181
	Terminals to connect round conductors (Cu/Al) 95 to 300 mm ² (single-wire and multi-wire). Incl. assembly components.					
				1 pc(s).	9640.325	9650.325
	Connection plates to connect laminated copper bars. Incl. assembly components.					
	Clamping area max. mm	2 x 10 x 32 x 1		3 pc(s).	9640.330	9650.330
		2 x 10 x 63 x 1		3 pc(s).	9640.340	9650.340
		2 x 10 x 100 x 1		3 pc(s).	9640.350	–
	Terminal studs for connecting cables with cable lugs, incl. sliding blocks.				Length 30 mm	Length 32 mm
	Thread	M12		3 pc(s).	9640.370	9650.370
		M16		3 pc(s).	9640.380	9650.380
	Sliding blocks inserted into the Maxi-PLS busbar profile at the sides.					
	Thread	M8	Length 20 mm	15 pc(s).	9640.970	–
		M10	Length 25 mm	15 pc(s).	9640.980	9650.980
		M12	Length 35 mm	15 pc(s).	–	9650.990
	Sliding nuts for retrospective insertion into the Maxi-PLS busbar profile.					
	Thread	M6		15 pc(s).	9640.900	9650.900
		M8		15 pc(s).	9640.910	–
				3 pc(s).	–	9650.905
		M10		15 pc(s).	9640.920	9650.910
	Thread	M12		15 pc(s).	–	9650.920
		Threaded bolts for individual connection options. Incl. nuts and washers, spring lock washers (only M6 and M8) or washers (only M10 and M12). Note: Additional sliding blocks or sliding nuts are required to secure.				
		M6	Length 35 mm	6 pc(s).	9640.930	9640.930
		M8	Length 35 mm	6 pc(s).	9640.940	9640.940
		M10	Length 35 mm	8 pc(s).	9676.971	9676.971
		M10	Length 45 mm	8 pc(s).	9676.972	9676.972
		M10	Length 55 mm	8 pc(s).	9676.973	9676.973
		M10	Length 70 mm	8 pc(s).	9676.976	9676.976
		M10	Length 80 mm	8 pc(s).	9676.977	9676.977
		M12	Length 40 mm	8 pc(s).	–	9676.981
		M12	Length 50 mm	8 pc(s).	–	9676.982
		M12	Length 60 mm	8 pc(s).	–	9676.983
		M12	Length 70 mm	8 pc(s).	–	9676.986
		M12	Length 80 mm	8 pc(s).	–	9676.987

Rittal Power Engineering

Planning software for RiLine busbar systems and Ri4Power low-voltage switchgear with design certificate

The multilingual software provides the following functionalities:

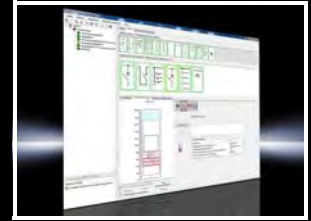
- Project handling, from the initial inquiry through to ordering
- Configuration of RiLine busbar systems in the TS enclosure, compact enclosures AE, CM, KS and free-standing enclosure SE
- Configuration of low-voltage switchgear with Ri4Power systems Form 1-4
- Complete, automatic function for the generation of bills of materials and a calculation program for quote preparation
- Input and evaluation of assembly times to calculate man hours
- Access to the entire range of Rittal products
- Output of automatically generated plant documentation with rated current and power loss calculation

Packs of	Model No.
1 pc(s).	3020.500

- Generation of special fields configured by the customer with graphical processing in the CAD view
- Import/export interfaces for product and CAD data
- Export function for order lists and bills of materials in Excel format
- Interface to Eplan Electric P8 for the export of CAD data and bills of materials
- The extra benefit for engineering and planning offices: Output of detailed tender texts on the basis of projected Power Engineering systems in MS Word format
- Output of project-specific assembly plans together with field and plant definitions
- Integral configurator for the generation of drawings and bills of materials to create connector kits for connecting open air circuit-breakers (ACB)
- Simple generation of design verification certificate in accordance with IEC 61439

Supply includes:

- DVD-ROM
- Languages: German/English/French/Dutch/Danish/Swedish/Czech/Italian/Spanish/Polish/Russian/Chinese



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Rittal Catalog 34/Climate Control

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TÜV-tested performance to DIN EN 14511:2012-01

Rittal is the only supplier in the world to offer a full range of enclosure cooling units tested to the latest (DIN) EN standard (except cooling units with protection category NEMA 3R or NEMA 4X).

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- Rittal – Type-tested climate control software



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Climate Control from the smallest to the largest

- Air cooling
- Cooling units
- Liquid cooling
- Enclosure heaters



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- Energy savings of up to 45% with cooling units from the “Blue e” generation



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Faster – Easy project planning with the Therm App

Better – Efficient and energy-saving climate control technology, TÜV-tested

Everywhere – Global spare parts service



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CLIMATE CONTROL



IT INFRASTRUCTURE

SOFTWARE & SERVICES



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Air Cooling

TopTherm Filter Fans

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TopTherm Filter Fans



Air throughputs including outlet filter and protection categories Page 250 Climate control accessories Page 305 Therm software package Page 321

Color:

- RAL 7035

Supply includes:

- Complete unit ready to install, including filter mat

Note:

- For energy-efficient operation of the filter fans, we recommend using the enclosure internal thermostat, the speed control or the digital enclosure internal temperature display and thermostat

Approvals:

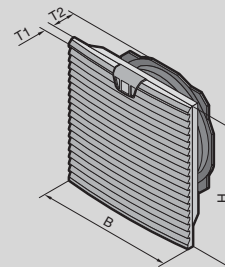
Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet



Air throughput 12 – 32 cfm (20 – 55 m³/h)

Model No.	Packs of	3237.100	3237.110	3237.124	3238.100	3238.110	3238.124	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	24 (DC)	230, 1~, 50/60	115, 1~, 50/60	24 (DC)	
Air throughput (unimpeded air flow) cfm (m³/h)		12/15 (20/25)	12/15 (20/25)	12 (20)	32/39 (55/66)	32/39 (55/66)	32 (55)	
Rated current A		0.065/0.052	0.12/0.1	0.125	0.12/0.11	0.24/0.22	0.24	
Pre-fuse A		2	2	2	2	2	2	
Motor circuit-breaker		–	–	–	–	–	–	
Power consumption W		11/9	11/9	3	19/18	19/18	5.5	
Height (H) inches (mm)		5 (116.5)	5 (116.5)	5 (116.5)	6 (148.5)	6 (148.5)	6 (148.5)	
Width (B) inches (mm)		5 (116.5)	5 (116.5)	5 (116.5)	6 (148.5)	6 (148.5)	6 (148.5)	
Depth (T1) inches (mm)		1 (16)	1 (16)	1 (16)	1 (16)	1 (16)	1 (16)	
Maximum installation depth (T2) inches (mm)		2 (43)	2 (43)	2 (43)	2 (58.5)	2 (58.5)	2 (58.5)	
Required mounting cut-out (HxW) inches (mm)		4 x 4 (92 x 92)	4 x 4 (92 x 92)	4 x 4 (92 x 92)	5 x 5 (124 x 124)	5 x 5 (124 x 124)	5 x 5 (124 x 124)	
Fan		Axial, self-starting shaded pole motor	Axial, self-starting shaded pole motor	Axial, DC motor	Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	Diagonal, DC motor	
Operating temperature range		+5°F...+131°F	+5°F...+131°F	+5°F...+131°F	+5°F...+131°F	+5°F...+131°F	+5°F...+131°F	
Storage temperature range		-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	
Noise pressure level dB (A)		38/43	38/43	38	46/49	46/49	46	

Accessories

Outlet Filters	1 pc(s).	3237.200	3237.200	3237.200	3238.200	3238.200	3238.200	308
Spare Filter Mats		see page	see page	see page	see page	see page	see page	307
Fine Filter Mats	5 pc(s).	–	–	–	3238.055	3238.055	3238.055	307
Hose-Proof Hood	1 pc(s).	3237.080	3237.080	3237.080	3238.080	3238.080	3238.080	308
Blanking Cover	2 pc(s).	3237.020	3237.020	3237.020	3238.020	3238.020	3238.020	308
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	315
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	315
Hygostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	316
Speed Control	1 pc(s).	3120.200	3120.200	–	3120.200	3120.200	–	317

Air throughput 62 – 106 cfm (105 – 180 m³/h)

Model No.	Packs of	3239.100	3239.110	3239.124	3240.100	3240.110	3240.124	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	24 (DC)	230, 1~, 50/60	115, 1~, 50/60	24 (DC)	
Air throughput (unimpeded air flow) cfm (m³/h)		62/71 (105/120)	62/71 (105/120)	62 (105)	106/94 (180/160)	106/94 (180/160)	106 (180)	
Rated current A		0.12/0.11	0.24/0.22	0.23	0.21/0.19	0.42/0.38	0.43	
Pre-fuse A		2	2	2	2	4	2	
Motor circuit-breaker		–	–	–	–	–	–	
Power consumption W		19/18	19/18	5.5	35/34	35/34	10	
Height (H) inches (mm)		8 (204)	8 (204)	8 (204)	10 (255)	10 (255)	10 (255)	
Width (B) inches (mm)		8 (204)	8 (204)	8 (204)	10 (255)	10 (255)	10 (255)	
Depth (T1) inches (mm)		1 (24)	1 (24)	1 (24)	1 (25)	1 (25)	1 (25)	
Maximum installation depth (T2) inches (mm)		4 (90)	4 (90)	4 (90)	4 (107)	4 (107)	4 (107)	
Required mounting cut-out (HxW) inches (mm)		7 x 7 (177 x 177)	7 x 7 (177 x 177)	7 x 7 (177 x 177)	9 x 9 (224 x 224)	9 x 9 (224 x 224)	9 x 9 (224 x 224)	
Fan		Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	Diagonal, DC motor	Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	Diagonal, DC motor	
Operating temperature range		+5°F...+131°F	+5°F...+131°F	+5°F...+131°F	-22°F...+131°F	-22°F...+131°F	-22°F...+131°F	
Storage temperature range		-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	
Noise pressure level dB (A)		46/49	46/49	46	51/46	51/46	51	

Accessories

Outlet Filters	1 pc(s).	3239.200	3239.200	3239.200	3240.200	3240.200	3240.200	308
Spare Filter Mats		see page	see page	see page	see page	see page	see page	307
Fine Filter Mats	5 pc(s).	3181.100	3181.100	3181.100	3182.100	3182.100	3182.100	307
Hose-Proof Hood	1 pc(s).	3239.080	3239.080	3239.080	3240.080	3240.080	3240.080	308
Blanking Cover	2 pc(s).	3239.020	3239.020	3239.020	3240.020	3240.020	3240.020	308
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	315
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	315
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	316
Speed Control	1 pc(s).	3120.200	3120.200	–	3120.200	3120.200	–	317

Air throughput 135 – 323 cfm (230 – 550 m³/h)

Model No.	Packs of	3241.100	3241.110	3241.124	3243.100	3243.110	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	24 (DC)	230, 1~, 50/60	115, 1~, 50/60	
Air throughput (unimpeded air flow) cfm (m³/h)		135/147 (230/250)	135/147 (230/250)	135 (230)	323/353 (550/600)	323/353 (550/600)	
Rated current A		0.26/0.24	0.52/0.48	0.8	0.37/0.39	0.78/0.8	
Pre-fuse A		4	4	2	4	6	
Motor circuit-breaker		–	–	–	–	–	
Power consumption W		40/42	40/42	19	70/87	75/90	
Height (H) inches (mm)		10 (255)	10 (255)	10 (255)	13 (323)	13 (323)	
Width (B) inches (mm)		10 (255)	10 (255)	10 (255)	13 (323)	13 (323)	
Depth (T1) inches (mm)		1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	
Maximum installation depth (T2) inches (mm)		4 (107)	4 (107)	4 (107)	5 (118.5)	5 (118.5)	
Required mounting cut-out (HxW) inches (mm)		9 x 9 (224 x 224)	9 x 9 (224 x 224)	9 x 9 (224 x 224)	12 x 12 (292 x 292)	12 x 12 (292 x 292)	
Fan		Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	Diagonal, DC motor	Diagonal, 1~ capacitor motor	Diagonal, 1~ capacitor motor	
Operating temperature range		-22°F...+131°F	-22°F...+131°F	-22°F...+131°F	-22°F...+131°F	-22°F...+131°F	
Storage temperature range		-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	
Noise pressure level dB (A)		54/56	54/56	54	59/61	59/61	

Accessories

Outlet Filters	1 pc(s).	3240.200	3240.200	3240.200	3243.200	3243.200	308
Spare Filter Mats		see page	see page	see page	see page	see page	307
Fine Filter Mats	5 pc(s).	3182.100	3182.100	3182.100	3183.100	3183.100	307
Hose-Proof Hood	1 pc(s).	3240.080	3240.080	3240.080	3243.080	3243.080	308
Blanking Cover	2 pc(s).	3240.020	3240.020	3240.020	3243.020	3243.020	308
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	315
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	315
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	316
Speed Control	1 pc(s).	3120.200	3120.200	–	3120.200	3120.200	317

TopTherm Filter Fans

Air throughput 412 cfm (700 m³/h)

Model No.	Packs of	3244.100	3244.110	3244.140	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Air throughput (unimpeded air flow) cfm (m³/h)		412/453 (700/770)	412/453 (700/770)	412/453 (700/770)	
Rated current A		0.43/0.6	0.9/1.25	0.17/0.21	
Pre-fuse A		4	6	—	
Motor circuit-breaker A		—	—	6.3...10	
Power consumption W		95/135	100/145	93/140	
Height (H) inches (mm)		13 (323)	13 (323)	13 (323)	
Width (B) inches (mm)		13 (323)	13 (323)	13 (323)	
Depth (T1) inches (mm)		1 (25)	1 (25)	1 (25)	
Maximum installation depth (T2) inches (mm)		5 (130.5)	5 (130.5)	5 (130.5)	
Required mounting cut-out (HxW) inches (mm)		12 x 12 (292 x 292)	12 x 12 (292 x 292)	12 x 12 (292 x 292)	
Fan		Diagonal, 1~ capacitor motor	Diagonal, 1~ capacitor motor	Diagonal, three-phase motor	
Operating temperature range		-22°F...+131°F	-22°F...+131°F	-22°F...+131°F	
Storage temperature range		-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	
Noise pressure level dB (A)		65/66	65/66	65/66	

Accessories					
Outlet Filters	1 pc(s).	3243.200	3243.200	3243.200	308
Spare Filter Mats		see page	see page	see page	307
Fine Filter Mats	5 pc(s).	3183.100	3183.100	3183.100	307
Hose-Proof Hood	1 pc(s).	3243.080	3243.080	3243.080	308
Blanking Cover	2 pc(s).	3243.020	3243.020	3243.020	308
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	—	315
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	—	315
Hygrostat	1 pc(s).	3118.000	3118.000	—	316
Speed Control	1 pc(s).	3120.200	3120.200	—	317

Accessories



Spare Filter Mats

See page 307



Air throughputs including outlet filter and protection categories Page 250 **Climate control accessories** Page 305 **Therm software package** Page 321

Energy-efficient version of the TopTherm filter fans with diagonal fan technology. Fans 3240.500 to 3245.510 may be controlled and monitored. The fan may be activated via the control interface with tacho signal output integrated as standard. Also, monitoring of the fan speed and function is supported.

Color:

- RAL 7035

Supply includes:

- Complete unit ready to install, including filter mat

Note:

- For even more efficient operation or for monitoring the filter fans, we recommend the use of an EC speed control for EC filter fans

Approvals:

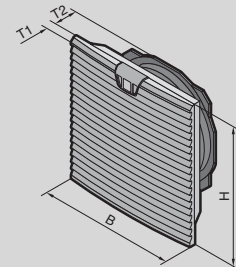
Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet



Air throughput 32 – 135 cfm (55 – 230 m³/h), with EC technology

Model No.	Packs of	3238.500	3239.500	3240.500	3241.500	Page
Control interface		–	–	■	■	
Rated operating voltage V, ~, Hz		200 - 240, 1~, 50/60	200 - 240, 1~, 50/60	200 - 240, 1~, 50/60	200 - 240, 1~, 50/60	
Air throughput (unimpeded air flow) cfm (m³/h)		32 (55)	62 (105)	106 (180)	135 (230)	
Rated current A		0.05	0.05	0.12	0.17	
Pre-fuse A		6	6	6	6	
Power consumption W		6	6	11	16	
Height (H) inches (mm)		6 (148.5)	8 (204)	10 (255)	10 (255)	
Width (B) inches (mm)		6 (148.5)	8 (204)	10 (255)	10 (255)	
Depth (T1) inches (mm)		1/16	1/24	1/25	1/25	
Maximum installation depth (T2) inches (mm)		2 (58.5)	4 (90)	4 (107)	4 (107)	
Required mounting cut-out (HxW) inches (mm)		5 x 5 (124 x 124)	7 x 7 (177 x 177)	9 x 9 (224 x 224)	9 x 9 (224 x 224)	
Fan		Diagonal, EC motor	Diagonal, EC motor	Diagonal, EC motor	Diagonal, EC motor	
Operating temperature range		-4°F...+131°F	-4°F...+131°F	-13°F...+131°F	-13°F...+131°F	
Storage temperature range		-22°F...+158°F	-22°F...+158°F	-13°F...+158°F	-13°F...+158°F	
Noise pressure level dB (A)		49	53	47	52	

Accessories

Outlet Filters	1 pc(s).	3238.200	3239.200	3240.200	3240.200	308
Spare Filter Mats		see page	see page	see page	see page	307
Fine Filter Mats	5 pc(s).	3238.055	3181.100	3182.100	3182.100	307
Hose-Proof Hood	1 pc(s).	3238.080	3239.080	3240.080	3240.080	308
Blanking Cover	2 pc(s).	3238.020	3239.020	3240.020	3240.020	308
Speed Control EC		–	–	from page	from page	316
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	315
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	315
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	316

TopTherm Filter Fans

Air throughput 323 – 530 cfm (550 – 900 m³/h), with EC technology

Model No.	Packs of	3243.500	3244.500	3245.500	3245.510	Page
Control interface		■	■	■	■	
Rated operating voltage V, ~, Hz		200 - 240, 1~, 50/60	200 - 240, 1~, 50/60	200 - 240, 1~, 50/60	100 - 130, 1~, 50/60	
Air throughput (unimpeded air flow) cfm (m ³ /h)		323 (550)	412 (700)	530 (900)	530 (900)	
Rated current A		0.5	0.7	1.33	2.1	
Pre-fuse A		6	6	4	6	
Power consumption W		51	80	165	165	
Height (H) inches (mm)		13 (323)	13 (323)	13 (323)	13 (323)	
Width (B) inches (mm)		13 (323)	13 (323)	13 (323)	13 (323)	
Depth (T1) inches (mm)		1 (25)	1 (25)	1 (25)	1 (25)	
Maximum installation depth (T2) inches (mm)		5 (118.5)	5 (130.5)	5 (130.5)	5 (130.5)	
Required mounting cut-out (HxW) inches (mm)		12 x 12 (292 x 292)	12 x 12 (292 x 292)	12 x 12 (292 x 292)	12 x 12 (292 x 292)	
Fan		Diagonal, EC motor	Diagonal, EC motor	Diagonal, EC motor	Diagonal, EC motor	
Operating temperature range		-13°F...+131°F	-13°F...+131°F	-13°F...+131°F	-13°F...+131°F	
Storage temperature range		-13°F...+158°F	-13°F...+158°F	-13°F...+158°F	-13°F...+158°F	
Noise pressure level dB (A)		63	64	72	72	
Accessories						
Outlet Filters	1 pc(s).	3243.200	3243.200	3243.200	3243.200	308
Spare Filter Mats		see page	see page	see page	see page	307
Fine Filter Mats	5 pc(s).	3183.100	3183.100	3183.100	3183.100	307
Hose-Proof Hood	1 pc(s).	3243.080	3243.080	3245.080	3245.080	308
Blanking Cover	2 pc(s).	3243.020	3243.020	3243.020	3243.020	308
Speed Control EC		from page	from page	from page	from page	316
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	315
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	315
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	316

Accessories



Speed Control EC

See page 316



Air throughputs including outlet filter and protection categories Page 250 Climate control accessories Page 305 Therm software package Page 321

Color:

- RAL 7035

Supply includes:

- Complete unit ready to install, including filter mat

Note:

- For energy-efficient operation of the filter fans, we recommend using the enclosure internal thermostat, the speed control or the digital enclosure internal temperature display and thermostat

Approvals:

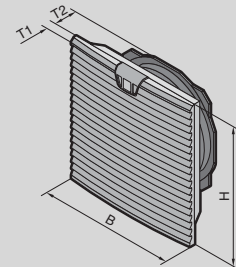
Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet



Air throughput 12 – 32 cfm (20 – 55 m³/h), EMC

Model No.	Packs of	3237.600	3237.610	3238.600	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	
Air throughput (unimpeded air flow) cfm (m³/h)		12/15 (20/25)	12/15 (20/25)	32/39 (55/66)	
Rated current A		0.065/0.052	0.12/0.1	0.12/0.11	
Pre-fuse A		2	2	2	
Power consumption W		11/9	11/9	19/18	
Height (H) inches (mm)		4.5 (116.5)	4.5 (116.5)	6 (148.5)	
Width (B) inches (mm)		4.5 (116.5)	4.5 (116.5)	6 (148.5)	
Depth (T1) inches (mm)		1 (16)	1 (16)	1 (16)	
Maximum installation depth (T2) inches (mm)		2 (43)	2 (43)	2 (58.5)	
Required mounting cut-out (HxW) inches (mm)		4 x 4 (92 x 92)	4 x 4 (92 x 92)	5 x 5 (124 x 124)	
Fan		Axial, self-starting shaded pole motor	Axial, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	
Operating temperature range		+5°F...+131°F	+5°F...+131°F	+5°F...+131°F	
Storage temperature range		-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	
Noise pressure level dB (A)		38/43	38/43	46/49	

Accessories

Outlet Filters	1 pc(s).	3237.060	3237.060	3238.060	308
Spare Filter Mats	5 pc(s).	3237.066	3237.066	3238.066	307
Fine Filter Mats	5 pc(s).	–	–	3238.055	307
Hose-Proof Hood	1 pc(s).	3237.080	3237.080	3238.080	308
Blanking Cover	2 pc(s).	3237.020	3237.020	3238.020	308
Speed Control EC		–	–	–	
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	315
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	315
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	316
Speed Control	1 pc(s).	3120.200	3120.200	3120.200	317

TopTherm Filter Fans

Air throughput 62 – 106 cfm (105 – 180 m³/h), EMC

Model No.	Packs of	3239.600	3240.600	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	230, 1~, 50/60	
Air throughput (unimpeded air flow) cfm (m³/h)		62/71 (105/120)	106/94 (180/160)	
Rated current A		0.12/0.11	0.21/0.19	
Pre-fuse A		2	2	
Power consumption W		19/18	35/34	
Height (H) inches (mm)		8 (204)	10 (255)	
Width (B) inches (mm)		8 (204)	10 (255)	
Depth (T1) inches (mm)		1 (24)	1 (25)	
Maximum installation depth (T2) inches (mm)		4 (90)	4 (107)	
Required mounting cut-out (HxW) inches (mm)		7 x 7 (177 x 177)	9 x 9 (224 x 224)	
Fan		Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	
Operating temperature range		+5°F...+131°F	-22°F...+131°F	
Storage temperature range		-22°F...+158°F	-22°F...+158°F	
Noise pressure level dB (A)		46/49	51/46	

Accessories

Outlet Filters	1 pc(s).	3239.060	3240.060	308
Spare Filter Mats	5 pc(s).	3239.066	3240.066	307
Fine Filter Mats	5 pc(s).	3181.100	3182.100	307
Hose-Proof Hood	1 pc(s).	3239.080	3240.080	308
Blanking Cover	2 pc(s).	3239.020	3240.020	308
Speed Control EC		–	–	316
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	315
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	315
Hygrostat	1 pc(s).	3118.000	3118.000	316
Speed Control	1 pc(s).	3120.200	3120.200	317

Accessories



Therm Software

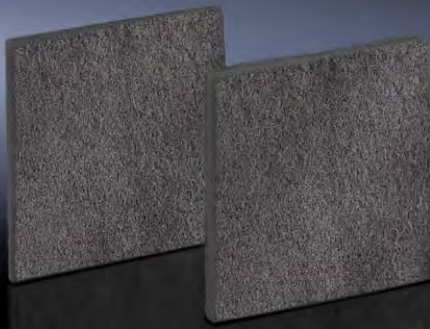
See page 321

Air throughput 135 – 530 cfm (230 – 900 m³/h), EMC

Model No.	Packs of	3241.600	3241.610	3243.600	3243.610	3244.600	3244.610	3245.600	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	200 - 240, 1~, 50/60	
Air throughput, unimpeded airflow cfm (m³/h)		135/147 (230/250)	135/147 (230/250)	324/353 (550/600)	324/353 (550/600)	412/453 (700/770)	412/453 (700/770)	530 (900)	
Rated current A		0.26/0.24	0.52/0.48	0.37/0.39	0.78/0.80	0.43/0.6	0.9/1.25	1.33/1.33	
Pre-fuse A		4	4	4	6	4	6	4	
Power consumption W		40/42	40/42	70/87	75/90	95/135	100/145	165/165	
Height (H) inches (mm)		10 (255)	10 (255)	13 (323)	13 (323)	13 (323)	13 (323)	13 (323)	
Width (B) inches (mm)		10 (255)	10 (255)	13 (323)	13 (323)	13 (323)	13 (323)	13 (323)	
Depth (T1) inches (mm)		1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	
Max. installation depth (T2) inches (mm)		4 (107)	4 (107)	5 (118.5)	5 (118.5)	5 (130.5)	5 (130.5)	5 (130.5)	
Required mounting cut-out (HxW) inches (mm)		9 x 9 (224 x 224)	9 x 9 (224 x 224)	11 x 11 (292 x 292)	11 x 11 (292 x 292)	11 x 11 (292 x 292)	11 x 11 (292 x 292)	11 x 11 (292 x 292)	
Fan		Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	Diagonal, 1~ capacitor motor	Diagonal, 1~ capacitor motor	Diagonal, 1~ capacitor motor	Diagonal, 1~ capacitor motor	Diagonal, EC motor	
Operating temperature range		-22°F...+131°F	-22°F...+131°F	-22°F...+131°F	-22°F...+131°F	-22°F...+131°F	-22°F...+131°F	-13°F...+131°F	
Storage temperature range		-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-22°F...+158°F	-13°F...+158°F	
Noise pressure level dB (A)		54/56	54/56	59/61	59/61	65/66	65/66	72	

Accessories									
Outlet Filters	1 pc(s).	3240.060	3240.060	3243.060	3243.060	3243.060	3243.060	3243.060	308
Spare Filter Mats	5 pc(s).	3240.066	3240.066	3243.066	3243.066	3243.066	3243.066	3243.066	307
Fine Filter Mats	5 pc(s).	3182.100	3182.100	3183.100	3183.100	3183.100	3183.100	3183.100	307
Hose-Proof Hood	1 pc(s).	3240.080	3240.080	3243.080	3243.080	3243.080	3243.080	3245.080	308
Blanking Cover	2 pc(s).	3240.020	3240.020	3243.020	3243.020	3243.020	3243.020	3243.020	308
Speed Control EC		–	–	–	–	–	–	from page	316
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	315
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	315
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	316
Speed Control	1 pc(s).	3120.200	3120.200	3120.200	3120.200	3120.200	3120.200	–	317

Accessories



Spare Filter Mat EMC

See page 307

TopTherm Filter Fans

Air Throughput and Protection Category

TopTherm Filter Fans

Model No.	Air throughput cfm (m³/h) at 50/60 Hz				Protection category IP to IEC 60 529		
	Unimpeded air flow	with outlet filter incl. filter mat			Standard	with additional fine filter mat	with hose-proof hood
3237.100	12/15 (20/25)	1 x 3237.200 9/11 (15/18)	-	-	IP 54	-	IP 56
3237.110							
3237.124	12 (20)						
3238.100	32/39 (55/66)	1 x 3238.200 25/29 (43/50)	2 x 3238.200 28/34 (48/57)	-			
3238.110							
3238.124	32 (55)	1 x 3238.200 25 (43)	2 x 3238.200 28 (48)				
3239.100	62/71 (105/120)	1 x 3239.200 51/59 (87/100)	2 x 3239.200 55/64 (93/108)	1 x 3240.200 58/65 (98/111)			
3239.110							
3239.124	62 (105)	1 x 3239.200 51 (87)	2 x 3239.200 55 (93)	1 x 3240.200 58 (98)			
3240.100	106/94 (180/160)	1 x 3240.200 81/68 (138/115)	2 x 3240.200 97/82 (165/140)	1 x 3243.200 97/82 (165/140)			
3240.110							
3240.124	106 (180)	1 x 3240.200 81 (138)	2 x 3240.200 97 (165)	1 x 3243.200 97 (165)			
3241.100	135/147 (230/250)	1 x 3240.200 108/115 (183/195)	2 x 3240.200 119/135 (203/230)	1 x 3243.200 119/135 (203/230)			
3241.110							
3241.124	135 (230)	1 x 3240.200 108 (183)	2 x 3240.200 119 (203)	1 x 3243.200 119 (203)			
3243.100	324/353 (550/600)	1 x 3243.200 259/288 (440/490)	2 x 3243.200 300/330 (510/560)	-			
3243.110							
3244.100	412/453 (700/770)	1 x 3243.200 320/359 (544/610)	2 x 3243.200 371/406 (630/690)	-			
3244.110							
3244.140							

TopTherm Filter Fans with EC Technology

Model No.	Air throughput cfm (m³/h) at 50/60 Hz				Protection category IP to IEC 60 529		
	Unimpeded air flow	with outlet filter incl. filter mat			Standard	with additional fine filter mat	with hose-proof hood
3238.500	32 (55)	1 x 3238.200 25 (43)	2 x 3238.200 28 (48)	-	IP 54	IP 55	IP 56
3239.500	62 (105)	1 x 3239.200 51 (87)	2 x 3239.200 55 (93)	1 x 3240.200 58 (98)			
3240.500	106 (180)	1 x 3240.200 81 (138)	2 x 3240.200 97 (165)	1 x 3243.200 97 (165)			
3241.500	135 (230)	1 x 3240.200 108 (183)	2 x 3240.200 119 (203)	1 x 3243.200 119 (203)			
3243.500	324 (550)	1 x 3243.200 259 (440)	2 x 3243.200 300 (510)	-			
3244.500	412 (700)	1 x 3243.200 320 (544)	2 x 3243.200 371 (630)	-			
3245.500	530 (900)	1 x 3243.200 400 (680)	2 x 3243.200 483 (820)	-	IP 51	IP 52	
3245.510	530 (900)	1 x 3243.200 400 (680)	2 x 3243.200 483 (820)	-			

Air Throughput and Protection Category

TopTherm Filter Fans EMC

Model No.	Air throughput cfm (m³/h) at 50/60 Hz				Protection category IP to IEC 60 529		
	Unimpeded air flow	with EMC outlet filter incl. EMC filter mat			Standard	with additional fine filter mat	with hose-proof hood
3237.600	12/15 (20/25)	1 x 3237.060 9/11 (15/18)	–	–	IP 54	–	IP 56
3237.610	12/15 (20/25)	1 x 3237.060 9/11 (15/18)	–	–		–	
3238.600	32/39 (55/66)	1 x 3238.060 25/29 (43/50)	2 x 3238.060 28/34 (48/57)	–		IP 55	
3239.600	62/71 (105/120)	1 x 3239.060 51/59 (87/100)	2 x 3239.060 55/64 (93/108)	1 x 3240.060 58/65 (98/111)			
3240.600	106/94 (180/160)	1 x 3240.060 81/68 (138/115)	2 x 3240.060 97/82 (165/140)	1 x 3243.060 97/82 (165/140)			
3241.600	135/147 (230/250)	1 x 3240.060 108/115 (183/195)	2 x 3240.060 119/135 (203/230)	1 x 3243.060 119/135 (203/230)			
3241.610	135/147 (230/250)	1 x 3240.060 108/115 (183/195)	2 x 3240.060 119/135 (203/230)	1 x 3243.060 119/135 (203/230)			
3243.600	324/353 (550/600)	1 x 3243.060 259/288 (440/490)	2 x 3243.060 300/330 (510/560)	–			
3243.610	324/353 (550/600)	1 x 3243.060 259/288 (440/490)	2 x 3243.060 300/330 (510/560)	–			
3244.600	412/453 (700/770)	1 x 3243.060 320/359 (544/610)	2 x 3243.060 371/406 (630/690)	–			
3244.610	412/453 (700/770)	1 x 3243.060 320/359 (544/610)	2 x 3243.060 371/406 (630/690)	–			
3245.600	530 (900)	1 x 3243.060 400 (680)	2 x 3243.060 483 (820)	–	IP 51	IP 52	



Expert knowledge from the experts

See Rittal websites

TopTherm Roof-Mounted Fans



Climate control accessories Page 305 Vent attachment TS Page 319

The active roof-mounted fans fit exactly on the cut-outs of small and medium performance category of the TopTherm roof-mounted cooling units.

Material:

- Carbon steel, spray finished

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 43

Supply includes:

- Unit ready for installation with built-in radial fan
- Sealing and assembly components

Technical details:

Available on the Internet

Air throughput 235 – 471 cfm (400 – 800 m³/h)

Model No.	Packs of	3149.410	3149.420	3149.440	3149.810	3149.820	3149.840	Page
Rated operating voltage V, ~, Hz		115, 1~, 50/60	230, 1~, 50/60	400, 3~, 50/60 460, 3~, 60	115, 1~, 50/60	230, 1~, 50/60	400, 3~, 50/60 460, 3~, 60	
Air throughput (unimpeded air flow) cfm (m ³ /h)		235 (400)	235 (400)	235 (400)	471 (800)	471 (800)	471 (800)	
Rated current A		1.1/1.6	0.55/0.88	0.35/0.35	1.5/2.2	0.75/1.1	0.35/0.55	
Power consumption W		120/170	120/170	95/140	170/225	170/225	180/310	
Height inches (mm)		5 (125)	5 (125)	5 (125)	5 (125)	5 (125)	5 (125)	
Width inches (mm)		22 (550)	22 (550)	22 (550)	22 (550)	22 (550)	22 (550)	
Depth inches (mm)		15 (370)	15 (370)	15 (370)	15 (370)	15 (370)	15 (370)	
Required mounting cut-out inches (mm)		19 x 10 (475 x 260)	19 x 10 (475 x 260)	19 x 10 (475 x 260)	19 x 10 (475 x 260)	19 x 10 (475 x 260)	19 x 10 (475 x 260)	
Operating temperature range		+14°F...+131°F	+14°F...+131°F	+14°F...+131°F	+14°F...+131°F	+14°F...+131°F	+14°F...+131°F	
Noise pressure level dB (A)		68/69	68/69	68/69	69/70	69/70	69/70	
Weight lb (kg)		22 (10.0)	22 (10.0)	22 (10.0)	24 (11.0)	24 (11.0)	24 (11.0)	
Accessories								
Roof Plates TS	1 pc(s).	8801.320	8801.320	8801.320	8801.320	8801.320	8801.320	319
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	–	3114.200	3114.200	–	315
Speed Control	1 pc(s).	3120.200	3120.200	–	3120.200	3120.200	–	317
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	–	3110.000	3110.000	–	315

Roof-Mounted Fan, Roof Vent



Climate control accessories Page 305

Material:

- Carbon steel, spray finished

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 43

Supply includes:

- Unit ready for installation with built-in radial fan
- Sealing and assembly components
- Connection cable (3 m)
- Drilling template

Note:

- Via additional installation of the filter holder with filter mat, a protection category of IP 44 is achieved with roof vent 3148.007

Technical details:

Available on the Internet

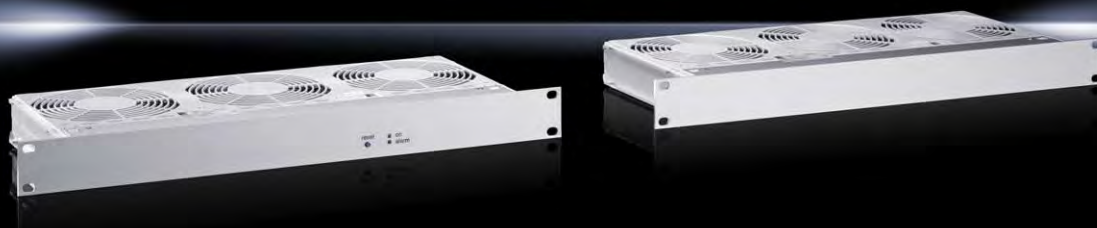
Air throughput 212 cfm (360 m³/h)

Model No.	Packs of	3148.007	3149.007	3169.007	Page
Rated operating voltage V, ~, Hz		without fan motor	230, 1~, 50/60	115, 1~, 50/60	
Air throughput (unimpeded air flow) cfm (m³/h)		–	212 (360)	212 (360)	
Rated current A		–	0.2	0.55	
Power consumption W		–	42	65	
Height inches (mm)		3 (65)	4 (95)	4 (95)	
Width inches (mm)		17 (420)	17 (420)	17 (420)	
Depth inches (mm)		13 (340)	13 (340)	13 (340)	
Required mounting cut-out inches (mm)		14 x 10 (345 x 265)	14 x 10 (345 x 265)	14 x 10 (345 x 265)	
Operating temperature range		+14°F...+140°F	+14°F...+140°F	+14°F...+140°F	
Noise pressure level dB (A)		–	53	53	
Weight lb (kg)		15 (6.8)	17 (7.8)	17 (7.8)	

Accessories

Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	–	3114.200	3114.200	315
Enclosure Internal Thermostat	1 pc(s).	–	3110.000	3110.000	315
Filter Holder	1 pc(s).	3175.000	–	–	309

Rack-Mounted Fans for 19" (482.6 mm)



Climate control accessories Page 305

Supply includes:

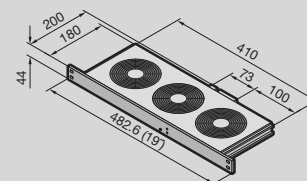
- Wired unit ready for installation
- Terminal strip and assembly components

Approvals:

Available on the Internet

Technical details:

Available on the Internet



Air throughput 188 – 283 cfm (320 – 480 m³/h)

Model No.	Packs of	3340.230	3341.115	3341.230	3342.024	3342.230	3342.500	Page
With monitoring		–	–	–	–	–	■	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	24 (DC)	230, 1~, 50/60	115 - 230, 1~, 50/60 24 (DC)	
Air throughput (unimpeded air flow) cfm (m ³ /h)		188 (320)	283 (480)	283 (480)	283 (480)	283 (480)	283 (480)	
Number of fans		2	3	3	3	3	3	
Distance between axes, inches (mm)		3 (85)	3 (85)	3 (85)	4 (105)	4 (105)	4 (105)	
Rated current A		0.24/0.22	0.69/0.69	0.36/0.33	0.74	0.36/0.33	0.85	
Pre-fuse A		6	6	6	6	6	6	
Height inches (mm)		2 (44)	2 (44)	2 (44)	2 (44)	2 (44)	2 (44)	
Width inches (mm)		19 (482.6)	19 (482.6)	19 (482.6)	19 (482.6)	19 (482.6)	19 (482.6)	
Depth inches (mm)		8 (200)	8 (200)	8 (200)	8 (200)	8 (200)	8 (200)	
Operating temperature range		+14°F...+131°F	+14°F...+131°F	+14°F...+131°F	+14°F...+131°F	+14°F...+131°F	+14°F...+131°F	
Noise pressure level dB (A)		51	52	51	51	51	51	
Accessories								
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	315
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	315
Speed Control	1 pc(s).	3120.200	3120.200	3120.200	–	3120.200	–	317

Vario Rack-Mounted Fans for 19" (482.6 mm)



Climate control accessories Page 305

Supply includes:

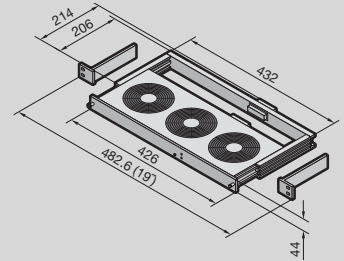
- Wired unit ready for installation
- Terminal strip and assembly components

Approvals:

Available on the Internet

Technical details:

Available on the Internet



Air throughput 188 – 283 cfm (320 – 480 m³/h)

Model No.	Packs of	3350.230	3351.230	3352.230	3352.500	Page
With monitoring		–	–	–	■	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	115 - 230, 1~, 50/60 24 (DC)	
Air throughput (unimpeded air flow) cfm (m³/h)		188 (320)	283 (480)	283 (480)	283 (480)	
Number of fans		2	3	3	3	
Distance between axes, inches (mm)		3 (85)	3 (85)	4 (105)	4 (105)	
Rated current A		0.24/0.22	0.36/0.33	0.36/0.33	0.85/0.85	
Pre-fuse A		6	6	6	6	
Height inches (mm)		2 (44)	2 (44)	2 (44)	2 (44)	
Width inches (mm)		19 (482.6)	19 (482.6)	19 (482.6)	19 (482.6)	
Depth inches (mm)		8 (200)	8 (200)	8 (200)	8 (200)	
Operating temperature range		+14°F...+131°F	+14°F...+131°F	+14°F...+131°F	+14°F...+131°F	
Noise pressure level dB (A)		51	51	51	51	

Also required

Guide Frame	1 pc(s).	3355.100	3355.100	3355.100	3357.100	320
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Accessories

Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	315
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	315
Speed Control	1 pc(s).	3120.200	3120.200	3120.200	–	317

Blower Fans for 19" (482.6 mm)



Climate control accessories Page 305

Supply includes:

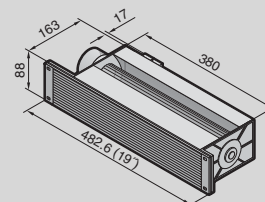
- Wired unit ready for installation
- Filter mat

Approvals:

Available on the Internet

Technical details:

Available on the Internet



Air throughput 188 cfm (320 m³/h)

Model No.	Packs of	3144.000	3145.000	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	
Air throughput (unimpeded air flow) cfm (m³/h)		188 (320)	188 (320)	
Rated current A		0.16	0.32	
Power consumption W		37	37	
Height inches (mm)		3 (88)	3 (88)	
Width inches (mm)		19 (482.6)	19 (482.6)	
Depth inches (mm)		6 (158)	6 (158)	
Operating temperature range		+14°F...+131°F	+14°F...+131°F	
Noise pressure level dB (A)		52	52	
Speed rpm		2245	2245	
Max. static pressure difference Pa		65 - 70	65 - 70	

Accessories

Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	315
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	315
Filter Mats	5 pc(s).	3177.000	3177.000	305
Roof Vent	1 pc(s).	3148.007	3148.007	253
Speed Control	1 pc(s).	3120.200	3120.200	317

TopTherm Air/Air Heat Exchangers



Climate control accessories Page 305

Temperature control:

- Electronic controller with digital display (factory setting +35°C)

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- Internal circuit IP 54

Supply includes:

- Complete unit ready for installation
- Plug-in terminal strip
- Floating fault signal contact in case of overtemperature

Approvals:

Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet

Specific thermal output 17.5 – 45 W/K, wall-mounted with controller

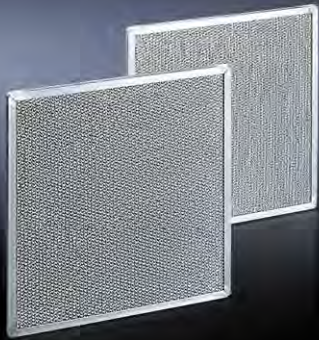
Model No.	Packs of	3126.100	3126.115	3127.100	3127.115	3128.100	3128.115	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	
Specific thermal output W/K		17.5	17.5	30	30	45	45	
Max. rated current per fan A		0.11/0.13	0.11/0.13	0.28/0.34	0.28/0.34	0.3/0.4	0.3/0.4	
Pre-fuse A		2	2	2	2	2	2	
Output per fan BTU (W)		78/92 (23/27)	78/92 (23/27)	205/256 (60/75)	205/256 (60/75)	239/307 (70/90)	239/307 (70/90)	
Air throughput of fans (unimpeded air flow), external circuit cfm (m³/h)		156/185 (265/315)	156/185 (265/315)	283/309 (480/525)	283/309 (480/525)	353/368 (600/625)	353/368 (600/625)	
Air throughput of fans (unimpeded air flow), internal circuit cfm (m³/h)		156/185 (265/315)	156/185 (265/315)	283/309 (480/525)	283/309 (480/525)	353/368 (600/625)	353/368 (600/625)	
Height inches (mm)		22 (550)	22 (550)	37 (950)	37 (950)	37 (950)	37 (950)	
Width inches (mm)		11 (280)	11 (280)	16 (400)	16 (400)	16 (400)	16 (400)	
Depth inches (mm)		6 (150)	6 (150)	8 (205)	8 (205)	8 (205)	8 (205)	
Operating temperature range		+23°F...+131°F	+23°F...+131°F	+23°F...+131°F	+23°F...+131°F	+23°F...+131°F	+23°F...+131°F	
Weight lb (kg)		22 (10.0)	22 (10.0)	40 (18.0)	40 (18.0)	42 (19.0)	42 (19.0)	
Accessories								
Filter Mats	3 pc(s).	3286.300	3286.300	3286.400	3286.400	3286.400	3286.400	305
Metal Filters	1 pc(s).	3286.310	3286.310	3286.410	3286.410	3286.410	3286.410	306

TopTherm Air/Air Heat Exchangers

Specific thermal output 60 – 90 W/K, wall-mounted with controller

Model No.	Packs of	3129.100	3129.115	3130.100	3130.115	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	
Specific thermal output W/K		60	60	90	90	
Max. rated current per fan A		0.38/0.4	0.38/0.4	0.67/0.88	0.67/0.88	
Pre-fuse A		2	2	4	4	
Output per fan BTU (W)		290/307 (85/90)	290/307 (85/90)	512/682 (150/200)	512/682 (150/200)	
Air throughput of fans (unimpeded air flow), external circuit cfm (m³/h)		506/530 (860/900)	506/530 (860/900)	500/556 (850/945)	500/556 (850/945)	
Air throughput of fans (unimpeded air flow), internal circuit cfm (m³/h)		506/530 (860/900)	506/530 (860/900)	500/556 (850/945)	500/556 (850/945)	
Height inches (mm)		37 (950)	37 (950)	62 (1580)	62 (1580)	
Width inches (mm)		16 (400)	16 (400)	16 (400)	16 (400)	
Depth inches (mm)		9 (225)	9 (225)	8 (215)	8 (215)	
Operating temperature range		+23°F...+131°F	+23°F...+131°F	+23°F...+131°F	+23°F...+131°F	
Weight lb (kg)		46 (21.0)	46 (21.0)	75 (34.0)	75 (34.0)	
Accessories						
Filter Mats	3 pc(s).	3286.400	3286.400	3286.400	3286.400	305
Metal Filters	1 pc(s).	3286.410	3286.410	3286.410	3286.410	306

Accessories



Metal Filters

See page 306

Rittal – The System.

Faster – better – everywhere.



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Cooling Units

Thermoelectric Cooler

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Wall-Mounted Cooling Units

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TopTherm Blue e	2559 BTU	266
TopTherm Blue e	3412 BTU	267
TopTherm Blue e	5118 BTU	269
TopTherm Blue e	6824 BTU	270
TopTherm Blue e	8530 BTU	271
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TopTherm Blue e, NEMA 4X.....	1706 – 5118 BTU	277
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TopTherm Blue e	1706 BTU	279
TopTherm Blue e	2559 BTU	280
TopTherm Blue e	3412 BTU	280
TopTherm Blue e	3753 – 5118 BTU	281
TopTherm Blue e	6824 BTU	282
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Modular Climate Control Concept

Blue e Cooling Module.....	5118/8530 BTU	284
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“Blue e” Generation

Continuous energy savings with cooling units from Rittal.

Saving in energy consumption **up to 45%** with the same cooling output (in ideal conditions, 70% in comparison to a conventional Rittal TopTherm Plus cooling unit in field testing).



Thermoelectric Cooler



Climate control accessories Page 305 Therm software package Page 321

Unit material:

- Aluminum, anodized

Color of cover:

- RAL 7024

Protection category IP to

IEC 60 529:

- External circuit IP 34
- Internal circuit IP 54

Supply includes:

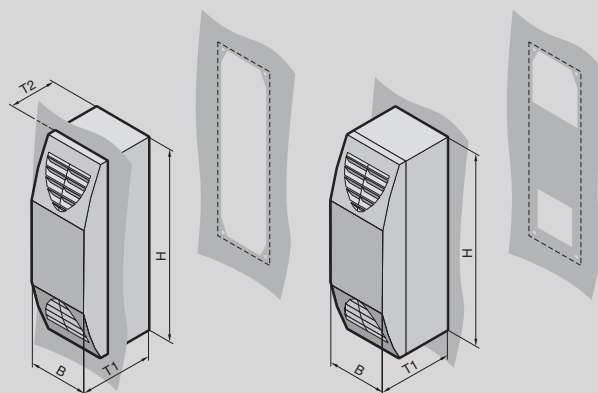
- Thermoelectric climate control unit
- Wired ready for connection (plug-in terminal strip)
- Mounting accessories
- Parameterization software

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet



Total cooling output/heating output 341 BTU (100 W)

Model No.	Packs of	3201.200	3201.300	Page
Rated operating voltage V, ~, Hz		100 - 240, 1~, 50/60	24 (DC)	
Total cooling output L35 L35 BTU (W)		341/341 (100/100)	341 (100)	
Heating output BTU (W)		341 (100)	341 (100)	
Height (H) inches (mm)		16 (400)	16 (400)	
Width (B) inches (mm)		5 (125)	5 (125)	
Depth (T1) inches (mm)		6 (155)	6 (155)	
Installation depth (T2) inches (mm)		4 (100)	4 (100)	
Start-up current A		6.4	4.5	
Rated current max. A		1.9	4.5	
Pre-fuse A		4	10	
Operating temperature range		-22°F...+131°F	-22°F...+140°F	
Refrigeration factor/COP		1	1.2	
Power pack integrated		■	–	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)		29/29 (50/50)	29/29 (50/50)	
Weight lb (kg)		6.6 (3.0)	5.3 (2.4)	
Accessories				
Spare Filter Mats	5 pc(s).	3201.050	3201.050	307
SK BUS System	1 pc(s).	3201.070	3201.070	318
Condensate Hose	1 pc(s).	3301.606	3301.606	313

TopTherm Wall-Mounted Cooling Units, Horizontal Format



Climate control accessories Page 305 Therm software package Page 321

Temperature control:

- Basic controller (factory setting +35°C)

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 54

Supply includes:

- Nano-coated condenser
- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly components

Approvals:

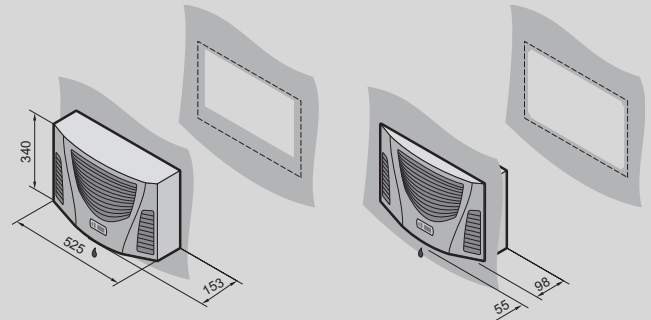
Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet



Power category 1024 BTU (300 W)

Model No.		Packs of	3302.300	3302.310	Page
Material	Carbon steel		■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			1228 (0.36)	–	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			1228/1297 (0.36/0.38)	1297 (0.38)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			717/751 (0.21/0.22)	785 (0.23)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	
Height inches (mm)			13 (340)	13 (340)	
Width inches (mm)			21 (525)	21 (525)	
Depth inches (mm)			6 (153)	6 (153)	
Rated current max. A			1.6/1.7	4	
Start-up current A			4.3/5.3	12	
Pre-fuse A			10	10	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.27/0.29	0.32	
Rated power P _{el} 50/60 Hz L35 L50 kW			0.31/0.33	0.37	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	
Setting range			+86°F...+131°F	+86°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.3	1.18	
Refrigerant oz (g)			R134a, 3.5 (100)	R134a, 3.4 (95)	
Permissible operating pressure (p. max.) psi (bar)			363 (25)	363 (25)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			182/182 (310/310)	177/177 (300/300)	
Weight lb (kg)			28.7 (13.0)	28.7 (13.0)	
Accessories					
Filter Mats		3 pc(s).	3286.110	3286.110	305
Metal Filters		1 pc(s).	3286.120	3286.120	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	550
Condensate Hose		1 pc(s).	3301.610	3301.610	313

TopTherm Wall-Mounted Cooling Units



Climate control accessories Page 305 Therm software package Page 321

Temperature control:

- Basic controller (factory setting +35°C)

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 54

Supply includes:

- Nano-coated condenser
- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly components

Approvals:

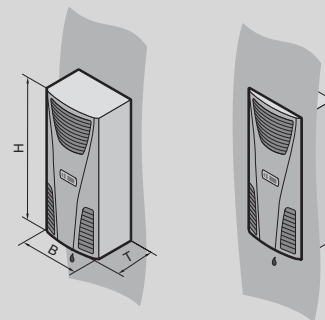
Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet



Power category 1024 BTU (300 W)

Model No.		Packs of	3302.100	3302.110	3302.200	Page
Material	Stainless steel		–	–	■	
	Carbon steel		■	■	–	
Color	RAL 7035		■	■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			1228 (0.36)	–	1228 (0.36)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			1228/1297 (0.36/0.38)	1297 (0.38)	1228/1297 (0.36/0.38)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			717/785 (0.21/0.23)	785 (0.23)	717/785 (0.21/0.23)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	230, 1~, 50/60	
Height (H) inches (mm)			22 (550)	22 (550)	22 (550)	
Width (B) inches (mm)			11 (280)	11 (280)	11 (280)	
Depth (T) inches (mm)			6 (140)	6 (140)	6 (140)	
Rated current max. A			1.6/1.7	3.3	1.6/1.7	
Start-up current A			3/3.4	8	3/3.4	
Pre-fuse A			10	10	10	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.27/0.28	0.32	0.28/0.29	
Rated power P _{el} 50/60 Hz L35 L50 kW			0.28/0.3	0.37	0.29/0.31	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+86°F...+131°F	+86°F...+131°F	+86°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.32	1.18	1.3	
Refrigerant oz (g)			R134a, 3.5 (100)	R134a, 3.5 (100)	R134a, 3.5 (100)	
Permissible operating pressure (p. max.) psi (bar)			363 (25)	363 (25)	363 (25)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			203/182 (345/310)	203/182 (345/310)	203/182 (345/310)	
Weight lb (kg)			28.7 (13.0)	28.7 (13.0)	28.7 (13.0)	
Accessories						
Filter Mats		3 pc(s).	3286.300	3286.300	3286.300	305
Metal Filters		1 pc(s).	3286.310	3286.310	3286.310	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	550
Condensate Hose		1 pc(s).	3301.610	3301.610	3301.610	313

TopTherm Blue e Wall-Mounted Cooling Units



Climate control accessories Page 305 Therm software package Page 321

Temperature control:

- e-Comfort controller (factory setting +35°C)

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 54

Supply includes:

- Nano-coated condenser
- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly components

Approvals:

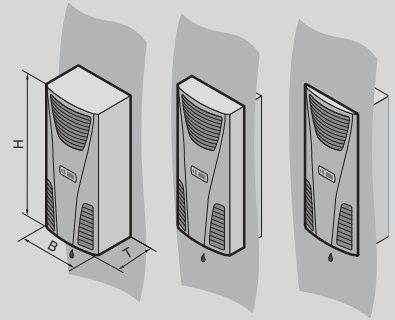
Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet



Power category 1706 BTU (500 W)

Model No.		Packs of	3303.500	3303.510	3303.600	Page
Material	Stainless steel		-	-	■	
	Carbon steel		■	■	-	
Color	RAL 7035		■	■	-	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			1877 (0.55)	-	1877 (0.55)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			1877/2252 (0.55/0.66)	2252 (0.66)	1877/2252 (0.55/0.66)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			1126/1365 (0.33/0.4)	1365 (0.4)	1126/1365 (0.33/0.4)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	230, 1~, 50/60	
Height (H) inches (mm)			22 (550)	22 (550)	22 (550)	
Width (B) inches (mm)			11 (280)	11 (280)	11 (280)	
Depth (T) inches (mm)			8 (210)	8 (210)	8 (210)	
Rated current max. A			2.6/2.6	5.7	2.6/2.6	
Start-up current A			5.1/6.4	11.5	5.1/6.4	
Pre-fuse A			10	10	10	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.39/0.41	0.5	0.39/0.41	
Rated power P _{el} 50/60 Hz L35 L50 kW			0.45/0.42	0.53	0.45/0.42	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.4	1.31	1.4	
Refrigerant oz (g)			R134a, 6.0 (170)	R134a, 6.0 (170)	R134a, 6.0 (170)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			156/185 (265/315)	165/203 (280/345)	156/185 (265/315)	
Weight lb (kg)			37.5 (17.0)	37.5 (17.0)	37.5 (17.0)	
Accessories						
Filter Mats	3 pc(s).		3286.300	3286.300	3286.300	305
Metal Filters	1 pc(s).		3286.310	3286.310	3286.310	306
Door-Operated Switch	1 pc(s).		4127.010	4127.010	4127.010	550
Condensate Hose	1 pc(s).		3301.610	3301.610	3301.610	313

TopTherm Blue e Wall-Mounted Cooling Units

Power category 2559 BTU (750 W)

Model No.		Packs of	3361.500	3361.510	3361.600	Page
Material	Stainless steel		–	–	■	
	Carbon steel		■	■	–	
Color		RAL 7035	■	■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			2900 (0.85)	–	2900 (0.85)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			2900/3037 (0.85/0.89)	3037 (0.89)	2900/3037 (0.85/0.89)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			2286/2286 (0.67/0.67)	2286 (0.67)	2286/2286 (0.67/0.67)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	230, 1~, 50/60	
Height (H) inches (mm)			22 (550)	22 (550)	22 (550)	
Width (B) inches (mm)			11 (280)	11 (280)	11 (280)	
Depth (T) inches (mm)			11 (280)	11 (280)	11 (280)	
Rated current max. A			2.7/2.7	5.3	2.7/2.7	
Start-up current A			6/9.6	12	6/9.6	
Pre-fuse A			10	10	10	
Transformer circuit-breaker A			–	–	–	
Toroidal transformer (external) Ø x D inches (mm)			–	–	–	
Rated power P _{ei} 50/60 Hz L35 L35 kW			0.41/0.44	0.56	0.41/0.44	
Rated power P _{ei} 50/60 Hz L35 L50 kW			0.47/0.5	0.66	0.47/0.5	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Operating temperature (max.) 60 Hz			+50°F...+127°F	+50°F...+126°F	+50°F...+127°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.08	1.59	2.08	
Refrigerant oz (g)			R134a, 9.9 (280)	R134a, 9.2 (260)	R134a, 9.9 (280)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			135/324 (230/550)	135/368 (230/625)	135/324 (230/550)	
Weight lb (kg)			48.5 (22.0)	48.5 (22.0)	48.5 (22.0)	
Accessories						
Filter Mats		3 pc(s).	3286.300	3286.300	3286.300	305
Metal Filters		1 pc(s).	3286.310	3286.310	3286.310	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	550
Condensate Hose		1 pc(s).	3301.610	3301.610	3301.610	313

Accessories



Thermoelectric Cooler

See page 262

TopTherm Blue e Wall-Mounted Cooling Units



Climate control accessories Page 305 Therm software package Page 321

Temperature control:

- e-Comfort controller (factory setting +35°C)

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 54

Supply includes:

- Nano-coated condenser
- Integral electric condensate evaporation
- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly components

Approvals:

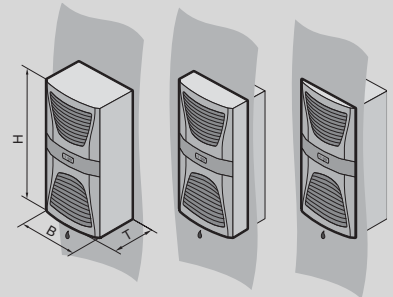
Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet



Power category 3412 BTU (1000 W)

Model No.		Packs of	3304.500	3304.510	Page
Material	Stainless steel		—	—	
	Carbon steel		■	■	
Color	RAL 7035		■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			3753 (1.1)	3753 (1.1)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			3753/4265 (1.1/1.25)	3753/4265 (1.1/1.25)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			3105/3071 (0.91/0.9)	3105/3071 (0.91/0.9)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	
Height (H) inches (mm)			37 (950)	37 (950)	
Width (B) inches (mm)			16 (400)	16 (400)	
Depth (T) inches (mm)			10 (260)	10 (260)	
Rated current max. A			5.4/5	10.6/11.1	
Start-up current A			12/14	26/28	
Pre-fuse A			10	—	
Transformer circuit-breaker A			—	11...16	
Motor circuit-breaker A			—	—	
Rated power P _{ei} 50/60 Hz L35 L35 kW			0.6/0.68	0.6/0.68	
Rated power P _{ei} 50/60 Hz L35 L50 kW			0.71/0.81	0.71/0.81	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.83	1.83	
Refrigerant oz (g)			R134a, 11.4 (325)	R134a, 17.6 (500)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			353/530 (600/900)	353/530 (600/900)	
Weight lb (kg)			86.0 (39.0)	97.0 (44.0)	

Accessories

Filter Mats	3 pc(s).	3286.400	3286.400	305
Metal Filters	1 pc(s).	3286.410	3286.410	306
Door-Operated Switch	1 pc(s).	4127.010	4127.010	550

TopTherm Blue e Wall-Mounted Cooling Units

Power category 3412 BTU (1000 W)

Model No.		Packs of	3304.540	3304.600	3304.640	Page
Material	Stainless steel		–	■	■	
	Carbon steel		■	–	–	
Color	RAL 7035		■	–	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			3753 (1.1)	3753 (1.1)	3753 (1.1)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			3753/4265 (1.1/1.25)	3753/4265 (1.1/1.25)	3753/4265 (1.1/1.25)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			3344/3071 (0.98/0.9)	3105/3071 (0.91/0.9)	3344/3071 (0.98/0.9)	
Rated operating voltage V, ~, Hz			400, 3~, 50 460, 3~, 60	230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Height (H) inches (mm)			37 (950)	37 (950)	37 (950)	
Width (B) inches (mm)			16 (400)	16 (400)	16 (400)	
Depth (T) inches (mm)			10 (260)	10 (260)	10 (260)	
Rated current max. A			2.8/2.9	5.4/5	2.8/2.4	
Start-up current A			11.5/12.7	12/14	11.5/12.7	
Pre-fuse A			–	10	–	
Transformer circuit-breaker A			–	–	–	
Motor circuit-breaker A			6.3...10	–	6.3...10	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.64/0.79	0.6/0.68	0.64/0.79	
Rated power P _{el} 50/60 Hz L35 L50 kW			0.73/0.9	0.71/0.81	0.73/0.9	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.83	1.83	1.83	
Refrigerant oz (g)			R134a, 11.4 (325)	R134a, 11.4 (325)	R134a, 11.4 (325)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			353/530 (600/900)	353/530 (600/900)	353/530 (600/900)	
Weight lb (kg)			88.2 (40.0)	86.0 (39.0)	88.2 (40.0)	
Accessories						
Filter Mats		3 pc(s).	3286.400	3286.400	3286.400	305
Metal Filters		1 pc(s).	3286.410	3286.410	3286.410	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	550

Accessories

Spare Filter Mats

See page 307

TopTherm Blue e Wall-Mounted Cooling Units

Power category 5118 BTU (1500 W)

Model No.		Packs of	3305.500	3305.510	3305.540	3305.600	3305.640	Page
Material	Stainless steel		–	–	–	■	■	
	Carbon steel		■	■	■	–	–	
Color	RAL 7035		■	■	■	–	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			5459 (1.6)	5459 (1.6)	5459 (1.6)	5459 (1.6)	5459 (1.6)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			5459/6005 (1.6/1.76)	5459/6005 (1.6/1.76)	5459/5494 (1.6/1.61)	5459/6005 (1.6/1.76)	5459/5494 (1.6/1.61)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			4265/4675 (1.25/1.37)	4265/4675 (1.25/1.37)	4538/4606 (1.33/1.35)	4265/4675 (1.25/1.37)	4538/4606 (1.33/1.35)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	400, 3~, 50/60, 3~, 60	230, 1~, 50/60	400, 3~, 50/60, 3~, 60	
Height (H) inches (mm)			37 (950)	37 (950)	37 (950)	37 (950)	37 (950)	
Width (B) inches (mm)			16 (400)	16 (400)	16 (400)	16 (400)	16 (400)	
Depth (T) inches (mm)			10 (260)	10 (260)	10 (260)	10 (260)	10 (260)	
Rated current max. A			5.5/5.8	11.5/12.5	2.5/2.8	5.5/5.8	2.5/2.8	
Start-up current A			12/14	26/28	12.2/11.3	12/14	12.2/11.3	
Pre-fuse A			16	–	–	16	–	
Transformer circuit-breaker A			–	14...20	–	–	–	
Motor circuit-breaker A			–	–	6.3...10	–	6.3...10	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.87/0.98	0.87/0.98	0.9/1.08	0.87/0.98	0.9/1.08	
Rated power P _{el} 50/60 Hz L35 L50 kW			1.03/1.15	1.03/1.15	1.06/1.25	1.03/1.15	1.06/1.25	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.83	1.83	1.83	1.83	1.83	
Refrigerant oz (g)			R134a, 17.6 (500)	R134a, 17.6 (500)	R134a, 17.6 (500)	R134a, 17.6 (500)	R134a, 17.6 (500)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			353/530 (600/900)	353/530 (600/900)	353/530 (600/900)	353/530 (600/900)	353/530 (600/900)	
Weight lb (kg)			90.4 (41.0)	101.4 (46.0)	92.6 (42.0)	90.4 (41.0)	92.6 (42.0)	
Accessories								
Filter Mats		3 pc(s).	3286.400	3286.400	3286.400	3286.400	3286.400	305
Metal Filters		1 pc(s).	3286.410	3286.410	3286.410	3286.410	3286.410	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	550

Accessories

Therm Software

See page 321

TopTherm Blue e Wall-Mounted Cooling Units



Climate control accessories Page 305 Therm software package Page 321

Temperature control:

- e-Comfort controller (factory setting +35°C)

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 54

Supply includes:

- Nano-coated condenser
- Integral electric condensate evaporation
- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly components

Note:

- Full installation not supported with SK 3332.XXX

Approvals:

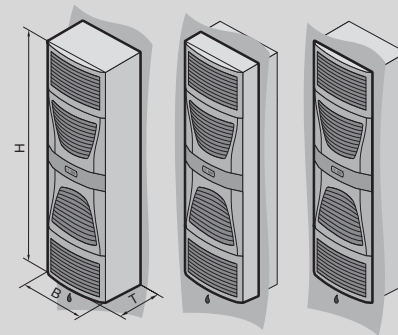
Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet



Power category 6824 BTU (2000 W)

Model No.		Packs of	3328.500	3328.510	Page
Material	Stainless steel		—	—	
	Carbon steel		■	■	
Color	RAL 7035		■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			7507 (2.2)	7507 (2.2)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			7507/8735 (2.2/2.56)	7507/8735 (2.2/2.56)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			6210/6654 (1.82/1.95)	6210/6654 (1.82/1.95)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	
Height (H) inches (mm)			62 (1580)	62 (1580)	
Width (B) inches (mm)			16 (400)	16 (400)	
Depth (T) inches (mm)			12 (295)	12 (295)	
Rated current max. A			6.1/6.6	13.4/14.8	
Start-up current A			20/22	40/38	
Pre-fuse A			16	—	
Transformer circuit-breaker A			—	18...25	
Motor circuit-breaker A			—	—	
Rated power P _a 50/60 Hz L35 L35 kW			0.92/1.03	0.92/1.03	
Rated power P _a 50/60 Hz L35 L50 kW			1.06/1.23	1.06/1.23	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.4	2.4	
Refrigerant oz (g)			R134a, 33.5 (950)	R134a, 33.5 (950)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			577/577 (980/980)	577/577 (980/980)	
Weight lb (kg)			145.5 (66.0)	160.9 (73.0)	
Accessories					
Filter Mats		3 pc(s).	3286.400	3286.400	305
Metal Filters		1 pc(s).	3286.410	3286.410	306

TopTherm Blue e Wall-Mounted Cooling Units

Power category 6824 BTU (2000 W)

Model No.		Packs of	3328.540	3328.600	3328.640	Page
Material	Stainless steel		–	■	■	
	Carbon steel		■	–	–	
Color	RAL 7035		■	–	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			7507 (2.2)	7507 (2.2)	7507 (2.2)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			7507/8701 (2.2/2.55)	7507/8735 (2.2/2.56)	7507/8701 (2.2/2.55)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			5630/6449 (1.65/1.89)	6210/6654 (1.82/1.95)	5630/6449 (1.65/1.89)	
Rated operating voltage V, ~, Hz			400, 3~, 50 460, 3~, 60	230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Height (H) inches (mm)			62 (1580)	62 (1580)	62 (1580)	
Width (B) inches (mm)			16 (400)	16 (400)	16 (400)	
Depth (T) inches (mm)			12 (295)	12 (295)	12 (295)	
Rated current max. A			2.8/3.3	6.1/6.6	2.8/3.3	
Start-up current A			6.8/7.8	20/22	6.8/7.8	
Pre-fuse A			–	16	–	
Transformer circuit-breaker A			–	–	–	
Motor circuit-breaker A			6.3...10	–	6.3...10	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.92/1.15	0.92/1.03	0.93/1.15	
Rated power P _{el} 50/60 Hz L35 L50 kW			1.15/1.4	1.06/1.23	1.15/1.4	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.22	2.4	2.22	
Refrigerant oz (g)			R134a, 33.5 (950)	R134a, 33.5 (950)	R134a, 33.5 (950)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			530/530 (900/900)	577/577 (980/980)	530/530 (900/900)	
Weight lb (kg)			147.7 (67.0)	145.5 (66.0)	147.7 (67.0)	
Accessories						
Filter Mats		3 pc(s).	3286.400	3286.400	3286.400	305
Metal Filters		1 pc(s).	3286.410	3286.410	3286.410	306

Power category 8530 BTU (2500 W)

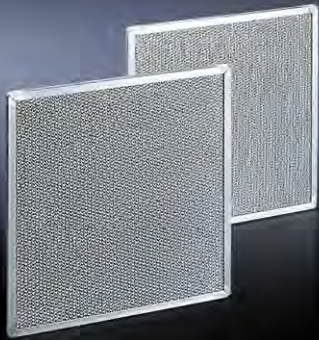
Model No.		Packs of	3329.500	3329.510	3329.540	3329.600	3329.640	Page
Material	Stainless steel		–	–	–	■	■	
	Carbon steel		■	■	■	–	–	
Color	RAL 7035		■	■	■	–	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			8701 (2.55)	8701 (2.55)	8701 (2.55)	8701 (2.55)	8701 (2.55)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			8701/9247 (2.55/2.71)	8701/9247 (2.55/2.71)	8701/9383 (2.55/2.75)	8701/9247 (2.55/2.71)	8701/9383 (2.55/2.75)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			6449/6722 (1.89/1.97)	6449/6722 (1.89/1.97)	6654/6824 (1.95/2)	6449/6722 (1.89/1.97)	6654/6824 (1.95/2)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	400, 3~, 50 460, 3~, 60	230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Height (H) inches (mm)			62 (1580)	62 (1580)	62 (1580)	62 (1580)	62 (1580)	
Width (B) inches (mm)			16 (400)	16 (400)	16 (400)	16 (400)	16 (400)	
Depth (T) inches (mm)			12 (295)	12 (295)	12 (295)	12 (295)	12 (295)	
Rated current max. A			8.2/9.3	17/22	3.7/3.8	8.2/9.3	3.7/3.8	
Start-up current A			20/24	44/42	6.8/7.6	20/24	6.8/7.6	
Pre-fuse A			16	–	–	16	–	
Transformer circuit-breaker A			–	18...25	–	–	–	
Motor circuit-breaker A			–	–	6.3...10	–	6.3...10	
Rated power P _{el} 50/60 Hz L35 L35 kW			1.21/1.35	1.21/1.35	1.2/1.4	1.21/1.35	1.2/1.4	
Rated power P _{el} 50/60 Hz L35 L50 kW			1.41/1.64	1.41/1.64	1.45/1.75	1.41/1.64	1.45/1.75	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.11	2.11	2.11	2.11	2.11	
Refrigerant oz (g)			R134a, 33.5 (950)	R134a, 33.5 (950)	R134a, 33.5 (950)	R134a, 33.5 (950)	R134a, 33.5 (950)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			724/724 (1230/1230)	724/724 (1230/1230)	706/706 (1200/1200)	724/724 (1230/1230)	706/706 (1200/1200)	
Weight lb (kg)			152.1 (69.0)	167.6 (76.0)	154.3 (70.0)	152.1 (69.0)	154.3 (70.0)	
Accessories								
Filter Mats		3 pc(s).	3286.400	3286.400	3286.400	3286.400	3286.400	305
Metal Filters		1 pc(s).	3286.410	3286.410	3286.410	3286.410	3286.410	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	550

TopTherm Blue e Wall-Mounted Cooling Units

Power category 13649 BTU (4000 W)

Model No.		Packs of	3332.540	3332.640	Page
Material	Stainless steel		–	■	
	Carbon steel		■	–	
Color	RAL 7035		■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			13478 (3.95)	13478 (3.95)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			13478/14843 (3.95/4.35)	13478/14843 (3.95/4.35)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			10305/12011 (3.02/3.52)	10305/12011 (3.02/3.52)	
Rated operating voltage V, ~, Hz			400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Height (H) inches (mm)			62 (1580)	62 (1580)	
Width (B) inches (mm)			20 (500)	20 (500)	
Depth (T) inches (mm)			13 (340)	13 (340)	
Rated current max. A			4.2/4.2	4.2/4.2	
Start-up current A			9.2/11	9.2/11	
Pre-fuse			–	–	
Transformer circuit-breaker			–	–	
Motor circuit-breaker A			6.3...10	6.3...10	
Rated power P _{el} 50/60 Hz L35 L35 kW			1.6/2	1.6/2	
Rated power P _{el} 50/60 Hz L35 L50 kW			1.87/2.34	1.87/2.34	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.47	2.47	
Refrigerant oz (g)			R134a, 105.6 (2995)	R134a, 105.6 (2995)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			883/1177 (1500/2000)	883/1177 (1500/2000)	
Weight lb (kg)			200.6 (91.0)	200.6 (91.0)	
Accessories					
Filter Mats		3 pc(s).	3286.400	3286.400	305
Metal Filters		1 pc(s).	3286.410	3286.410	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	550

Accessories



Metal Filters

See page 306

TopTherm Blue e Wall-Mounted Cooling Units, Slimline



Climate control accessories Page 305 Therm software package Page 321

Temperature control:

- e-Comfort controller (factory setting +35°C)

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 54

Supply includes:

- Nano-coated condenser
- Integral electric condensate evaporation
- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly components

Approvals:

Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet

Power category 5118 BTU (1500 W)

Model No.		Packs of	3366.500	3366.540	Page
Material	Carbon steel		■	■	
Color	RAL 7035		■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			5459 (1.6)	5459 (1.6)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			5459/5459 (1.6/1.6)	5459/5459 (1.6/1.6)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			3924/4095 (1.15/1.2)	3685/4026 (1.08/1.18)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Height inches (mm)			63 (1590)	63 (1590)	
Width inches (mm)			17 (435)	17 (435)	
Depth inches (mm)			8 (205)	8 (205)	
Rated current max. A			6.7/6.9	2.7/2.9	
Start-up current A			22/24	8/8.8	
Pre-fuse A			10	–	
Motor circuit-breaker A			–	6.3...10	
Rated power P _a 50/60 Hz L35 L35 kW			0.84/0.97	0.91/1.06	
Rated power P _a 50/60 Hz L35 L50 kW			1.02/1.13	1.08/1.25	
Operating temperature range			+50°F...+131°F	+50°F...+131	
Setting range			+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.9	1.9	
Refrigerant oz (g)			R134a, 24.7 (700)	R134a, 24.7 (700)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			506/536 (860/910)	506/536 (860/910)	
Weight lb (kg)			99.2 (45.0)	101.4 (46.0)	
Accessories					
Filter Mats	3 pc(s).		3286.400	3286.400	305
Metal Filters	1 pc(s).		3286.410	3286.410	306
Door-Operated Switch	1 pc(s).		4127.010	4127.010	550

TopTherm Blue e Wall-Mounted Cooling Units, UL Type 3R



Climate control accessories Page 305 Therm software package Page 321

Temperature control:

- Basic controller or e-Comfort controller (factory setting +35°C)

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 55

Supply includes:

- Nano-coated condenser
- Permanent connection via terminal box & connector
- Drilling template
- Assembly components

Approvals:

UL Listed

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet

Power category 1024 – 1706 BTU (300 – 500 W)

Model No.		Packs of	3302.403	3302.413	3303.503	3303.513	Page
Material	Carbon steel		■	■	■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			1025 (0.33)	1025 (0.30)	1443 (0.42)	1443 (0.42)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			1025/1093 (0.33/0.37)	1025 (0.30)	1443/1778 (0.42/0.52)	1443 (0.42)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			512/581 (0.15/0.17)	512 (0.15)	957/1082 (0.28/0.32)	957 (0.28)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	230, 1~, 50/60	115, 1~, 60	
Height inches (mm)			22 (550)	22 (550)	22 (550)	22 (550)	
Width inches (mm)			11 (280)	11 (280)	11 (280)	11 (280)	
Depth inches (mm)			8.3 (212)	8.3 (212)	11 (278)	11 (278)	
Rated current max. A			1.6/1.7	3.3	2.6/2.6	5.7	
Start-up current A			3.0/3.4	8.0	5.1/6.4	11.5	
Pre-fuse A			10	10	10	10	
Motor circuit-breaker A			–	–	–	–	
Rated power P _a 50/60 Hz L35 L35 kW			0.30/0.31	0.34	0.43/0.45	0.55	
Rated power P _a 50/60 Hz L35 L50 kW			0.34/0.34	0.41	0.50/0.56	0.67	
Operating temperature range			+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	
Temperature control	Basic controller		■	■	–	–	
	e-Comfort controller		–	–	■	■	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.1	1.1	1.0	1.0	
Refrigerant oz (g)			R134a, 3.5 (100)	R134a, 3.5 (100)	R134a, 6.0 (170)	R134a, 6.0 (170)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			182/203 (310/345)	182/203 (310/345)	203/182 (345/310)	203/182 (345/310)	
Weight lb (kg)			28.5 (13)	28.5 (13)	42 (19)	42 (19)	

Accessories

Condensate Hose	1 pc(s).	3301.610	3301.610	3301.610	3301.610	313
Door-Operated Switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	550
Metal Filters	1 pc(s).	3286.310	3286.310	3286.310	3286.310	306
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	–	–	315
Master/Slave Cable for SK-BUS System	1 pc(s).	–	–	3124.100	3124.100	318
Interface Board for Units with e-Comfort Controller	1 pc(s).	–	–	3124.200	3124.200	317

TopTherm Blue e Wall-Mounted Cooling Units, UL Type 3R



Climate control accessories Page 305 Therm software package Page 321

Temperature control:

- e-Comfort controller (factory setting +35°C)

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 55

Supply includes:

- Nano-coated condenser
- Permanent connection via terminal box & connector
- Drilling template
- Assembly components

Approvals:

UL Listed

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet

Power category 3412 – 5118 BTU (1000 – 1500 W)

Model No.		Packs of	3304.503	3304.513	3305.503	3305.513	Page
Material	Carbon steel		■	■	■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			3415 (1.00)	3415 (1.00)	4170 (1.22)	4170 (1.22)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			3415/3620 (1.00/1.06)	3415/3620 (1.00/1.06)	4170/4204 (1.22/1.23)	4170/4204 (1.22/1.23)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			2698/2869 (0.79/0.84)	2698/2869 (0.79/0.84)	2638/2873 (0.77/0.84)	2638/2873 (0.77/0.84)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	230, 1~, 50/60	115, 1~, 60	
Height inches (mm)			37 (950)	37 (950)	37 (950)	37 (950)	
Width inches (mm)			16 (400)	16 (400)	16 (400)	16 (400)	
Depth inches (mm)			13 (324)	13 (324)	13 (324)	13 (324)	
Rated current max. A			4.8/4.4	9.5/10.0	5.4/6.0	11.0/12.5	
Start-up current A			12/14	26/28	22/24	42/46	
Pre-fuse A			10	16	16	20	
Motor circuit-breaker A			–	–	–	–	
Rated power P _a 50/60 Hz L35 L35 kW			0.69/0.80	0.72/0.83	1.00/1.08	1.03/1.13	
Rated power P _a 50/60 Hz L35 L50 kW			0.81/0.93	0.84/0.97	1.12/1.21	1.16/1.25	
Operating temperature range			+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	
Temperature control	Basic controller		–	–	–	–	
	e-Comfort controller		■	■	■	■	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.4	1.4	1.2	1.2	
Refrigerant oz (g)			R134a, 11.5 (325)	R134a, 11.5 (325)	R134a, 17.6 (500)	R134a, 17.6 (500)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			353/530 (600/900)	353/530 (600/900)	353/530 (600/900)	353/530 (600/900)	
Weight lb (kg)			86 (39)	97 (44)	90 (41)	101 (46)	

Accessories

Air Diverter	1 pc(s).	3213.310	3213.310	3213.310	3213.310	312
Condensate Hose	1 pc(s).	3301.610	3301.610	3301.610	3301.610	313
Door-Operated Switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	550
Metal Filters	1 pc(s).	3286.310	3286.310	3286.310	3286.310	306
Master/Slave Cable for SK-BUS System	1 pc(s).	–	–	3124.100	3124.100	318
Interface Board for Units with e-Comfort Controller	1 pc(s).	–	–	3124.200	3124.200	317

TopTherm Blue e Wall-Mounted Cooling Units, UL Type 3R



Climate control accessories Page 305 Therm software package Page 321

Temperature control:

- e-Comfort controller (factory setting +35°C)

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 55

Supply includes:

- Nano-coated condenser
- Permanent connection via terminal box & connector
- Drilling template
- Assembly components

Approvals:

UL Listed

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet

Power category 6824 – 7506 BTU (2000 – 2200 W)

Model No.		Packs of	3328.503	3328.513	3329.503	3329.513	Page
Material	Carbon steel		■	■	■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			6125 (1.80)	6125 (1.80)	7725 (2.3)	7725 (2.3)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			6125/6480 (1.80/1.90)	6125/6480 (1.80/1.90)	7724/8076 (2.26/2.36)	7724/8076 (2.26/2.36)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			4490/4808 (1.32/1.41)	4490/4808 (1.32/1.41)	5281/5627 (1.54/1.64)	5281/5627 (1.54/1.64)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	
Height inches (mm)			62 (1580)	62 (1580)	62 (1580)	62 (1580)	
Width inches (mm)			16 (400)	16 (400)	16 (400)	16 (400)	
Depth inches (mm)			14 (359)	14 (359)	12 (295)	12 (295)	
Rated current max. A			7.5/9.1	14.7/17.3	8.6/10.6	17/22	
Start-up current A			22/26	36/39	21/21	44/42	
Pre-fuse A			16	25	16	25	
Motor circuit-breaker A			–	–	–	6.3...10	
Rated power P _a 50/60 Hz L35 L35 kW			0.99/1.09	1.05/1.14	1.31/1.49	1.36/1.54	
Rated power P _a 50/60 Hz L35 L50 kW			1.15/1.29	1.20/1.35	1.54/1.76	1.59/1.83	
Operating temperature range			+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	
Temperature control	Basic controller		–	–	–	–	
	e-Comfort controller		■	■	■	■	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.6	1.6	1.6	1.6	
Refrigerant oz (g)			R134a, 31.7 (900)	R134a, 31.7 (900)	R134a, 31.7 (900)	R134a, 31.7 (900)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			324/377 (550/640)	324/377 (550/640)	377/418 (640/710)	377/418 (640/710)	
Weight lb (kg)			145 (66)	161 (73)	152.1 (69.0)	167.6 (76.0)	
Accessories							
Air Diverter		1 pc(s).	3213.310	3213.310	3213.310	3213.310	312
Condensate Hose		1 pc(s).	3301.610	3301.610	3301.610	3301.610	313
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	550
Metal Filters		1 pc(s).	3286.310	3286.310	3286.310	3286.310	306
Master/Slave Cable for SK-BUS System		1 pc(s).	–	–	3124.100	3124.100	318
Interface Board for Units with e-Comfort Controller		1 pc(s).	–	–	3124.200	3124.200	317

TopTherm Blue e Wall-Mounted Cooling Units, NEMA 4X



Climate control accessories Page 305 Therm software package Page 321

Temperature control:

- e-Comfort controller (factory setting +35°C)

Protection category NEMA:

- NEMA 4X

Supply includes:

- Nano-coated condenser
- Integral electric condensate evaporation
- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly components

Note:

- 3303.XXX without integrated condensate evaporation

Approvals:

Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet

Power category 1706 – 3753 BTU (500 – 1100 W)

Model No.	Packs of	3303.504	3303.514	3304.504	3304.514	3304.544	Page
Material	Stainless steel	■	■	■	■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)		1877 (0.55)	–	3753 (1.1)	3753 (1.1)	3753 (1.1)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)		1877/2252 (0.55/0.66)	2252 (0.66)	3753/4265 (1.1/1.25)	3753/4265 (1.1/1.25)	3753/4265 (1.1/1.25)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)		1126/1365 (0.33/0.4)	1365 (0.4)	3105/3071 (0.91/0.9)	3105/3071 (0.91/0.9)	3344/3105 (0.98/0.91)	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 60	230, 1~, 50/60	115, 1~, 60	400, 3~, 50 460, 3~, 60	
Height inches (mm)		24 (620)	24 (620)	40 (1020)	40 (1020)	40 (1020)	
Width inches (mm)		11 (285)	11 (285)	16 (405)	16 (405)	16 (405)	
Depth inches (mm)		12 (298)	12 (298)	14 (358)	14 (358)	14 (358)	
Rated current max. A		2.6/2.6	5.7	3.9/4.3	10.6/11.1	2.2/2.1	
Start-up current A		5.1/6.4	11.5	12/14	26/28	11.5/12.7	
Pre-fuse A		10	10	10	16	–	
Motor circuit-breaker A		–	–	–	–	6.3...10	
Rated power P _{el} 50/60 Hz L35 L35 kW		0.36/0.38	0.47	0.6/0.68	0.6/0.68	0.64/0.82	
Rated power P _{el} 50/60 Hz L35 L50 kW		0.42/0.39	0.5	0.71/0.81	0.71/0.81	0.73/0.93	
Operating temperature range		+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	
Setting range		+68°F...+122°F	+68°F...+122°F	+68°F...+122°F	+68°F...+122°F	+68°F...+122°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511		1.4	1.31	1.83	1.83	1.83	
Refrigerant oz (g)		R134a, 6.0 (170)	R134a, 6.0 (170)	R134a, 11.4 (325)	R134a, 11.4 (325)	R134a, 11.4 (325)	
Permissible operating pressure (p. max.) psi (bar)		406 (28)	406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)		156/185 (265/315)	165/203 (280/345)	353/530 (600/900)	353/530 (600/900)	353/530 (600/900)	
Weight lb (kg)		55.1 (25.0)	55.1 (25.0)	108.0 (49.0)	119.0 (54)	110.2 (50.0)	
Accessories							
Door-Operated Switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	550

TopTherm Blue e Wall-Mounted Cooling Units, NEMA 4X

Power category 5118 BTU (1500 W)

Model No.		Packs of	3305.504	3305.514	3305.544	Page
Material	Stainless steel		■	■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			5459 (1.6)	5459 (1.6)	5459 (1.6)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			5459/6005 (1.6/1.76)	5459/6005 (1.6/1.76)	5459/5494 (1.6/1.61)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			4265/4675 (1.25/1.37)	4265/4675 (1.25/1.37)	4538/4606 (1.33/1.35)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	400, 3~, 50 460, 3~, 60	
Height inches (mm)			40 (1020)	40 (1020)	40 (1020)	
Width inches (mm)			16 (405)	16 (405)	16 (405)	
Depth inches (mm)			14 (358)	14 (358)	14 (358)	
Rated current max. A			5.5/5.8	12.1/13.6	2.6/2.8	
Start-up current A			12/14	42.0/46.0	12.2/11.3	
Pre-fuse A			16	20	–	
Motor circuit-breaker A			–	–	6.3...10	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.79/0.98	0.79/0.98	0.9/1.08	
Rated power P _{el} 50/60 Hz L35 L50 kW			0.9/1.15	0.9/1.15	1.06/1.25	
Operating temperature range			+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	
Setting range			+68°F...+122°F	+68°F...+122°F	+68°F...+122°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.83	1.83	1.83	
Refrigerant oz (g)			R134a, 21.2 (600)	R134a, 21.2 (600)	R134a, 21.2 (600)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			471/530 (800/900)	471/530 (800/900)	471/530 (800/900)	
Weight lb (kg)			112.4 (51.0)	123.5 (56.0)	114.6 (52.0)	
Accessories						
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	550

Power category 6824 – 8530 BTU (2000 – 2500 W)

Model No.		Packs of	3328.504	3328.514	3328.544	3329.504	3329.514	3329.544	Page
Material	Stainless steel		■	■	■	■	■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			7507 (2.2)	7507 (2.2)	7507 (2.2)	8701 (2.55)	8701 (2.55)	8701 (2.55)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			7507/8053 (2.2/2.36)	7507/8053 (2.2/2.36)	7507/8019 (2.2/2.35)	8701/9076 (2.55/2.66)	8701/9076 (2.55/2.66)	8701/9213 (2.55/2.7)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			5528/5971 (1.62/1.75)	5528/5971 (1.62/1.75)	4948/5767 (1.45/1.69)	6278/6551 (1.84/1.92)	6278/6551 (1.84/1.92)	6483/6654 (1.9/1.95)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	400, 3~, 50 460, 3~, 60	230, 1~, 50/60	115, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Height inches (mm)			65 (1650)	65 (1650)	65 (1650)	65 (1650)	65 (1650)	65 (1650)	
Width inches (mm)			16 (405)	16 (405)	16 (405)	16 (405)	16 (405)	16 (405)	
Depth inches (mm)			15 (388)	15 (388)	15 (388)	15 (388)	15 (388)	15 (388)	
Rated current max. A			6.1/6.6	14.7/17.3	2.8/3.3	8.2/9.3	17.0/22.0	3.7/3.8	
Start-up current A			20/22	36/39	6.8/7.8	20/24	44/42	6.8/7.6	
Pre-fuse A			16	25	–	16	25	–	
Motor circuit-breaker A			–	–	6.3...10	–	–	6.3...10	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.92/1.06	0.92/1.06	0.92/1.15	1.21/1.35	1.21/1.35	1.2/1.4	
Rated power P _{el} 50/60 Hz L35 L50 kW			1.06/1.25	1.06/1.25	1.15/1.4	1.41/1.64	1.41/1.64	1.44/1.75	
Operating temperature range			+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	+50°F...+122°F	
Setting range			+68°F...+122°F	+68°F...+122°F	+68°F...+122°F	+68°F...+122°F	+68°F...+122°F	+68°F...+122°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.4	2.4	2.4	2.11	2.11	2.11	
Refrigerant oz (g)			R134a, 31.7 (900)	R134a, 31.7 (900)	R134a, 31.7 (900)	R134a, 31.7 (900)	R134a, 31.7 (900)	R134a, 31.7 (900)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			577/577 (980/980)	577/577 (980/980)	530/530 (900/900)	724/724 (1230/1230)	724/724 (1230/1230)	706/706 (1200/1200)	
Weight lb (kg)			176.4 (80.0)	191.8 (87.0)	178.6 (81.0)	198.4 (90.0)	183.0 (83.0)	185.2 (84.0)	
Accessories									
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	4127.010	550

TopTherm Blue e Roof-Mounted Cooling Units



Climate control accessories Page 305 **Therm software package** Page 321 **Roof plates TS with mounting cut-out** Page 319

Temperature control:

- e-Comfort controller (factory setting +35°C)

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 54

Supply includes:

- Nano-coated condenser
- Integral electric condensate evaporation
- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly components

Note:

- Due to their low noise level, the roof-mounted cooling units 3273.500 and 3273.515 are also suitable for use in office applications

Approvals:

Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet

Power category 1706 BTU (500 W)

Model No.		Packs of	3382.500	3382.510	3382.600	Page
Material	Stainless steel		–	–	■	
	Carbon steel		■	■	–	
Color	RAL 7035		■	■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			1877 (0.55)	1877 (0.55)	1877 (0.55)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			1877/2116 (0.55/0.62)	1877/2116 (0.55/0.62)	1877/2116 (0.55/0.62)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			1433/1638 (0.42/0.48)	1433/1638 (0.42/0.48)	1433/1638 (0.42/0.48)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	
Height inches (mm)			16 (417)	16 (417)	16 (417)	
Width inches (mm)			24 (597)	24 (597)	24 (597)	
Depth inches (mm)			15 (380)	15 (380)	15 (380)	
Rated current max. A			2.3/2.6	4.7/5.4	2.3/2.6	
Start-up current A			9.1/8.8	18.2/15.9	9.1/8.8	
Pre-fuse A			10	–	10	
Transformer circuit-breaker A			–	6.3...10	–	
Motor circuit-breaker			–	–	–	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.27/0.31	0.27/0.32	0.27/0.32	
Rated power P _{el} 50/60 Hz L35 L50 kW			0.31/0.37	0.31/0.37	0.31/0.37	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.04	2.04	2.04	
Refrigerant oz (g)			R134a, 10.6 (300)	R134a, 10.6 (300)	R134a, 10.6 (300)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			100/471 (170/800)	100/471 (170/800)	100/471 (170/800)	
Weight lb (kg)			66.1 (30.0)	77.2 (35.0)	66.1 (30.0)	
Accessories						
Filter Mats		3 pc(s).	3286.500	3286.500	3286.500	305
Metal Filters		1 pc(s).	3286.510	3286.510	3286.510	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	550
Air Duct System		1 pc(s).	3286.870	3286.870	3286.870	310
Stoppers		2 pc(s).	3286.780	3286.780	3286.780	312

TopTherm Blue e Roof-Mounted Cooling Units

Power category 2559 BTU (750 W)

Model No.		Packs of	3359.500	3359.510	3359.600	Page
Material	Stainless steel		–	–	■	
	Carbon steel		■	■	–	
Color	RAL 7035		■	■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			2627 (0.77)	2627 (0.77)	2627 (0.77)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			2627/2696 (0.77/0.79)	2627/2696 (0.77/0.79)	2627/2696 (0.77/0.79)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			1774/1604 (0.52/0.47)	1774/1604 (0.52/0.47)	1774/1604 (0.52/0.47)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	
Height inches (mm)			16 (417)	16 (417)	16 (417)	
Width inches (mm)			24 (597)	24 (597)	24 (597)	
Depth inches (mm)			15 (380)	15 (380)	15 (380)	
Rated current max. A			2.8/3.7	5.6/7.4	2.8/3.7	
Start-up current A			9.2/9	18.4/18	9.2/9	
Pre-fuse A			10	–	10	
Transformer circuit-breaker A			–	11...16	–	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.33/0.43	0.33/0.43	0.33/0.43	
Rated power P _{el} 50/60 Hz L35 L50 kW			0.49/0.42	0.49/0.42	0.49/0.42	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.28	2.28	2.28	
Refrigerant oz (g)			R134a, 14.1 (400)	R134a, 14.1 (400)	R134a, 14.1 (400)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			344/471 (585/800)	259/536 (440/910)	344/471 (585/800)	
Weight lb (kg)			70.5 (32.0)	81.6 (37.0)	70.5 (32.0)	
Accessories						
Filter Mats		3 pc(s).	3286.500	3286.500	3286.500	305
Metal Filters		1 pc(s).	3286.510	3286.510	3286.510	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	550
Air Duct System		1 pc(s).	3286.870	3286.870	3286.870	310
Stoppers		2 pc(s).	3286.780	3286.780	3286.780	312

Power category 3412 BTU (1000 W)

Model No.		Packs of	3383.500	3383.510	3383.540	3383.600	Page
Material	Stainless steel		–	–	–	■	
	Carbon steel		■	■	■	–	
Color	RAL 7035		■	■	■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			3412 (1)	3412 (1)	3412 (1)	3412 (1)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			3412/3719 (1/1.09)	3412/3719 (1/1.09)	3412/3719 (1/1.09)	3412/3719 (1/1.09)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			2423/2764 (0.71/0.81)	2423/2764 (0.71/0.81)	2423/2764 (0.71/0.81)	2423/2764 (0.71/0.81)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	400, 2~, 50/60	230, 1~, 50/60	
Height inches (mm)			16 (417)	16 (417)	16 (417)	16 (417)	
Width inches (mm)			24 (597)	24 (597)	24 (597)	24 (597)	
Depth inches (mm)			19 (475)	19 (475)	19 (475)	19 (475)	
Rated current max. A			2.9/3.9	6.2/8.4	1.7/2.2	2.9/3.9	
Start-up current A			8.8/10	14.4/15.8	4.6/5.7	8.8/10.1	
Pre-fuse A			10	–	–	10	
Transformer circuit-breaker A			–	11...16	6.3...10	–	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.39/0.48	0.39/0.45	0.39/0.45	0.39/0.46	
Rated power P _{el} 50/60 Hz L35 L50 kW			0.45/0.57	0.43/0.54	0.42/0.54	0.43/0.55	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.58	2.58	2.58	2.58	
Refrigerant oz (g)			R134a, 22.9 (650)	R134a, 22.9 (650)	R134a, 22.9 (650)	R134a, 22.9 (650)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			289/942 (491/1600)	289/942 (491/1600)	289/942 (491/1600)	289/942 (491/1600)	
Weight lb (kg)			88.2 (40.0)	101.4 (46.0)	101.4 (46.0)	88.2 (40.0)	
Accessories							
Filter Mats		3 pc(s).	3286.500	3286.500	3286.500	3286.500	305
Metal Filters		1 pc(s).	3286.510	3286.510	3286.510	3286.510	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	550
Air Duct System		1 pc(s).	3286.870	3286.870	3286.870	3286.870	310
Stoppers		2 pc(s).	3286.880	3286.880	3286.880	3286.880	312

TopTherm Blue e Roof-Mounted Cooling Units

Power category 3753 – 5118 BTU (1100 – 1500 W)

Model No.		Packs of	3273.500	3273.515	3384.500	3384.510	3384.540	3384.600	Page
Material	Stainless steel		–	–	–	–	–	■	
	Carbon steel		■	■	■	■	■	–	
Color	RAL 7035		■	■	■	■	■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			3753 (1.1)	3753 (1.1)	5118 (1.5)	5118 (1.5)	5118 (1.5)	5118 (1.5)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			3753/4095 (1.1/1.2)	3753/4095 (1.1/1.2)	5118/5630 (1.5/1.65)	5118/5630 (1.5/1.65)	5118/5630 (1.5/1.65)	5118/5630 (1.5/1.65)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			2900/2969 (0.85/0.87)	2900/2969 (0.85/0.87)	3924/4436 (1.15/1.3)	3924/4436 (1.15/1.3)	3924/4436 (1.15/1.3)	3924/4436 (1.15/1.3)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	110 (DC), 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	400, 2~, 50/60	230, 1~, 50/60	
Height inches (mm)			16 (417)	16 (417)	16 (417)	16 (417)	16 (417)	16 (417)	
Width inches (mm)			24 (597)	24 (597)	24 (597)	24 (597)	24 (597)	24 (597)	
Depth inches (mm)			19 (475)	19 (475)	19 (475)	19 (475)	19 (475)	19 (475)	
Rated current max. A			5.2/5.4	11/11.5	3.9/4.8	8.5/15.3	2.4/2.8	3.9/4.8	
Start-up current A			15.5/16.5	32/35	14.8/16	27.4/27.2	8.7/9	14.8/16	
Pre-fuse A			10	–	10	–	–	10	
Transformer circuit-breaker A			–	11...16	–	14...20	6.3...10	–	
Rated power P _{el} 50/60 Hz L35 L35 kW			0.52/0.54	0.52/0.54	0.67/0.77	0.67/0.76	0.67/0.76	0.67/0.77	
Rated power P _{el} 50/60 Hz L35 L50 kW			0.59/0.73	0.59/0.74	0.79/0.91	0.8/0.93	0.79/0.93	0.79/0.91	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.16	2.16	2.24	2.24	2.24	2.24	
Refrigerant oz (g)			R134a, 24.7 (700)	R134a, 24.7 (700)	R134a, 24.7 (700)	R134a, 24.7 (700)	R134a, 24.7 (700)	R134a, 24.7 (700)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			259/1036 (440/1760)	259/1036 (440/1760)	289/942 (491/1600)	289/942 (491/1600)	289/942 (491/1600)	289/942 (491/1600)	
Weight lb (kg)			92.6 (42.0)	103.6 (47.0)	90.4 (41.0)	103.6 (47.0)	103.6 (47.0)	90.4 (41.0)	
Accessories									
Filter Mats		3 pc(s).	3286.500	3286.500	3286.500	3286.500	3286.500	3286.500	305
Metal Filters		1 pc(s).	3286.510	3286.510	3286.510	3286.510	3286.510	3286.510	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	4127.010	550
Air Duct System		1 pc(s).	3286.870	3286.870	3286.870	3286.870	3286.870	3286.870	310
Stoppers		2 pc(s).	3286.880	3286.880	3286.880	3286.880	3286.880	3286.880	312

Accessories

Spare Filter Mats

See page 307

TopTherm Blue e Roof-Mounted Cooling Units

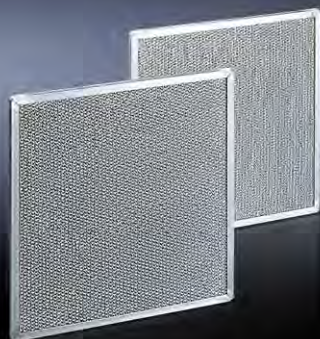
Power category 6824 BTU (2000 W)

Model No.		Packs of	3385.500	3385.510	3385.540	3385.600	3385.640	Page
Material	Stainless steel		–	–	–	■	■	
	Carbon steel		■	■	■	–	–	
Color	RAL 7035		■	■	■	–	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			6824 (2)	6824 (2)	6824 (2)	6824 (2)	6824 (2)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			6824/7302 (2/2.14)	6824/7302 (2/2.14)	6824/7302 (2/2.14)	6824/7302 (2/2.14)	6824/7302 (2/2.14)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			4811/5152 (1.41/1.51)	4811/5152 (1.41/1.51)	4811/5152 (1.41/1.51)	4811/5152 (1.41/1.51)	4811/5152 (1.41/1.51)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	400, 2~, 50/60	230, 1~, 50/60	400, 2~, 50/60	
Height inches (mm)			16 (417)	16 (417)	16 (417)	16 (417)	16 (417)	
Width inches (mm)			24 (597)	24 (597)	24 (597)	24 (597)	24 (597)	
Depth inches (mm)			19 (475)	19 (475)	19 (475)	19 (475)	19 (475)	
Rated current max. A			5.9/6.3	14.2/15.4	3.7/4.2	6.3/7.2	3.7/4.2	
Start-up current A			19.7/17.9	36/32	36/32	19.7/17.9	36/32	
Pre-fuse A			10	10	–	10	–	
Transformer circuit-breaker A			–	–	6.3...10	–	6.3...10	
Rated power P _{ei} 50/60 Hz L35 L35 kW			0.96/1.14	0.96/1.14	0.96/1.17	0.96/1.17	0.96/1.17	
Rated power P _{ei} 50/60 Hz L35 L50 kW			1.07/1.23	1.07/1.24	1.07/1.24	1.07/1.23	1.07/1.24	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.09	2.09	2.09	2.09	2.09	
Refrigerant oz (g)			R134a, 31.7 (900)	R134a, 31.7 (900)	R134a, 31.7 (900)	R134a, 31.7 (900)	R134a, 31.7 (900)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			277/1036 (470/1760)	277/1036 (470/1760)	277/1036 (470/1760)	277/1036 (470/1760)	277/1036 (470/1760)	
Weight lb (kg)			92.6 (42.0)	105.8 (48.0)	105.8 (48.0)	92.6 (42.0)	105.8 (48.0)	

Accessories

Filter Mats	3 pc(s).	3286.500	3286.500	3286.500	3286.500	3286.500	305
Metal Filters	1 pc(s).	3286.510	3286.510	3286.510	3286.510	3286.510	306
Door-Operated Switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	550
Air Duct System	1 pc(s).	3286.870	3286.870	3286.870	3286.870	3286.870	310
Stoppers	2 pc(s).	3286.880	3286.880	3286.880	3286.880	3286.880	312

Accessories



Metal Filters

See page 306

TopTherm Blue e Roof-Mounted Cooling Units

Power category 10236 – 13649 BTU (3000 – 4000 W)

Model No.		Packs of	3386.540	3386.640	3387.540	3387.640	Page
Material	Stainless steel		–	■	–	■	
	Carbon steel		■	–	■	–	
Color	RAL 7035		■	–	■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 BTU (kW)			10236 (3)	10236 (3)	12966 (3.8)	12966 (3.8)	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			10236/11260 (3/3.3)	10236/11260 (3/3.3)	12966/13649 (3.8/4)	12966/13649 (3.8/4)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			7507/8530 (2.2/2.5)	7507/8530 (2.2/2.5)	10407/11260 (3.05/3.3)	10407/11260 (3.05/3.3)	
Rated operating voltage V, ~, Hz			400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Height inches (mm)			19 (470)	19 (470)	19 (470)	19 (470)	
Width inches (mm)			31 (796)	31 (796)	31 (796)	31 (796)	
Depth inches (mm)			23 (580)	23 (580)	23 (580)	23 (580)	
Rated current max. A			3.4/3.4	3.4/3.4	3.9/3.9	3.9/3.9	
Start-up current A			8/9	8/9	17/19	17/19	
Motor circuit-breaker A			6.3...10	6.3...10	6.3...10	6.3...10	
Rated power P _{el} 50/60 Hz L35 L35 kW			1.17/1.48	1.17/1.48	1.59/2.03	1.59/2.03	
Rated power P _{el} 50/60 Hz L35 L50 kW			1.42/1.76	1.42/1.76	1.84/2.31	1.84/2.31	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			2.56	2.56	2.38	2.38	
Refrigerant oz (g)			R134a, 56.4 (1600)	R134a, 56.4 (1600)	R134a, 56.4 (1600)	R134a, 56.4 (1600)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			753/2031 (1280/3450)	753/2031 (1280/3450)	836/2278 (1420/3870)	836/2278 (1420/3870)	
Weight lb (kg)			154.3 (70.0)	154.3 (70.0)	169.8 (77.0)	169.8 (77.0)	
Accessories							
Filter Mats		3 pc(s).	3286.600	3286.600	3286.600	3286.600	305
Metal Filters		1 pc(s).	3286.610	3286.610	3286.610	3286.610	306
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	550
Air Duct System		1 pc(s).	3286.970	3286.970	3286.970	3286.970	310
Stoppers		2 pc(s).	3286.980	3286.980	3286.980	3286.980	312



Modular Climate Control Concept – Blue e Cooling Module



Climate control accessories Page 305 TS 8 Enclosures Page 64 Therm software package Page 321

All cooling modules can be combined individually with every profile door.

Temperature control:

- e-Comfort controller (factory setting +35°C)

Material:

- Carbon steel

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 54

Supply includes:

- Cooling module prepared for installation in section door
- Nano-coated condenser
- Integral electric condensate evaporation

Note:

- A base/plinth with a height of 100 or 200 mm is required for efficient operation

Approvals:

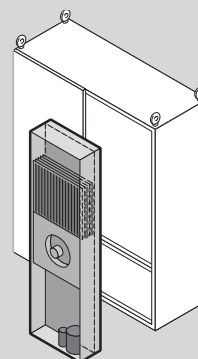
Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet



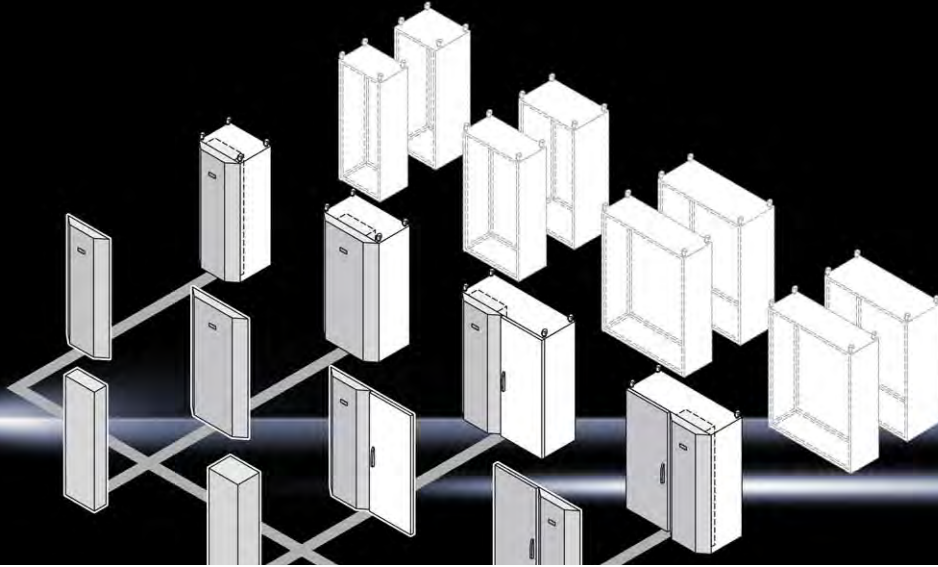
Power category 5118 – 8530 BTU (1500 – 2500 W)

Model No.		Packs of	3307.700	3307.740	3310.700	3310.740	Page
Material	Carbon steel		■	■	■	■	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	400, 3~, 50 460, 3~, 60	230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Total cooling output 50/60 Hz L35 L35 BTU (kW)			5289/5289 (1.55/1.55)	5289/5289 (1.55/1.55)	8530/8599 (2.5/2.52)	8530/8530 (2.5/2.5)	
Total cooling output 50/60 Hz L35 L50 BTU (kW)			2900/3071 (0.85/0.9)	3173/3242 (0.93/0.95)	5528/6005 (1.62/1.76)	6005/6142 (1.76/1.8)	
Rated current max. A			6/6.1	2.5/2.7	7.6/9.4	3.5/3.7	
Start-up current A			22/24	8.5/9.2	22/24	13/14	
Pre-fuse A			16	–	16	–	
Motor circuit-breaker A			–	6.3...10	–	6.3...10	
Rated power P _a 50/60 Hz L35 L35 kW			0.85/1.05	0.79/1	1.31/1.52	1.13/1.48	
Rated power P _a 50/60 Hz L35 L50 kW			1/1.15	0.9/1.1	1.48/1.85	1.4/1.75	
Operating temperature range			+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	+50°F...+131°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511			1.8	1.9	1.9	2.2	
Refrigerant oz (g)			R134a, 24.7 (700)	R134a, 24.7 (700)	R134a, 41.4 (1175)	R134a, 41.4 (1175)	
Permissible operating pressure (p. max.) psi (bar)			406 (28)	406 (28)	406 (28)	406 (28)	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit cfm (m³/h)			353/647 (600/1100)	353/647 (600/1100)	647/647 (1100/1100)	647/647 (1100/1100)	
Weight lb (kg)			149.9 (68.0)	149.9 (68.0)	160.9 (73.0)	158.7 (72.0)	

Also required

Modular Climate Control Concept - Section Doors		see page	see page	see page	see page	285
Accessories						
Door-Operated Switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	550
SK BUS System	1 pc(s).	3124.100	3124.100	3124.100	3124.100	318
RiDiag II	1 pc(s).	3159.100	3159.100	3159.100	3159.100	321
Interface Board	1 pc(s).	3124.200	3124.200	3124.200	3124.200	317

Modular Climate Control Concept – Section Doors



Climate control accessories Page 305 TS 8 Enclosures Page 64 Therm software package Page 321

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Section door without preassembled cooling module
- TS 8 hinges, door opening angle approx. 110°

Note:

The following information applies to 1200 mm wide TS 8 enclosures

- With the unit positioned on the right, one pack consists of a section door for installing in the right side of the enclosure plus a special lockable door for the left side.
- With the unit positioned on the left, one pack consists of a section door for installing in the left side of the enclosure. The existing lockable door on the right side may be used.

Approvals:

Available on the Internet

Technical details:

Available on the Internet

for installing cooling modules

Model No.	Packs of	3300.040	3300.050	3300.060	3300.070	3300.080	3300.090	3300.110	3300.120	Page
Dimensions to fit enclosure type		TS 8	TS 8	TS 8	TS 8	TS 8	TS 8	TS 8	TS 8	
with height (H) inches (mm)		71 (1800)	79 (2000)	71 (1800)	79 (2000)	71 (1800)	79 (2000)	71 (1800)	79 (2000)	
with width (B) inches (mm)		24 (600)	24 (600)	32 (800)	32 (800)	47 (1200)	47 (1200)	47 (1200)	47 (1200)	
Device positioned on the left		–	–	–	–	■	■	–	–	
Device positioned on the right		–	–	–	–	–	–	■	■	
Also required										
Modular Climate Control Concept Blue e Cooling Module		see page	see page	see page	see page	see page	see page	see page	see page	284
Accessories										
Metal Filters	1 pc(s).	3284.210	3284.210	3284.210	3284.210	3284.210	3284.210	3284.210	3284.210	306

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Liquid Cooling

Air/Water Heat Exchangers

Wall-Mounted	1024 – 1706 BTU	288
Wall-Mounted	2047 – 3412 BTU	289
Wall-Mounted	4265 – 10236 BTU	290
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Wall-Mounted	23885 BTU	293
Roof-Mounted	8530 – 13649 BTU	294

Liquid Cooling Package

LCP Rack Industry	34121 BTU	296
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Chiller

TopTherm	3412 – 5118 BTU	297
TopTherm	10236 – 20473 BTU	298
TopTherm, Wall-Mounted	3412 – 8530 BTU	299
TopTherm	27297 – 54594 BTU	300
TopTherm	68243 – 136486 BTU	301



Air/Water Heat Exchangers



Climate control accessories Page 305 Chillers Page 297 Therm software package Page 321

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Cooling medium:

- Water (see Internet for specifications)

Supply includes:

- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Sealing and assembly components

Note:

- Integral non-return valve for version with e-Comfort controller

Approvals:

Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet

Power category 1024 – 1706 BTU (300 – 500 W), wall-mounted

Model No.		Packs of	3212.024	3212.115	3212.230	3363.100	3363.500	Page
Water-carrying parts	Copper/brass (Cu/CuZn)		■	■	■	■	■	
Temperature control	Basic controller (factory setting +35°C)		–	–	–	■	–	
	e-Comfort controller (factory setting +35°C)		–	–	–	–	■	
Total cooling output L35 W10, 52.8 gal/h (200 l/h) BTU (kW)			1024 (0.3)	1024 (0.3)	1024 (0.3)	–	–	
Total cooling output L35 W10, 105 gal/h (400 l/h) BTU (kW)			–	–	–	1706 (0.5)	1706 (0.5)	
Rated operating voltage V, ~, Hz			24 (DC)	115, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Height inches (mm)			12 (300)	12 (300)	12 (300)	22 (550)	22 (550)	
Width inches (mm)			6 (150)	6 (150)	6 (150)	11 (280)	11 (280)	
Depth inches (mm)			3 (85)	3 (85)	3 (85)	5 (120)	5 (120)	
Rated power P _{el} 50/60 Hz BTU (W)			89 (26)	89/102 (26/30)	78/92 (23/27)	126/130 (37/38)	126/130 (37/38)	
Rated current max. A			1.2	0.23/0.24	0.11/0.13	0.18/0.18	0.18/0.18	
Pre-fuse A			2	2	2	4	4	
Operating temperature range			+34°F...+158°F	+34°F...+158°F	+34°F...+158°F	+34°F...+158°F	+34°F...+158°F	
Setting range			–	–	–	+68°F...+131°F	+68°F...+131°F	
Water inlet temperature			+34°F...+86°F	+34°F...+86°F	+34°F...+86°F	+34°F...+86°F	+34°F...+86°F	
Water connection	½" connector sleeve		–	–	–	■	■	
	G ¾" external thread		–	–	–	■	■	
	¾" connector sleeve		■	■	■	–	–	
Permissible operating pressure (p. max.) psi (bar)			15 - 145 (1 - 10)	15 - 145 (1 - 10)	15 - 145 (1 - 10)	15 - 145 (1 - 10)	15 - 145 (1 - 10)	
Air throughput of fans (unimpeded air flow) cfm (m³/h)			147 (250)	153/177 (260/300)	165/182 (280/310)	171/203 (290/345)	171/203 (290/345)	
Weight lb (kg)			7.1 (3.2)	7.1 (3.2)	7.1 (3.2)	17.6 (8.0)	17.6 (8.0)	

Accessories

Condensate Hose	1 pc(s).	3301.610	3301.610	3301.610	3301.612	3301.612	313
Door-Operated Switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	550
Toroidal Transformer, Primary Connection 115 V/400 V	1 pc(s).	–	–	3201.960	see page	see page	318
Fitting G ¾"	2 pc(s).	–	–	–	3201.900	3201.900	314
Flow Regulator Valve		see page	see page	see page	see page	see page	314
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	–	–	315
SK BUS System	1 pc(s).	–	–	–	–	3124.100	318
Interface Board	1 pc(s).	–	–	–	–	3124.200	317

Air/Water Heat Exchangers

Power category 2047 – 3412 BTU (600 – 1000 W), wall-mounted

Model No.		Packs of	3214.100	3364.100	3364.500	Page
Water-carrying parts	Stainless steel (1.4571)		–	–	–	
	Copper/brass (Cu/CuZn)		■	■	■	
Temperature control	Basic controller (factory setting +35°C)		–	■	–	
	e-Comfort controller (factory setting +35°C)		–	–	■	
	Thermostat-controlled solenoid valve		■	–	–	
Total cooling output L35 W10, 52.8 gal/h (200 l/h) BTU (kW)			2047 (0.6)	–	–	
Total cooling output L35 W10, 105 gal/h (400 l/h) BTU (kW)			2388 (0.7)	3412 (1)	3412 (1)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Height inches (mm)			20 (500)	22 (550)	22 (550)	
Width inches (mm)			8 (200)	11 (280)	11 (280)	
Depth inches (mm)			4 (100)	5 (120)	5 (120)	
Rated power P _{el} 50/60 Hz BTU (W)			123/126 (36/37)	123/130 (37/38)	123/130 (37/38)	
Rated current max. A			0.17/0.18	0.18/0.18	0.18/0.18	
Pre-fuse A			2	4	4	
Operating temperature range			+34°F...+158°F	+34°F...+158°F	+34°F...+158°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Water inlet temperature			+34°F...+86°F	+34°F...+86°F	+34°F...+86°F	
Water connection	½" connector sleeve		■	■	■	
	G ¾" external thread		–	■	■	
Permissible operating pressure (p. max.) psi (bar)			15 - 145 (1 - 10)	15 - 145 (1 - 10)	15 - 145 (1 - 10)	
Air throughput of fans (unimpeded air flow) cfm (m³/h)			165/182 (280/310)	171/203 (290/345)	171/203 (290/345)	
Weight lb (kg)			15.4 (7.0)	19.8 (9.0)	19.8 (9.0)	
Accessories						
Condensate Hose		1 pc(s).	3301.612	3301.612	3301.612	313
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	550
Toroidal Transformer, Primary Connection 115 V/400 V			see page	see page	see page	318
Fitting G ¾"		2 pc(s).	–	3201.900	3201.900	314
Flow Regulator Valve			see page	see page	see page	314
Digital Enclosure Internal Temperature Display and Thermostat			–	–	–	
SK BUS System		1 pc(s).	–	–	3124.100	318
Interface Board		1 pc(s).	–	–	3124.200	317

Accessories



Therm Software

See page 321

Air/Water Heat Exchangers

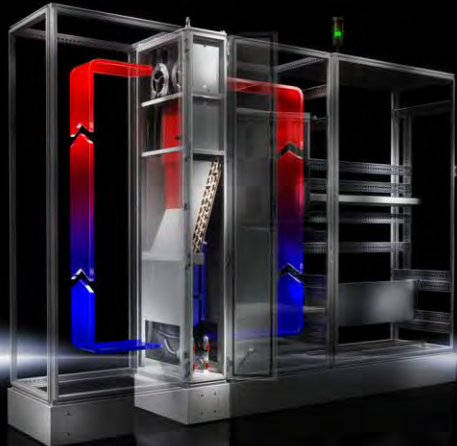
Power category 4265 – 6824 BTU (1250 – 2000 W), wall-mounted

Model No.		Packs of	3215.100	3373.100	3373.500	Page
Water-carrying parts	Stainless steel (1.4571)		–	–	–	
	Copper/brass (Cu/CuZn)		■	■	■	
Temperature control	Basic controller (factory setting +35°C)		–	■	–	
	e-Comfort controller (factory setting +35°C)		–	–	■	
	Thermostat-controlled solenoid valve		■	–	–	
Total cooling output L35 W10, 52.8 gal/h (200 l/h) BTU (kW)			4265 (1.25)	–	–	
Total cooling output L35 W10, 105 gal/h (400 l/h) BTU (kW)			4436 (1.3)	6824 (2)	6824 (2)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Height inches (mm)			37 (950)	37 (950)	37 (950)	
Width inches (mm)			8 (200)	16 (400)	16 (400)	
Depth inches (mm)			4 (100)	6 (145)	6 (145)	
Rated power P _a 50/60 Hz BTU (W)			283/290 (83/85)	375/478 (110/140)	375/478 (110/140)	
Rated current max. A			0.38/0.4	0.49/0.61	0.49/0.61	
Pre-fuse A			4	4	4	
Operating temperature range			+34°F...+158°F	+34°F...+158°F	+34°F...+158°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Water inlet temperature			+34°F...+86°F	+34°F...+86°F	+34°F...+86°F	
Water connection	½" connector sleeve		■	■	■	
	G ¾" external thread		–	■	■	
Permissible operating pressure (p. max.) psi (bar)			15 - 145 (1 - 10)	15 - 145 (1 - 10)	15 - 145 (1 - 10)	
Air throughput of fans (unimpeded air flow) cfm (m³/h)			400/433 (680/735)	518/559 (880/950)	518/559 (880/950)	
Weight lb (kg)			28.7 (13.0)	44.1 (20.0)	44.1 (20.0)	

Accessories

Condensate Hose	1 pc(s).	3301.612	3301.612	3301.612	313
Door-Operated Switch	1 pc(s).	4127.010	4127.010	4127.010	550
Toroidal Transformer, Primary Connection 115 V/400 V		see page	–	–	318
Fitting G ¾"	2 pc(s).	–	3201.900	3201.900	314
Flow Regulator Valve		see page	see page	see page	314
Digital Enclosure Internal Temperature Display and Thermostat		–	–	–	
SK BUS System	1 pc(s).	–	–	3124.100	318
Interface Board	1 pc(s).	–	–	3124.200	317

New



LCP – Liquid Cooling Package

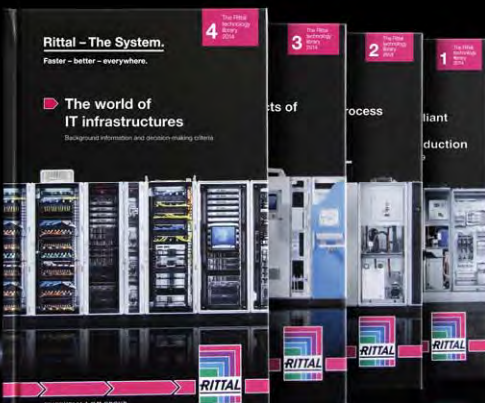
See page 296

Air/Water Heat Exchangers

Power category 9554 – 10236 BTU (2800 – 3000 W), wall-mounted

Model No.		Packs of	3374.504	3374.100	3374.110	Page
Water-carrying parts	Stainless steel (1.4571)		■	–	–	
	Copper/brass (Cu/CuZn)		–	■	■	
Temperature control	Basic controller (factory setting +35°C)		–	■	■	
	e-Comfort controller (factory setting +35°C)		■	–	–	
	Thermostat-controlled solenoid valve		–	–	–	
Total cooling output L35 W10, 105 gal/h (400 l/h) BTU (kW)			9554 (2.8)	10236 (3)	10236 (3)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	
Height inches (mm)			37 (950)	37 (950)	37 (950)	
Width inches (mm)			16 (400)	16 (400)	16 (400)	
Depth inches (mm)			6 (145)	6 (145)	6 (145)	
Rated power P _a 50/60 Hz BTU (W)			577/792 (169/232)	577/792 (169/232)	577/792 (169/232)	
Rated current max. A			0.76/1.01	0.76/1.01	0.76/1.01	
Pre-fuse A			4	4	4	
Operating temperature range			+34°F...+158°F	+34°F...+158°F	+34°F...+158°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Water inlet temperature			+34°F...+86°F	+34°F...+86°F	+34°F...+86°F	
Water connection	½" connector sleeve		■	■	■	
	G ¾" external thread		■	■	■	
Permissible operating pressure (p. max.) psi (bar)			15 - 145 (1 - 10)	15 - 145 (1 - 10)	15 - 145 (1 - 10)	
Air throughput of fans (unimpeded air flow) cfm (m³/h)			677/765 (1150/1300)	677/765 (1150/1300)	677/765 (1150/1300)	
Weight lb (kg)			50.7 (23.0)	50.7 (23.0)	50.7 (23.0)	
Accessories						
Condensate Hose		1 pc(s).	3301.612	3301.612	3301.612	313
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	550
Toroidal Transformer, Primary Connection 115 V/400 V			–	–	–	318
Fitting G ¾"		2 pc(s).	3201.900	3201.900	3201.900	314
Flow Regulator Valve			see page	see page	see page	314
Digital Enclosure Internal Temperature Display and Thermostat			–	–	–	
SK BUS System		1 pc(s).	3124.100	–	–	318
Interface Board		1 pc(s).	3124.200	–	–	317

Technology Library



Expert knowledge from the experts

See Rittal websites

Air/Water Heat Exchangers

Power category 10236 – 17061 BTU (3000 – 5000 W), wall-mounted

Model No.		Packs of	3374.500	3375.100	3375.500	3375.510	Page
Water-carrying parts	Stainless steel (1.4571)		–	–	–	–	
	Copper/brass (Cu/CuZn)		■	■	■	■	
Temperature control	Basic controller (factory setting +35°C)		–	■	–	–	
	e-Comfort controller (factory setting +35°C)		■	–	■	■	
Total cooling output L35 W10, 52.8 gal/h (200 l/h) BTU (kW)			–	–	–	–	
Total cooling output L35 W10, 105 gal/h (400 l/h) BTU (kW)			10236 (3)	17061 (5)	17061 (5)	17061 (5)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	
Height inches (mm)			37 (950)	55 (1400)	55 (1400)	55 (1400)	
Width inches (mm)			16 (400)	18 (450)	18 (450)	18 (450)	
Depth inches (mm)			6 (145)	9 (220)	9 (220)	9 (220)	
Rated power P _a 50/60 Hz BTU (W)			577/ 792 (169/232)	607/792 (178/232)	607/792 (178/232)	607/792 (178/232)	
Rated current max. A			0.76/1.01	0.78/1.01	0.78/1.01	0.78/1.01	
Pre-fuse A			4	4	4	4	
Operating temperature range			+34°F...+158°F	+34°F...+158°F	+34°F...+158°F	+34°F...+158°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Water inlet temperature			+34°F...+86°F	+34°F...+86°F	+34°F...+86°F	+34°F...+86°F	
Water connection	1/2" connector sleeve		■	■	■	■	
	G 3/8" external thread		■	■	■	■	
Permissible operating pressure (p. max.) psi (bar)			15 - 145 (1 - 10)	15 - 145 (1 - 10)	15 - 145 (1 - 10)	15 - 145 (1 - 10)	
Air throughput of fans (unimpeded air flow) cfm (m³/h)			677/765 (1150/1300)	877/977 (1490/1660)	877/977 (1490/1660)	877/977 (1490/1660)	
Weight lb (kg)			50.7 (23.0)	86.0 (39.0)	86.0 (39.0)	86.0 (39.0)	

Accessories

Condensate Hose	1 pc(s).	3301.612	3301.612	3301.612	3301.612	313
Door-Operated Switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	550
Toroidal Transformer, Primary Connection 115 V/400 V		–	–	–	–	
Fitting G 3/8"	2 pc(s).	3201.900	3201.900	3201.900	3201.900	314
Flow Regulator Valve		see page	see page	see page	see page	314
Digital Enclosure Internal Temperature Display and Thermostat		–	–	–	–	
SK BUS System	1 pc(s).	3124.100	–	3124.100	3124.100	318
Interface Board	1 pc(s).	3124.200	–	3124.200	3124.200	317

Accessories



TopTherm Chillers

See page 297



Climate control accessories Page 305 Chillers Page 297 Therm software package Page 321

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Cooling medium:

- Water (see Internet for specifications)

Supply includes:

- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Sealing and assembly components

Note:

- Use 3-pole miniature circuit-breaker

Approvals:

Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet

Power category 23885 BTU (7000 W), wall-mounted

Model No.		Packs of	3216.480	Page
Water-carrying parts	Copper/brass (Cu/CuZn)		■	
Temperature control	Thermostat-controlled solenoid valve		■	
Total cooling output L35 W10, 132 gal/h (500 l/h) BTU (kW)			23885 (7)	
Total cooling output L35 W20, 132 gal/h (500 l/h) BTU (kW)			15355 (4.5)	
Rated operating voltage V, ~, Hz			400, 3~, 50 460, 3~, 60	
Height inches (mm)			71 (1800)	
Width inches (mm)			18 (450)	
Depth inches (mm)			12 (300)	
Rated current max. A			1.4/1.6	
Pre-fuse A			4	
Operating temperature range			+34°F...+158°F	
Setting range			+68°F...+131°F	
Water inlet temperature			+34°F...+86°F	
Permissible operating pressure (p. max.) psi (bar)			15 - 145 (1 - 10)	
Air throughput of fans (unimpeded air flow) cfm (m³/h)			2137/2749 (3630/4670)	
Weight lb (kg)			174.2 (79.0)	
Accessories				
Door-Operated Switch	1 pc(s).		4127.010	550
Condensate Hose	1 pc(s).		3301.612	313
Flow Regulator Valve			see page	314

Air/Water Heat Exchangers



Climate control accessories Page 305 Chillers Page 297 Roof plates TS with mounting cut-out Page 319 Air routing Page 310

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Cooling medium:

- Water (see Internet for specifications)

Supply includes:

- Wired ready for connection (plug-in terminal strip)
- Drilling template
- Sealing mat
- Assembly components

Approvals:

Available on the Internet

Performance diagrams:

Available on the Internet

Technical details:

Available on the Internet

Power category 8530 BTU (2500 W), roof-mounted

Model No.		Packs of	3209.100	3209.500	Page
Water-carrying parts	Stainless steel (1.4571)		–	–	
	Copper/brass (Cu/CuZn)		■	■	
Temperature control	Basic controller (factory setting +35°C)		■	–	
	e-Comfort controller (factory setting +35°C)		–	■	
Total cooling output L35 W10, 105 gal/h (400 l/h)			8530 (2.5)	8530 (2.5)	
BTU (kW)					
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	
Height inches (mm)			16 (417)	16 (417)	
Width inches (mm)			24 (597)	24 (597)	
Depth inches (mm)			19 (475)	19 (475)	
Rated power P _{at} 50/60 Hz BTU (W)			324/375 (95/110)	324/375 (95/110)	
Rated current max. A			0.4/0.48	0.4/0.48	
Pre-fuse A			4	4	
Operating temperature range			+34°F...+158°F	+34°F...+158°F	
Setting range			+68°F...+131°F	+68°F...+131°F	
Water inlet temperature			+34°F...+86°F	+34°F...+86°F	
Water connection	½" connector sleeve		■	■	
	G ¾" external thread		■	■	
Permissible operating pressure (p. max.) psi (bar)			15 - 145 (1 - 10)	15 - 145 (1 - 10)	
Air throughput of fans (unimpeded air flow) cfm (m³/h)			544/606 (925/1030)	544/606 (925/1030)	
Weight lb (kg)			51.8 (23.5)	51.8 (23.5)	
Accessories					
Door-Operated Switch		1 pc(s).	4127.010	4127.010	550
SK BUS System		1 pc(s).	–	3124.100	318
Interface Board		1 pc(s).	–	3124.200	317
Air Duct System		1 pc(s).	3286.870	3286.870	310
Stoppers		2 pc(s).	3286.880	3286.880	312
Condensate Hose		1 pc(s).	3301.612	3301.612	313
Flow Regulator Valve			see page	see page	314

Air/Water Heat Exchangers

Power category 13649 BTU (4000 W), roof-mounted

Model No.		Packs of	3210.100	3210.500	3210.510	Page
Water-carrying parts	Stainless steel (1.4571)		—	—	—	
	Copper/brass (Cu/CuZn)		■	■	■	
Temperature control	Basic controller (factory setting +35°C)		■	—	—	
	e-Comfort controller (factory setting +35°C)		—	■	■	
Total cooling output L35 W10, 105 gal/h (400 l/h) BTU (kW)			13649 (4)	13649 (4)	13649 (4)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	
Height inches (mm)			16 (417)	16 (417)	16 (417)	
Width inches (mm)			24 (597)	24 (597)	24 (597)	
Depth inches (mm)			19 (475)	19 (475)	19 (475)	
Rated power P _{el} 50/60 Hz BTU (W)			341/409 (100/120)	341/409 (100/120)	341/409 (100/120)	
Rated current max. A			0.44/0.5	0.44/0.5	0.44/0.5	
Pre-fuse A			4	4	4	
Operating temperature range			+34°F...+158°F	+34°F...+158°F	+34°F...+158°F	
Setting range			+68°F...+131°F	+68°F...+131°F	+68°F...+131°F	
Water inlet temperature			+34°F...+86°F	+34°F...+86°F	+34°F...+86°F	
Water connection	½" connector sleeve		■	■	■	
	G ¾" external thread		■	■	■	
Permissible operating pressure (p. max.) psi (bar)			15 - 145 (1 - 10)	15 - 145 (1 - 10)	15 - 145 (1 - 10)	
Air throughput of fans (unimpeded air flow) cfm (m³/h)			480/544 (815/925)	480/544 (815/925)	480/544 (815/925)	
Weight lb (kg)			56.2 (25.5)	56.2 (25.5)	65.0 (29.5)	
Accessories						
Door-Operated Switch		1 pc(s).	4127.010	4127.010	4127.010	550
SK BUS System		1 pc(s).	—	3124.100	3124.100	318
Interface Board		1 pc(s).	—	3124.200	3124.200	317
Air Duct System		1 pc(s).	3286.870	3286.870	3286.870	310
Stoppers		2 pc(s).	3286.880	3286.880	3286.880	312
Condensate Hose		1 pc(s).	3301.612	3301.612	3301.612	313
Flow Regulator Valve			see page	see page	see page	314

Accessories

Air Duct System

See page 310

Liquid Cooling Package



Climate control accessories Page 305 Chillers Page 297 Therm software package Page 321

Air/water heat exchangers in TS 8 baying system, to fit 2000 mm high and 600 or 800 mm deep TS 8 enclosures. Air outlet either with 5 kW on each side or 10 kW on one side only. Flexible water connection options on the top or bottom of the unit.

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 54

Cooling medium:

- Water (see Internet for specifications)

Supply includes:

- Wired ready for connection (plug-in terminal strip)
- Front door

Note:

- Bayable by screw-fastening at the sides

Performance diagrams:

Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

Power category 34121 BTU (10 kW), LCP Rack Industry

Model No.		Packs of	3378.200	3378.280	Page
Water-carrying parts	Copper/brass (Cu/CuZn)		■	■	
Total cooling output L35 W10, 528 gal/h (2000 l/h)			34121 (10)	34121 (10)	
BTU (kW)					
Rated power P_{a1} 50/60 Hz BTU (W)			2402/2784 (704/816)	2402/2784 (704/816)	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	
Height inches (mm)			79 (2000)	79 (2000)	
Width inches (mm)			12 (300)	12 (300)	
Depth inches (mm)			24 (600)	32 (800)	
Rated current max. A			3/3.5	3/3.5	
Pre-fuse A			4	4	
Operating temperature range			+41°F...+158°F	+41°F...+158°F	
Setting range			+68°F...+131°F	+68°F...+131°F	
Water inlet temperature			+45°F...+86°F	+45°F...+86°F	
Water connection	¾" internal thread		■	■	
	¾" connector sleeve		■	■	
Permissible operating pressure (p. max.) psi (bar)			15 - 145 (1 - 10)	15 - 145 (1 - 10)	
Air throughput of fans (unimpeded air flow) cfm (m³/h)			1248/1154 (2120/1960)	1248/1154 (2120/1960)	
Weight lb (kg)			266.8 (121.0)	286.6 (130.0)	
Accessories					
Base/plinth components, front and rear, 4" (100 mm)		1 set(s)	8601.915	8601.915	427
Base/plinth trim panels, side, 4" (100 mm)		1 set(s)	8601.060	8601.080	428
Side panels, screw-fastened, carbon steel		2 pc(s)	8106.235	8108.235	450
Condensate hose		1 pc(s)	3301.612	3301.612	313



Climate control accessories Page 305 Cooling medium Page 314 Flow regulator valve Page 314 Therm software package Page 321

Design:

- Compact, modular layout of the refrigeration components
- Nano-coated condenser
- Pump to convey the medium
- Precise temperature control, based on microprocessor technology
- Collective fault signal with floating contact

Temperature control:

- Microcontroller control (factory setting +20°C)

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 44 (electrics)

Supply includes:

- Complete unit ready for connection
- Multilingual documentation including functional diagram and wiring plans

Note:

- For 3334.660, two metal filters are required

Characteristic curves of pump:

Available on the Internet

Approvals:

Available on the Internet

Technical details:

Available on the Internet

Power category 3412 – 5118 BTU (1000 – 1500 W)

Model No.	Packs of	3318.600	3318.610	3319.600	3319.610	Page
Total cooling output at $T_w = 50^\circ\text{F}/T_u = 90^\circ\text{F}$ BTU (kW)		2730/3071 (0.8/0.9)	2730/3071 (0.8/0.9)	4095/4436 (1.2/1.3)	4095/4436 (1.2/1.3)	
Total cooling output at $T_w = 64^\circ\text{F}/T_u = 90^\circ\text{F}$ BTU (kW)		3412/3753 (1/1.1)	3412/3753 (1/1.1)	5118/5801 (1.5/1.7)	5118/5801 (1.5/1.7)	
Rated power P_{el} 50/60 Hz BTU (kW)		2150/2661 (0.63/0.78)	2150/2661 (0.63/0.78)	2900/3583 (0.85/1.05)	2900/3583 (0.85/1.05)	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Height inches (mm)		16 (400)	16 (400)	16 (400)	16 (400)	
Width inches (mm)		24 (600)	24 (600)	24 (600)	24 (600)	
Depth inches (mm)		17 (430)	17 (430)	17 (430)	17 (430)	
Rated current max. A		4.2/4.1	4.2/4.1	5.4/5.3	5.4/5.3	
Operating temperature range		+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	
Refrigerant		R134a	R134a	R134a	R134a	
Water connection	½" internal thread	■	■	■	■	
Temperature hysteresis		+/- 2 K	+/- 2 K	+/- 2 K	+/- 2 K	
Liquid temperature		+50°F...+86°F	+50°F...+86°F	+50°F...+86°F	+50°F...+86°F	
Version		(pressure-sealed,	open)	(pressure-sealed,	open)	
Tank		–	Plastic PP	–	Plastic PP	
Tank capacity gal (l)		–	0.7 (2.5)	–	0.7 (2.5)	
Weight lb (kg)		105.8 (48.0)	105.8 (48.0)	112.4 (51.0)	112.4 (51.0)	
Accessories						
Metal Filters	1 pc(s).	3286.510	3286.510	3286.510	3286.510	306

TopTherm Chillers

Power category 10236 – 20473 BTU (3000 – 6000 W)

Model No.	Packs of	3320.600	3334.600	3334.660	Page
Total cooling output at $T_w = 50^\circ\text{F} / T_u = 90^\circ\text{F}$ BTU (kW)		9213/10236 (2.7/3)	13307/16037 (3.9/4.7)	16378/17743 (4.8/5.2)	
Total cooling output at $T_w = 64^\circ\text{F} / T_u = 90^\circ\text{F}$ BTU (kW)		10236/11601 (3/3.4)	15355/18426 (4.5/5.4)	20814/22520 (6.1/6.6)	
Rated power P_{el} 50/60 Hz BTU (kW)		7165/9213 (2.1/2.7)	9895/13990 (2.9/4.1)	13990/16378 (4.1/4.8)	
Rated operating voltage V, ~, Hz		400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Height inches (mm)		27 (676)	27 (676)	41 (1050)	
Width inches (mm)		24 (602)	24 (602)	24 (602)	
Depth inches (mm)		25 (645)	25 (645)	25 (645)	
Rated current max. A		4.1/4.4	5.7/6.3	8.4/9	
Operating temperature range		+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	
Refrigerant		R134a	R134a	R134a	
Integral tank level display		—	—	■	
Water connection	½" internal thread	■	■	—	
	¾" internal thread	—	—	■	
Temperature hysteresis		+/- 2 K	+/- 2 K	+/- 2 K	
Liquid temperature		+50°F...+86°F	+50°F...+86°F	+50°F...+86°F	
Version		open)	open)	open)	
Tank		Plastic PP	Plastic PP	Plastic PP	
Tank capacity gal (l)		7.9 (30)	7.9 (30)	7.9 (30)	
Weight lb (kg)		194.0 (88.0)	207.2 (94.0)	275.6 (125.0)	
Accessories					
Metal Filters	1 pc(s).	3286.520	3286.520	3286.510	306

New



LCP – Liquid Cooling Package

See page 350



Climate control accessories Page 305 Cooling medium Page 314 Flow regulator valve Page 314 Therm software package Page 321

Design:

- Compact, modular layout of the refrigeration components
- Nano-coated condenser
- Pump to convey the medium
- Precise temperature control, based on microprocessor technology
- Open system with tank
- Collective fault signal with floating contact

Temperature control:

- Microcontroller control (factory setting +20°C)

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 44 (electronics)

Supply includes:

- Complete unit ready for connection
- Multilingual documentation including functional diagram and wiring plans

Characteristic curves of pump:

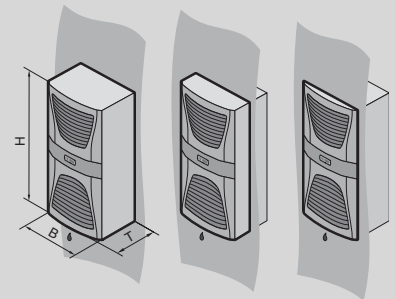
Available on the Internet

Approvals:

Available on the Internet

Technical details:

Available on the Internet



Power category 3412 – 8530 BTU (1000 – 2500 W), wall-mounted

Model No.	Packs of	3360.250	Page
Total cooling output at $T_w = 50^\circ\text{F} / T_u = 90^\circ\text{F}$ BTU (kW)		7165/7848 (2.1/2.3)	
Total cooling output at $T_w = 64^\circ\text{F} / T_u = 90^\circ\text{F}$ BTU (kW)		8530/9554 (2.5/2.8)	
Rated power P_{el} 50/60 Hz BTU (kW)		5289/6824 (1.55/2)	
Rated operating voltage V, ~, Hz		400, 3~, 50 460, 3~, 60	
Height (H) inches (mm)		62 (1580)	
Width (B) inches (mm)		16 (400)	
Depth (T) inches (mm)		11 (290)	
Rated current max. A		5.5/5.6	
Operating temperature range		+50°F...+109°F	
Refrigerant		R134a	
Water connection	Quick-release coupling (counterpart included in accessories bag)	■	
Temperature hysteresis		+/- 2 K	
Liquid temperature		+50°F...+86°F	
Tank		Plastic PP	
Tank capacity gal (l)		2.6 (10)	
Weight lb (kg)		172.0 (78.0)	
Accessories			
Metal Filters	1 pc(s).	3286.410	306

TopTherm Chillers



Climate control accessories Page 305 Cooling medium Page 314 Flow regulator valve Page 314 Therm software package Page 321

Advantages:

- Modular design
- Small footprint
- Convenient servicing
- High reliability thanks to icing protection
- Dual frequencies for international compatibility
- Base platform readily available from stock

Temperature control:

- Microcontroller control (factory setting +18°C, differential value control also possible)

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 44 (electrics)

Supply includes:

- Complete unit with side panels and door ready for connection
- Multilingual documentation including functional diagram and wiring plans

Note:

- For 3335.880 and 3335.890, two metal filters are required

Characteristic curves of pump:

Available on the Internet

Approvals:

Available on the Internet

Technical details:

Available on the Internet

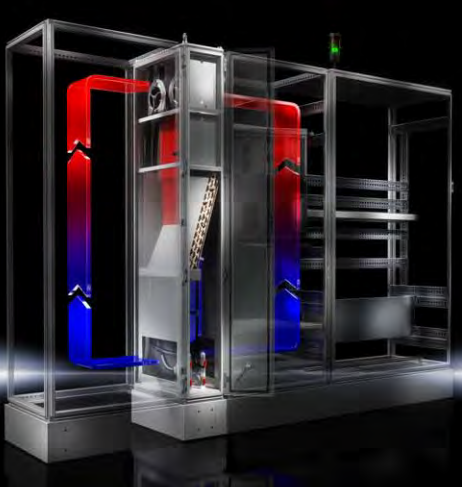
Power category 27297 – 54594 BTU (8000 – 16000 W)

Model No.	Packs of	3335.790	3335.830	3335.840	3335.850	Page
Total cooling output at $T_w = 50^\circ\text{F}/T_u = 90^\circ\text{F}$ BTU (kW)		22179/25591 (6.5/7.5)	22179/25591 (6.5/7.5)	35145/38557 (10.3/11.3)	47088/51865 (13.8/15.2)	
Total cooling output at $T_w = 64^\circ\text{F}/T_u = 90^\circ\text{F}$ BTU (kW)		27297/29344 (8/8.6)	27297/29344 (8/8.6)	40946/44699 (12/13.1)	54594/60054 (16/17.6)	
Rated power P_{el} 50/60 Hz BTU (kW)		14911/17777 (4.37/5.21)	14911/17777 (4.37/5.21)	22520/26478 (6.6/7.76)	24909/31392 (7.3/9.2)	
Rated operating voltage V, ~, Hz		400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Height inches (mm)		67 (1700)	83 (2100)	84 (2140)	84 (2140)	
Width inches (mm)		32 (805)	32 (805)	32 (805)	32 (805)	
Depth inches (mm)		24 (605)	24 (605)	24 (605)	24 (605)	
Rated current max. A		8.2/7.7	8.2/7.7	10/11.4	12.7/13.3	
Operating temperature range		+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	
Refrigerant		R410a	R410a	R410a	R410a	
Water connection	1" internal thread	■	■	■	■	
Temperature hysteresis		+/- 2 K	+/- 2 K	+/- 2 K	+/- 2 K	
Liquid temperature		+50°F...+77°F	+50°F...+77°F	+50°F...+77°F	+50°F...+77°F	
Tank capacity gal (l)		19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	
Weight lb (kg)		546.7 (248.0)	546.7 (248.0)	621.7 (282.0)	621.7 (282.0)	
Accessories						
Metal Filters	1 pc(s).	3286.550	3286.550	3286.530	3286.530	306
Flex-Block Base/Plinth System		from page	from page	from page	from page	424
TS Base/Plinth		from page	from page	from page	from page	426
Cooling Medium		see page	see page	see page	see page	314

Power category 68243 – 136486 BTU (20000 – 40000 W)

Model No.	Packs of	3335.860	3335.870	3335.880	3335.890	Page
Total cooling output at $T_w = 50^\circ\text{F}/T_u = 90^\circ\text{F}$ BTU (kW)		56642/63807 (16.6/18.7)	70973/ 81209 (20.8/23.8)	92128/103729 (27/30.4)	110895/127955 (32.5/37.5)	
Total cooling output at $T_w = 64^\circ\text{F}/T_u = 90^\circ\text{F}$ BTU (kW)		68243/74385 (20/21.8)	85304/94175 (25/27.6)	109189/120107 (32/35.2)	136486/150134 (40/44)	
Rated power P_{a} 50/60 Hz BTU (kW)		31392/40946 (9.2/12)	38898/47429 (11.4/13.9)	51012/60054 (14.95/17.6)	61111/78820 (17.91/23.1)	
Rated operating voltage V, ~, Hz		400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Height inches (mm)		84 (2140)	84 (2140)	84 (2140)	84 (2140)	
Width inches (mm)		47 (1205)	47 (1205)	63 (1605)	95 (2405)	
Depth inches (mm)		24 (605)	24 (605)	24 (605)	24 (605)	
Rated current max. A		20.1/17.3	22.8/23.8	26.3/26.7	38.4/32.7	
Operating temperature range		+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	
Refrigerant		R410a	R410a	R410a	R410a	
Water connection	1" internal thread	■	■	–	–	
	1½" internal thread	–	–	■	■	
Temperature hysteresis		+/- 2 K	+/- 2 K	+/- 2 K	+/- 2 K	
Liquid temperature		+50°F...+77°F	+50°F...+77°F	+50°F...+77°F	+50°F...+77°F	
Tank capacity gal (l)		39.6 (150)	39.6 (150)	19.8 (75)	39.6 (150)	
Weight lb (kg)		793.7 (360.0)	824.5 (374.0)	1126.6 (511.0)	1424.2 (646.0)	
Accessories						
Metal Filters	1 pc(s).	3286.540	3286.540	3286.530	3286.540	306
Flex-Block Base/Plinth System		from page	from page	from page	from page	424
TS Base/Plinth		from page	from page	from page	from page	426
Cooling Medium		see page	see page	see page	see page	314

New



LCP – Liquid Cooling Package

See page 296

Enclosure Heaters



Climate control accessories Page 305 Therm software package Page 321

Supply includes:

- PTC heater
- Quick-connection terminal
- Assembly components

Note:

- For precise temperature control inside the enclosure, we recommend using the enclosure internal thermostat or the digital enclosure internal temperature display and thermostat.

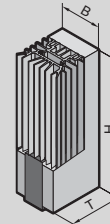
- In order to prevent condensation on the components, the Hygostat is recommended to regulate heating.
- In larger enclosures, even heat distribution is best achieved by installing several low-output heaters
- The installation of heaters is generally advisable in order to prevent condensation.

Approvals:

- UR
- cUR
- CSA

Technical details:

Available on the Internet



Continuous thermal output 34 – 512 BTU (10 – 150 W), without fan

Model No.	Packs of	3105.310	3105.320	3105.330	3105.340	3105.350	3105.360	3105.370	Page
Height (H) inches (mm)		5 (120)	5 (120)	6 (155)	6 (155)	9 (230)	6 (165)	7 (180)	
Width (B) inches (mm)		2 (45)	2 (45)	3 (64)	3 (64)	3 (64)	4 (90)	4 (90)	
Depth (T) inches (mm)		2 (46)	2 (46)	2 (56)	2 (56)	2 (56)	3 (75)	3 (75)	
Continuous thermal output at T_u = 50°F BTU (W)		27 - 34 (8 - 10)	61 - 68 (18 - 20)	78 - 102 (23 - 30)	167 - 171 (49 - 50)	215 - 256 (63 - 75)	293 - 341 (86 - 100)	444 - 512 (130 - 150)	
Rated operating voltage V, ~, Hz		110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	
Pre-fuse A		2	2	4	4	4	4	4	
Accessories									
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	315
Hygostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	316
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	315
Bottom-Mounted Adapter	1 pc(s).	3110.200	3110.200	3110.200	3110.200	3110.200	3110.200	3110.200	316



Climate control accessories Page 305 Therm software package Page 321

Supply includes:

- PTC heater
- Fan
- Quick-connection terminal
- Assembly components

Note:

- For precise temperature control inside the enclosure, we recommend using the enclosure internal thermostat or the digital enclosure internal temperature display and thermostat.

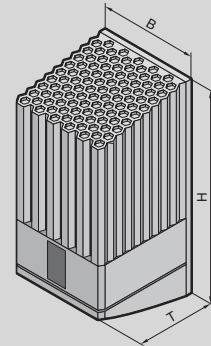
- In order to prevent condensation on the components, the Hygostat is recommended to regulate heating.
- In larger enclosures, even heat distribution is best achieved by installing several low-output heaters
- The installation of heaters is generally advisable in order to prevent condensation.

Approvals:

- UR
- cUR
- CSA

Technical details:

Available on the Internet



Continuous thermal output 802 – 2730 BTU (235 – 800 W), with fan

Model No.	Packs of	3105.410	3105.380	3105.420	3105.390	3105.430	3105.400	Page
Height (H) inches (mm)		8 (200)	8 (200)	8 (200)	8 (200)	8 (200)	8 (200)	
Width (B) inches (mm)		4 (103)	4 (103)	4 (103)	4 (103)	4 (103)	4 (103)	
Depth (T) inches (mm)		4 (103)	4 (103)	4 (103)	4 (103)	4 (103)	4 (103)	
Continuous thermal output at $T_u = 50^\circ\text{F}$ BTU (W)		802/853 (235/250)	853/904 (250/265)	1211/1365 (355/400)	1365/1416 (400/415)	2423/2730 (710/800)	2730/2969 (800/870)	
Rated operating voltage V, ~, Hz		115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	
Pre-fuse A		4	4	6	6	10	6	
Accessories								
Enclosure Internal Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	315
Hygostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	316
Digital Enclosure Internal Temperature Display and Thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	315
Bottom-Mounted Adapter	1 pc(s).	3110.200	3110.200	3110.200	3110.200	3110.200	3110.200	316

Rittal – The System.

Faster – better – everywhere.



Filter mats

for blower fans

Made of chopped-fiber mat with a progressive construction.
Temperature-resistant to 212°F, self-extinguishing category F1 to DIN 53 438.
Dust-laden air side: Open structure.
Clean air side: Closed structure.
Reliable filtering of virtually all types of dust from a particle size of 10 µm.

Material:

- Chemical fibers

For blower fans/front outlet grilles, 2U	H x W x D inches (mm)	Packs of	Model No.
3144.000/3145.000	3 x 17 x 1 (85 x 425 x 8)	5 pc(s).	3177.000



Filter Mats

for

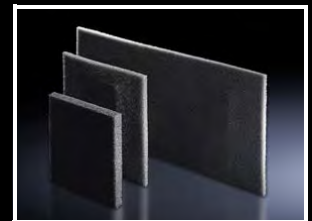
- Cooling units
- Air/air heat exchangers

Cooling units are low-maintenance and are supplied without filter mats. Filter mats may be used for extreme conditions.

Material:

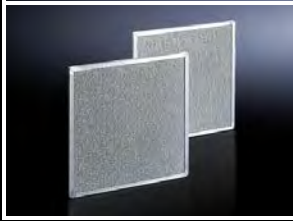
- Open-celled polyurethane foam
- Exceptional physical and mechanical properties
- Temperature-resistant: From -40°F to +176°F
- Thickness: 10 mm

For cooling units	H x W x D inches (mm)	Packs of	Model No.
3302.300/3302.310	4 x 7 x 0.4 (95 x 190 x 10)	3 pc(s).	3286.110
3302.../3303.../3361...	8 x 10 x 0.4 (200 x 265 x 10)	3 pc(s).	3286.300
3304.../3305.../3328.../3329.../3332.../3366...	11 x 14 x 0.4 (268 x 344 x 10)	3 pc(s).	3286.400
3273.../3382.../3383.../3384.../3385.../3359...	10 x 21 x 0.4 (255 x 530 x 10)	3 pc(s).	3286.500
3386.../3387...	12 x 28 x 0.4 (300 x 720 x 10)	3 pc(s).	3286.600
For air/air heat exchangers	H x W x D inches (mm)	Packs of	Model No.
3126.100/3126.115	8 x 10 x 0.4 (200 x 265 x 10)	3 pc(s).	3286.300
3127.100/3127.115/3128.100/3128.115/3129.100/3129.115/3130.100/3130.115	11 x 14 x 0.4 (268 x 344 x 10)	3 pc(s).	3286.400



Climate Control Accessories

Filter Systems



Metal Filters

When cooling units are used in dusty and oily environments, it is advisable to use washable metal filters.

If air or steam condenses on the metal surfaces, any particles present will adhere to the metal. These filters can easily be washed out with water or grease-dissolving solvents.

Material:

- Aluminum
- Thickness: 10 mm

Note:

- For 3334.660, 3335.880 and 3335.890, two metal filters are required

For cooling units	H x W x D inches (mm)	Packs of	Model No.
3302.300/3302.310	4 x 7 x 0.4 (95 x 190 x 10)	1 pc(s).	3286.120
3302.100/3302.110/3302.200/3303. . . /3361. . . .	8 x 10 x 0.4 (200 x 265 x 10)	1 pc(s).	3286.310
3304. . . /3305. . . /3328. . . /3329. . . /3332. . . /3366. . . .	11 x 14 x 0.4 (268 x 344 x 10)	1 pc(s).	3286.410
3273. . . /3382. . . /3383. . . /3384. . . /3385. . . /3359. . . .	10 x 21 x 0.4 (255 x 530 x 10)	1 pc(s).	3286.510
3386. . . /3387. . . .	12 x 28 x 0.4 (300 x 720 x 10)	1 pc(s).	3286.610
For climate control door/section door	H x W x D inches (mm)	Packs of	Model No.
3300.040/3300.050/3300.060/3300.070/3300.080/3300.090/3300.110/3300.120	3 x 17 x 0.4 (78 x 425 x 10)	1 pc(s).	3284.210
For air/air heat exchangers	H x W x D inches (mm)	Packs of	Model No.
3126.100/3126.115	8 x 10 x 0.4 (200 x 265 x 10)	1 pc(s).	3286.310
3127.100/3127.115/3128.100/3128.115/3129.100/3129.115/3130.100/3130.115	11 x 14 x 0.4 (268 x 344 x 10)	1 pc(s).	3286.410
For chillers	H x W x D inches (mm)	Packs of	Model No.
3318.600/3318.610/3319.600/3319.610/3334.660	10 x 21 x 0.4 (255 x 530 x 10)	1 pc(s).	3286.510
3320.600/3334.600	22 x 20 x 0.3 (558 x 500 x 8)	1 pc(s).	3286.520
3335.790/3335.830	32 x 24 x 0.8 (800 x 600 x 20)	1 pc(s).	3286.550
3335.840/3335.850/3335.880	41 x 24 x 0.8 (1050 x 600 x 20)	1 pc(s).	3286.530
3335.860/3335.870/3335.890	41 x 39 x 0.8 (1035 x 1000 x 20)	1 pc(s).	3286.540
3360.100/.250	11 x 14 x 0.4 (268 x 344 x 10)	1 pc(s).	3286.410

Spare Filter Mats

Made of chopped-fiber mat with a progressive construction.
 Temperature resistant to +212°F,
 self-extinguishing category F1 to DIN 53 438.
 Dust-laden air side: Open structure.
 Clean air side: Closed structure.
 Reliable filtering of virtually all types of dust from a particle size of 10 µm.

For thermoelectric coolers	Material	H x W x D inches (mm)	Filter class to DIN EN 779	Packs of	Model No.
3201.200/3201.300	Chemical fibers	4 x 4 x 0.3 (90 x 106 x 8)	G2	5 pc(s).	3201.050
For filter fans	Material	H x W x D inches (mm)	Filter class to DIN EN 779	Packs of	Model No.
3237. . . .	Chemical fibers	4 x 4 ¹⁾ x 0.4 (89 x 89 ¹⁾ x 10)	G2	5 pc(s).	3321.700
				50 pc(s).	3321.705
3238. . . .		5 x 5 x 0.5 (120 x 120 x 12)	G2	5 pc(s).	3322.700
				50 pc(s).	3322.705
3239. . . .		7 x 7 x 0.7 (173 x 173 x 17)	G3	5 pc(s).	3171.100
				50 pc(s).	3171.105
3240. . . ./3241. . . .		9 x 9 x 0.7 (221 x 221 x 17)	G3	5 pc(s).	3172.100
				50 pc(s).	3172.105
3243. . . ./3244. . . ./3245. . . .		11 x 11 x 0.7 (289 x 289 x 17)	G3	5 pc(s).	3173.100
				50 pc(s).	3173.105
For filter holders	Material	H x W x D inches (mm)	Filter class to DIN EN 779	Packs of	Model No.
3175.000	Chemical fibers	10 x 13 x 0.7 (242 x 338 x 17)	G2	3 pc(s).	3174.000
For EMC filter fans	Material	H x W x D inches (mm)	Filter class to DIN EN 779	Packs of	Model No.
3237. . . .	Copper/nickel/ chrome-coated chemical fibers	4 x 4 x 0.4 (92 x 92 x 10)	G2	5 pc(s).	3237.066
3238. . . .		5 x 5 x 0.5 (125 x 125 x 12)	G2	5 pc(s).	3238.066
3239. . . .		7 x 7 x 0.7 (178 x 178 x 17)	G3	5 pc(s).	3239.066
3240. . . ./3241. . . .		9 x 9 x 0.7 (226 x 226 x 17)	G3	5 pc(s).	3240.066
3243. . . ./3244. . . ./3245. . . .		12 x 12 x 0.7 (294 x 294 x 17)	G3	5 pc(s).	3243.066

¹⁾ Octagonal

Fine Filter Mats

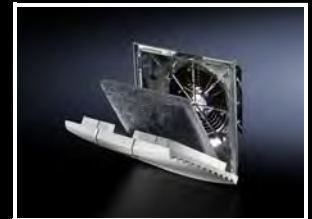
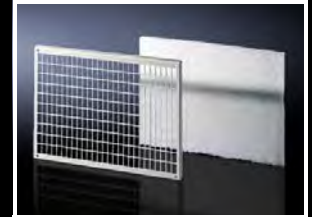
for filter fans

Made of chopped-fiber mat with a progressive construction.
 Temperature resistant to +212°F,
 self-extinguishing category F1 to DIN 53 438.
 Dust-laden air side: Open structure.
 Clean air side: Closed structure.
 Reliable filtering of virtually all types of dust from a particle size below 10 µm.

Material:

– Chemical fibers

For filter fans	H x W x D inches (mm)	Filter class to DIN EN 779	Packs of	Model No.
3238. . . .	5 x 5 x 0.5 (120 x 120 x 12)	F5/M5	5 pc(s).	3238.055
3239. . . .		F5/M5	5 pc(s).	3181.100
3240. . . ./3241. . . .	9 x 9 x 0.5 (221 x 221 x 12)	F5/M5	5 pc(s).	3182.100
3243. . . ./3244. . . ./3245. . . .	11 x 11 x 0.5 (289 x 289 x 12)	F5/M5	5 pc(s).	3183.100



Climate Control Accessories

Filter Systems



Outlet Filters

For ventilation by convection, an outlet filter can be installed in the upper and lower sections of the enclosure.

Material:

- ABS, material resistance to UL 94-5VA

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 54 incl. filter mat

Supply includes:

- Filter mat

Dimensions H x W x D inches (mm)	Model No.	
	Standard	EMC
5 x 5 x 0.6 (116.5 x 116.5 x 16)	3237.200	3237.060
6 x 6 x 0.9 (148.5 x 148.5 x 24)	3238.200	3238.060
8 x 8 x 0.9 (204 x 204 x 24)	3239.200	3239.060
10 x 10 x 1.0 (255 x 255 x 25)	3240.200	3240.060
13 x 13 x 1.0 (323 x 323 x 25)	3243.200	3243.060



Accessories:

- Spare filter mats, see page 307
- Fine filter mats, see page 307
- Hose-proof hood, see page 308
- Blanking cover, see page 308



Hose-Proof Hood

for a higher protection category

Easy cleaning thanks to external, food-safe silicone seal.

Material:

- Stainless steel/carbon steel
- Silicone

Protection category IP to IEC 60 529:

- IP 56 when fitted over a filter fan/outlet filter with filter mat

Protection category NEMA:

- NEMA Type 12 with 3237.080
- NEMA Type 1, 12, 3, 4, 4X with 3238.080, 3239.080, 3240.080, 3243.080
- NEMA Type 1, 12, 3R with 3245.080

Stainless steel

For filter fan/ outlet filter	Dimensions H x W x D inches (mm)	Model No.
3237. . . .	9 x 6 x 2 (230 x 150 x 40)	3237.080
3238. . . .	10 x 7 x 2 (245 x 176 x 55)	3238.080
3239. . . .	13 x 9 x 2 (330 x 233 x 55)	3239.080
3240. . . ./3241. . . .	15 x 11 x 3 (390 x 282 x 85)	3240.080
3243. . . ./3244. . . .	19 x 14 x 4 (480 x 350 x 110)	3243.080
3245. . . .	19 x 14 x 6 (480 x 350 x 160)	3245.080

Carbon steel, RAL 7035

For filter fan/ outlet filter	Dimensions H x W x D inches (mm)	Model No.
3237. . . .	9 x 6 x 2 (230 x 150 x 40)	3237.085
3238. . . .	10 x 7 x 2 (245 x 176 x 55)	3238.085
3239. . . .	13 x 9 x 2 (330 x 233 x 55)	3239.085
3240. . . ./3241. . . .	15 x 11 x 3 (390 x 282 x 85)	3240.085
3243. . . ./3244. . . .	19 x 14 x 4 (480 x 350 x 110)	3243.085



Blanking Cover

If existing mounting cut-outs for filter fans/outlet filters need to be closed to achieve a higher protection category, the filter mat of the filter fan/outlet filter can simply be replaced with a blanking cover; welding or other mechanical modification of the enclosure is not necessary.

Material:

- Closed-cell polyethylene foam

Color:

- Anthracite

Protection category IP to IEC 60 529:

- IP 54

For filter fan/outlet filter	Packs of	Model No.
3237. . . .	2 pc(s).	3237.020
3238. . . .	2 pc(s).	3238.020
3239. . . .	2 pc(s).	3239.020
3240. . . ./3241. . . .	2 pc(s).	3240.020
3243. . . ./3244. . . ./3245. . . .	2 pc(s).	3243.020



Filter Systems

Filter Holder

for roof ventilation

The use of a filter mat is required in order to increase the protection category of the roof vent 3148.007.

Material:

- Carbon steel

Protection category IP to IEC 60 529:

- IP 44

Supply includes:

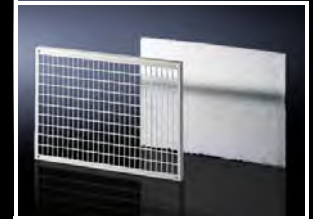
- Filter holder including filter mat

H x W x D inches (mm)	Model No.
10 x 13 x 0.6 (244 x 340 x 15)	3175.000



Accessories:

- Spare filter mat, see page 307



Enclosure Internal Fan

for TS

To prevent hot-spots and support the air routing of active enclosure climate control components. Adjustable in two axes. Mounted on the TS 8 frame section. Several fans can be cascaded using the quick-release terminal strip.

Supply includes:

- Complete unit with radial fan ready for connection
- Snap-on pivot device
- Assembly components

Technical details:

Available on the Internet

Air throughput (unimpeded air flow) cfm (m³/h)	Rated power BTU (W)	Rated current A	Rated voltage V, ~, Hz	Model No.
94 (160)	65/61(19.0/18.0)	0.12/0.11	230, 1~, 50/60	3108.100
94 (160)	65/61(19.0/18.0)	0.24/0.23	115, 1~, 50/60	3108.115
94 (160)	12 (3.5)	0.15	24 V (DC)	3108.024



Mini-Fan

Compact DC fan for housings and component cooling in housings.

Technical specifications:

- Rated operating voltage: 24 V (DC)
- Rated power: 1 W
- Air throughput (unimpeded air flow): 21 m³/h
- Noise pressure level (unimpeded air flow): 20 dB (A)
- Operating temperature range: -4°F...+158°F

Dimensions H x W x D inches (mm)	Packs of	Model No.
2 x 2 x 1 (60 x 60 x 25.4)	1 pc(s).	3236.124

Supply includes:

- Fans
- Assembly screws
- Contact protection guard (2 pcs)



Integrated Louvers

For ventilation by convection, easily retro-fitted using 4 screws.

Material:

- Carbon steel

Color:

- RAL 7035

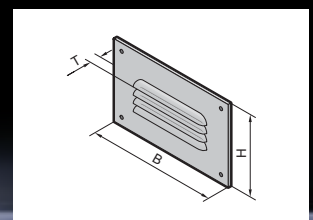
Supply includes:

- Assembly components

H x W x D inches (mm)	Packs of	Model No.
4 x 6 x 1 (110 x 160 x 8)	4 pc(s).	2541.235
4 x 8 x 1 (100 x 210 x 8)	4 pc(s).	2542.235
4 x 13 x 1 (110 x 330 x 8)	4 pc(s).	2543.235

Technical details:

Available on the Internet



Climate Control Accessories

Air Routing



Air Duct System

for roof-mounted variants:

Cooling units and air/water heat exchangers

Cold air can be routed directly to specific areas of the enclosure using the air duct system. This eliminates the risk of air short circuits due to self-ventilated installed devices.

The dimensions of the shallow duct are H x W x D 1500 x 229 x 29 mm, and can be shortened to the required length.

Material:

- Flame-resistant plastic to DIN 4102/B1

Color:

- RAL 7035

Supply includes:

- Shallow duct, compensating hose

Note:

- Do not direct cold air straight at active components
- When using the ducting system, the performance of the cooling unit may be reduced, depending on the application in question



Also required:

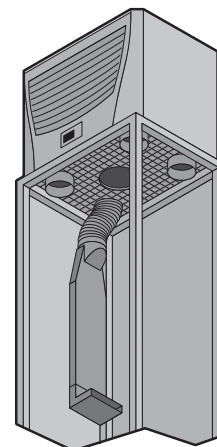
- TS support strips, see page 525
- Air duct adapter 3286.840 (for units 3359. . . / 3382. . .), see page 310



Accessories:

- Deflector 90°, see page 310
- Stoppers, see page 312
- Shallow duct extension, see page 311

For unit	Packs of	Model No.
3209. . . /3210. . . /3273. . . /3359. . . /3382. . . /3383. . . /3384. . . /3385. . .	1 pc(s).	3286.870
3386. . . /3387. . .	1 pc(s).	3286.970



Air Duct Adapter

for air duct system and shallow air duct system

as a connection between the cooling unit (air inlet opening) and the air duct system. Suitable for roof-mounted cooling units 3359.XXX, 3382.XXX.

Material:

- ABS

Color:

- RAL 9005

Packs of	Model No.
1 pc(s).	3286.840

Deflector, 90°

for air duct system

For targeted air deflection at the end of the shallow duct.

Color:

- RAL 7035

Packs of	Model No.
1 pc(s).	3286.990

Shallow Air Duct System

for roof-mounted options:

Cooling unit and air/water heat exchangers suitable for TS 8 enclosures with widths of 800 mm or more and depths of 600 mm or more

Cold air can be routed directly to specific areas of the enclosure using the air duct system. This eliminates the risk of air short circuits due to self-ventilated installed devices.

The dimensions of the shallow duct are H x W x D 1500 x 229 x 29 mm, and can be shortened to the required length.

Material:

- Flame-resistant plastic to DIN 4102/B1

Color:

- RAL 7035

Supply includes:

- Shallow duct
- Adapter
- Compensating piece
- Deflector, 90°

Note:

- Do not direct cold air straight at active components
- When using the ducting system, the performance of the cooling unit may be reduced, depending on the application in question
- Cannot be used in combination with quick-change frame, see page 320



Also required:

- TS support strips, see page 525



Accessories:

- Deflector 90°, see page 310
- Stoppers, see page 312
- Shallow duct extension, see page 311

For unit	Packs of	Model No.
3209.../3210.../3273.../3383.../3384.../3385...	1 pc(s).	3286.850

Shallow Duct Extension

Extension kit for air duct system and shallow air duct system for width, depth or height length extensions in TS 8 enclosures.

Material:

- Flame-resistant plastic to DIN 4102/B1

Packs of	Model No.
1 pc(s).	3286.860

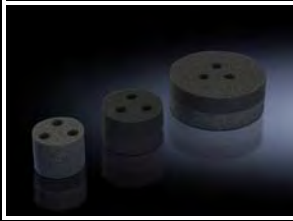
Supply includes:

- Shallow duct 1500 mm
- Connecting piece



Climate Control Accessories

Air Routing



Stoppers

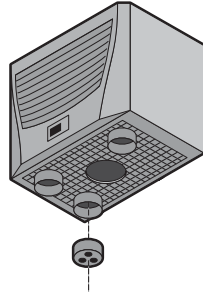
for roof-mounted cooling units and air/water heat exchangers

To cover unneeded cold air outlets.

Material:

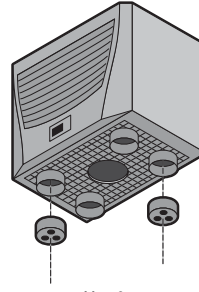
– Polyurethane foam

For units	Diameter inches (mm)	Max. number of stoppers per unit	Packs of	Model No.
3359.../3382....	3 (80)	1	2 pc(s).	3286.780
3209.../3210.../3273.../3383.../3384.../3385....	4 (100)	2	2 pc(s).	3286.880
3386.../3387....	6 (150)	1	2 pc(s).	3286.980



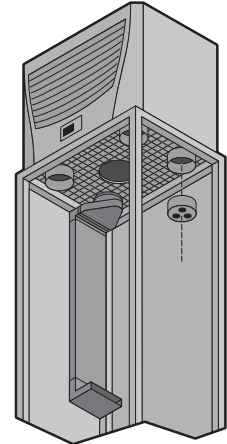
Max. 1 x

3359.../3382.../
3386.../3387....



Max. 2 x

3209.../3210.../3383.../
3384.../3385.../3273....



Air Diverter

For use with wall-mounted cooling units. For targeted air routing of the cold air in a downward direction. Especially well-suited for densely-packed electrical components in the lower section of the enclosure.

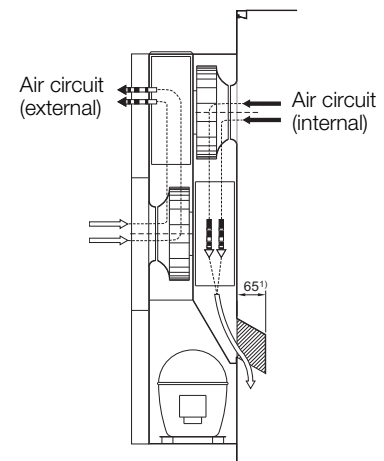
Material:

– Carbon steel

Color:

– RAL 7035

For units	Model No.
3304.../3305....	3213.310
3328.../3329....	3213.320
3332....	3213.330¹⁾



¹⁾ 115 mm with 3213.330

Water Distribution

Electric Condensate Evaporator

For external mounting on enclosures. For use with all cooling units and air/water heat exchangers (wall-mounted).
Compatible with multiple voltages for international use.

Evaporation performance:

- At 230 V: 3.5 l/d
- At 115 V: 3.0 l/d

Color:

- RAL 7035

Supply includes:

- Electric condensate evaporator, ready to connect

Width inches (mm)	Rated operating voltage V, ~, Hz	Model No.
11 (280)	115 – 230, 1~, 50/60	3301.500
16 (400)	115 – 230, 1~, 50/60	3301.505

Technical details:

Available on the Internet



Condensate Collecting Bottle

For mounting on the enclosure. For use with all cooling units and air/water heat exchangers.

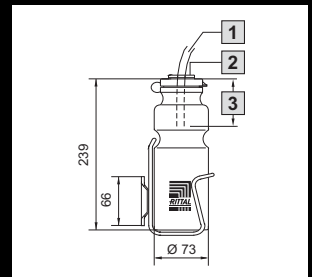
- Safety overflow at the side
- Capacity approximately 0.75 l

- 1** Condensate drain hose
- 2** Membrane grommet
- 3** Max. 70 mm

Packs of	Model No.
1 pc(s).	3301.600

Supply includes:

- Condensate collecting bottle
- Bottle holder
- Mounting accessories



Condensate Hose

For the discharge and transfer of condensate. For connecting to cooling units and air/water heat exchangers.

Material:

- PVC, transparent

For units	Hose length inches (m)	Material thickness Ø mm	Model No.
3201. . . .	196 (5)	6 x 1	3301.606
3212. . . ./3302. . . ./3303. . . ./3361. . . .	394 (10)	10 x 1.5	3301.610
3209. . . ./3210. . . ./3214.100/3215.100/3216.480/3273. . . ./3304. . . ./3305. . . ./3328. . . ./3329. . . ./3332. . . ./3359. . . ./3363. . . ./3364. . . ./3366. . . ./3373. . . ./3374. . . ./3375. . . ./3377. . . ./3378. . . ./3382. . . ./3383. . . ./3384. . . ./3385. . . ./3386. . . ./3387. . . ./	394 (10)	12 x 2	3301.612



Climate Control Accessories

Water Distribution



Flow Regulator Valve

For use with air/water heat exchangers, especially if more than one heat exchanger ($n > 1$) is used in the cooling water circuit. The correctly set valve ensures the same quantity of cooling medium for all equipment. The valve is also used for hydraulic balancing.

Setting range:

– 3 to 12 l/min

Material:

– Brass

Version	Packs of	Model No.
$\frac{3}{4}$ " x $\frac{1}{2}$ " for volume flow control	1 pc(s).	3301.930
$\frac{3}{4}$ " x $\frac{3}{4}$ " for volume flow control	1 pc(s).	3301.940



Fitting G $\frac{3}{8}$ "

The G $\frac{3}{8}$ " internal threaded adapter can be used to create fixed piping on the air/water heat exchanger for both the inlet and return.

Material:

– Brass

For air/water heat exchangers	Version	Packs of	Model No.
3209. . . /3210. . . / 3363. . . /3364. . . / 3373. . . /3374. . . / 3375. . . .	G $\frac{3}{8}$ " Internal thread	2 pc(s).	3201.900



Cooling Medium for chillers

Ready-mixed

Chillers – with the exception of chillers for oil and emulsion – are exclusively suitable for cooling water or a water-glycol mixture.

As well as protecting against frost, this cooling medium also serves to inhibit bacterial growth and provide optimum corrosion protection.

Supply includes:

- 10 l canister
- 25 l canister

Cooling medium	Antifreeze/ water mixture	Container gallons (l)	Model No.
Outdoor	1 : 2	2.64 (10)	3301.950
		6.6 (25)	3301.955
Standard	1 : 4	2.64 (10)	3301.960
		6.6 (25)	3301.965

Digital Enclosure Internal Temperature Display and Thermostat

For installation in the enclosure door or wall.

Technical specifications:

- 2 voltage ranges for 100 – 230 V, 50/60 Hz and 24 – 60 V (DC)
- Depth: 100 mm
- Three-digit, 7-segment display
- Option of switching between °C/°F
- Temperature range: +41°F...+131°F
- With 1.80 m long NTC sensor
- Two relay outputs as change-over contact and normally open contact (max. contact load 230 V, 6 A)
- Freely selectable switching hysteresis
- The freely selectable setpoints can be adjusted using the membrane keyboard on the front, setting range: +41°F...+131°F

Packs of	Model No.
1 pc(s).	3114.200

- Display and switching accuracy ± 2 K
- The minimum and maximum recorded temperatures are stored until it is reset

Color:

- RAL 7035



Digital Enclosure Internal Temperature Display and Thermostat

Integrated into a patch panel 1 U

Including cable attachment for connection cable and label holder.

Technical specifications:

- 2 voltage ranges for 100 – 230 V, 50/60 Hz and 24 – 60 V (DC)
- Depth: 100 mm
- Three-digit, 7-segment display
- Option of switching between °C/°F
- Temperature range: +41°F...+131°F
- With 1.80 m long NTC sensor
- Two relay outputs as change-over contact and normally open contact (max. contact load 230 V, 6 A)
- Freely selectable switching hysteresis
- The freely selectable setpoints can be adjusted using the membrane keyboard on the front, setting range: +41°F...+131°F

Packs of	Model No.
1 pc(s).	7109.035

- Display and switching accuracy ± 2 K
- The minimum and maximum recorded temperatures are stored until it is reset

Color:

- RAL 7035



Enclosure Internal Thermostat

Suitable for controlling filter fan units, heaters and heat exchangers. This thermostat can also be used as a signal generator for monitoring the internal enclosure temperature.

Technical specifications:

- Bi-metal controller as a temperature-sensitive element with thermal feedback
- Contact population: Single-pole change-over contact as a quick-break contact
- Permissible contact load:
Category 5 – 3 (heating)
AC 10 (4)¹⁾ A,
DC = max. 30 W
Category 5 – 4 (cooling)
AC 5 (4)¹⁾ A,
DC = max. 30 W
¹⁾ = Inductive load at $\cos \phi = 0.6$
- Setting range: +41°F...+140°F
- Weight: approx. 105 g
- Dimensions: 71 x 71 x 33.5 mm
- Switching hysteresis: approx. 1 K $\pm$ 0.8 K

Rated operating voltage V, ~	Model No.
230, 115, 1~, 60, 48, 24 60/48/24 (DC)	3110.000

- Flexible mounting on a vertical or horizontal 35 mm support rail to EN 50 022, snap fastening in the TS/SE enclosure section or on the mounting plate using the supplied adapter

Color:

- RAL 7035



Accessories:

- Bottom-mounted adapter, see page 316



Climate Control Accessories

Control/Regulation



Hygrostat

The hygrostat switches on the heater and/or fan when a preset relative humidity in the enclosure is exceeded.

The relative humidity is raised above the dew point and condensation on assemblies or electronic components is avoided.

Technical specifications:

- Contact population: Single-pole change-over contact as a quick-break contact
- Permissible contact load:
 - AC ~ 5 (0.2)¹⁾ A
 - DC = max. 20 W
 - ¹⁾ = Inductive load at $\cos \phi = 0.6$
- Setting range: 50 – 100% relative humidity
- Weight: approx. 100 g
- Dimensions: 71 x 71 x 33.5 mm
- Switching hysteresis: approx. 4%
- Flexible mounting on a vertical or horizontal 35 mm support rail to EN 50 022, snap fastening in the TS/SE enclosure section or on the mounting plate using the supplied adapter

Rated operating voltage V, ~	Model No.
24 – 230, 1~ 12 – 75 (DC)	3118.000

Color:

- RAL 7035



Accessories:

- Bottom-mounted adapter, see page 316



Bottom-Mounted Adapter

for enclosure internal thermostat 3110.000 and hygrostat 3118.000

Bottom-mounted adapter with mounting option for screwed cable glands, for targeted cable infeed from appropriate equipment such as filter fan units and enclosure heaters. In conjunction with screwed cable glands, it also provides strain relief.

Color:

- RAL 7035

Packs of	Model No.
1 pc(s).	3110.200



Speed Control EC

Control unit

Temperature-dependent speed control for EC filter fans to reduce noise and save energy. The fan function can also be monitored.

- Activation and monitoring of up to 4 EC filter fans (Caution: EC filter fans are not compatible with speed control 3120.200!)
- Rated operating voltage: 100 – 250 V
- Mounted on top-hat rail
- Temperature setting range: 41°F...131°F
- External temperature sensor for monitoring the actual temperature
- Status LED for displaying the operating condition
- Alarm relay for signaling overtemperature, fan fault, line disconnection and sensor failure

For EC filter fans	Model No.
3240.500/3241.500/3243.500/ 3244.500/3245.XXX	3235.440

Supply includes:

- NTC sensor, length 1.80 m

Speed Control EC

Speed control sensor

NTC sensor for the temperature-dependent speed control of EC filter fans to reduce noise and save energy. Controlled via an EC filter fan.

Technical specifications:

- Rated voltage: 10 – 12 V (DC)
(supplied via EC filter fan)
- Input current: 1 mA
- Output current: 0.1 mA
- Operating temperature range: -13°F...+176°F
- Cable length: 3 m
- Control characteristic: Fixed setpoint at 95°F, with linear control range between +95°F (maximum speed 100%) and +68°F (minimum speed 10%)

For EC filter fans	Model No.
3240.500/3241.500/3243.500/ 3244.500/3245.XXX	3235.450

Protection category IP to IEC 60 529:

- IP 40

Supply includes:

- Sensor and cable (length 3 m)



Speed Control

Temperature-dependent speed control for filter fans, air/air heat exchangers, rack-mounted fans and blower fans to reduce noise and save energy in part-load operation.

Technical specifications:

- For mounting on a 35 mm support rail
DIN EN 50 022
- Dimensions (H x W x D): 90.5 x 105 x 60.2 mm
- Rated operating voltage: 100 – 230 V (AC)
- Setting range: +68°F...+131°F
- Phase cross-over with microcontroller
- Maximum fan output 300 W or 2 A

Packs of	Model No.
1 pc(s).	3120.200

Supply includes:

- Speed control
- NTC sensor, length 1.80 m

Note:

- Only suitable for use with single-phase AC motors and equipment
- Not suitable for EC motors



Interface Board

for units with an e-Comfort controller

The interface board is an extension for cooling units with an e-Comfort controller. In this way it is possible, e.g. to monitor a master/slave combination of up to 10 cooling units. Control is achieved via standardized interfaces: RS232 (DB9) or RS485, one PLC interface (DB9). The extension board is built into a 1 U plastic housing.

A voltage supply of 24 V (DC) is required. This can be provided from an external source via a Kycon connector.

Packs of	Model No.
1 pc(s).	3124.200

Supply includes:

- Interface board integrated into plastic box
H x W x D: 44 (1 U) x 136 x 129
- Serial SUB-D cable, 1.50 m

Technical details:

Available on the Internet



Control/Regulation

SK BUS System

Master/slave cable

The SK BUS system is used to enable communication between multiple cooling units and air/water heat exchangers with an e-Comfort controller. Based on a master/slave set-up similar to that required in complex bayed enclosure systems for optimum operating conditions.

Technical description:

- The master-slave configuration facilitates common activation and deactivation via door limit switches, parallel activation and deactivation via a temperature setpoint, and common collective fault signals and temperature logging, thereby eliminating the need for intricate wiring.

For cooling units and air/water heat exchangers	Model No.
	3124.100

Supply includes:

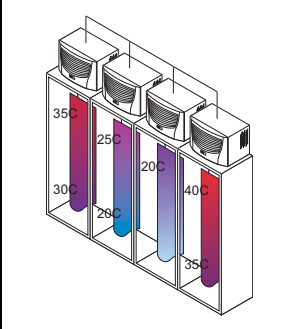
- 3 m shielded interface cable
- Operating instructions for programming the cooling units

Note:

- $n_B = n_K - 1$
- n_B : Number of order units (SK bus system)
- n_K : Number of cooling units to be linked

Technical details:

Available on the Internet



SK BUS System

Master/slave adapter

Parallel operation of up to 5 thermoelectric coolers for increased cooling output or for redundancy.

Supply includes:

- Adapter incl. master connection cable
- Assembly components

For thermoelectric coolers	Model No.
3201.200/3201.300	3201.070



Also required:

- CAN bus connection cable, 1 x RJ 45 per slave, see page 371



Toroidal Transformer

Primary connection 115 V/400 V

Technical specifications:

- Power 110 VA
- Primary connection 3500 mm long
- Secondary connection 1500 mm long
- Dimensions H x W x D: 123 x 105 x 55 mm
- For mounting on a 35 mm support rail DIN EN 50 022
- Voltage tolerance $\pm 10\%$

Supply includes:

- Assembly components for mounting on top-hat rail

For air/water heat exchangers	Primary connection V, 1~, Hz	Secondary connection V, 1~, Hz	Model No.
3363.X0X 3364.X0X 3214.100 3215.100	115, 1~, 50/60	230, 1~, 50/60	3201.970
3363.X0X 3364.X0X 3212.230 3214.100 3215.100	400, 2~, 50/60	230, 1~, 50/60	3201.960

Mounting Accessories

Roof Plates TS

For mounting:

- Roof-mounted cooling units
- Air/water heat exchangers
- Roof-mounted fans
- Vent attachment TS

The cut-outs in the roof plate are arranged so that the roof-mounted cooling units are centered on the enclosure.

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Assembly components

For enclosures W x D inches (mm)	For mounting	B1 inches (mm)	B2 inches (mm)	T1 inches (mm)	T2 inches (mm)	T3 inches (mm)	Model No.
32 x 24 (800 x 600)	3382.../3359.../3149.4.../3149.8...	30 (767.5)	19 (475)	22 (567.5)	10 (260)	5 (129.3)	8801.320
24 x 24 (600 x 600)	3209.../3383.../3210.../3384.../3273.../3385.../8801.380	22 (567.5)	19 (490)	22 (567.5)	15 (390)	2 (61.3)	8801.310¹⁾
32 x 24 (800 x 600)		30 (767.5)	19 (490)	22 (567.5)	15 (390)	2 (61.3)	8801.330
47 x 24 (1200 x 600)		46 (1167.5)	19 (490)	22 (567.5)	15 (390)	2 (61.3)	8801.350
32 x 24 (800 x 600)	3386.../3387...	30 (767.5)	27 (692)	22 (567.5)	15 (392)	2 (57.8)	8801.340²⁾

¹⁾ When mounting the cooling units, there may be a collision with the transportation eyebolts of the enclosure; for this reason, roof mounting screws are supplied loose with the roof plates

²⁾ Attachment is from the inside using metal brackets and retaining clamps

Vent Attachment TS

For passive ventilation with complicated air flow routing, to match the roofs for roof-mounted cooling units.

Color:

- RAL 7035

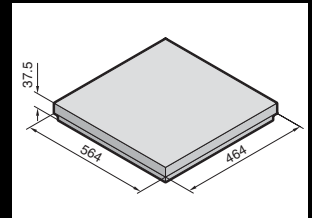
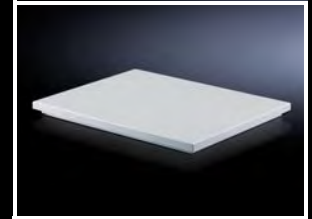
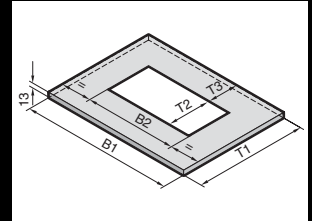
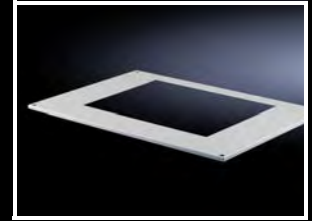
Protection category IP to IEC 60 529:

- IP 43

Supply includes:

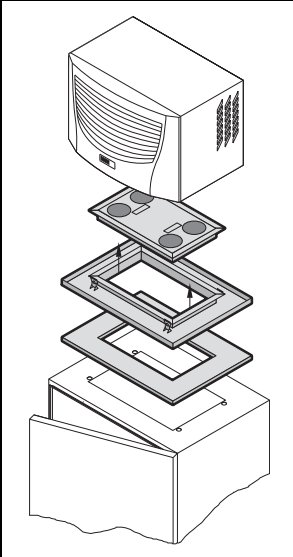
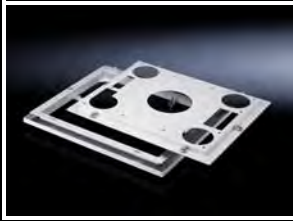
- Assembly components

For roof plates with cut-out inches (mm)	Model No.
19 x 15 (490 x 390)	8801.380



Climate Control Accessories

Mounting Accessories



Quick-Change Frame

for roof-mounted cooling units

The quick-change frame is more than just an alternate frame. Together with the seal, the lower part of the frame is screw-fastened to the enclosure. In this way, it is possible to install and remove the plug-in cooling unit with the upper part of the alternate frame previously mounted on the cooling unit with quick-release fasteners. During servicing work, this means shorter assembly times and so minimized downtime. Thanks to its integral drainage trough, the quick-change frame offers effective protection from the ingress of oil into the enclosure in oily environments.

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Quick-change frame
- Seal
- Quick-release fasteners

For roof-mounted cooling units	Model No.
3359. . . /3382. . .	3286.700

Guide Frame

For Vario rack-mounted fan

Supply includes:

- Connector and fitted connection cable (3 m)
- Mounting bracket for optional attachment to the 19" (482.6 mm) design
- Assembly components

For Vario rack-mounted fan	Model No.
3350.230/3351.230/3352.230	3355.100
3352.500	3357.100

Therm Software

The Therm software package calculates all the climate control requirements. A user-friendly interface guides the operator to the most suitable, correctly dimensioned climate control component. All evaluations are closely based on the requirements of IEC/TR 60 890 AMD 1/02.95 and DIN 3168 for cooling units.

Therm is a calculation program for enclosure climate control

- Improved user guidance via tabs and simple selection menus
- Express and expert versions
- Configurator for recooling systems
- Heat loss calculator
- Internet updates
- Fast and thorough determination of climate control requirements
- Easy calculation of the required actual cooling output, as well as any upgrades or enhancements to the switchgear
- Documentation after calculation

Supply includes:

- CD-ROM, in 19 languages

Note:

- A quick version of the Therm software is available as a free app

Note:

Download from the Rittal website



RiDiag II

For the diagnosis, maintenance and long-term data capture of TopTherm units with an e-Comfort controller. RiDiag logs equipment data and prepares an error list. RiDiag also offers the option of displaying and setting the device's operating parameters. The logging of measurement data can be tracked in real time in the form of a diagram.

Supply includes:

- CD-ROM, in 6 languages
- Connection cable

Packs of	Model No.
1 pc(s).	3159.100



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Courtesy of Steven Engineering, Inc. (800) 258-9200 sales@steveneng.com www.steveneng.com

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for data centre

Rittal opens up new horizons in the world of IT. From the RiMatrix S standardized data center module to efficient individual components.

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- Rittal – modular, standardized data centers with RiMatrix S
- Rittal – system components for individual IT solutions



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- IT Enclosure Systems
- IT Housing
- IT Power
- IT Cooling
- IT Monitoring
- IT Security Solutions



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- RiMatrix S – mass-produced data center in tested and pre-certified modules
- IT security rooms – certified to ECB-S



IT INFRASTRUCTURE

SOFTWARE & SERVICES



Your Benefits with RiMatrix

With unique IT system solutions from Rittal, you benefit from modern data center infrastructures. Choose any standardized components from our range of RiMatrix system components: IT Enclosure Systems/Housings, IT Power, IT Cooling, IT Monitoring and IT Security Solutions. The IT infrastructure can be precisely adapted to meet your needs – leaving plenty of flexibility for future expansion.

Faster – Precise-fit data center infrastructures with “Rittal – The System.”

Better – Standardized, coordinated system components

Everywhere – Commissioning by our international service engineers



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL



IT INFRASTRUCTURE

SOFTWARE & SERVICES



Your Benefits with RiMatrix S

RiMatrix S is the revolutionary alternative in data center construction. Standardized data center infrastructures are created on the basis of pre-configured, complete data center modules. The data center modules already contain all the essential components, such as IT enclosure systems, power back-up and distribution, cooling, monitoring and security solutions. All the data center modules are prefabricated and available off the shelf, which allows specifically customized solutions to be quickly compiled.

Faster – Prefabricated data center modules available off the shelf

Better – Tested, pre-certified data center modules with outstanding efficiency

Everywhere – Installation in system-tested security rooms, standard aisle containments or containers



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL



IT INFRASTRUCTURE

SOFTWARE & SERVICES





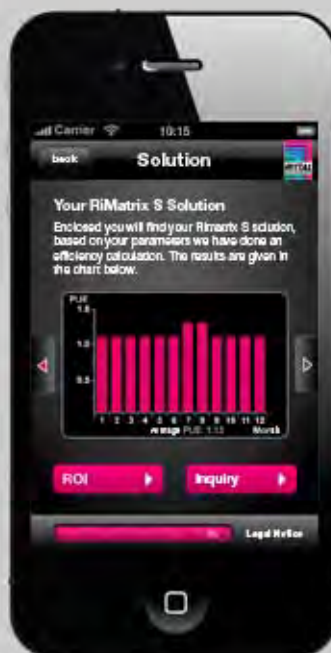
RiMatrix S

RiMatrix S

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Your Benefits

- Standardized data center infrastructures based on data center modules
- Tested and pre-certified modules with outstanding efficiency
- Simplified planning thanks to pre-configuration
- Simplified service and administration processes



RiMatrix S App

Your configurator for standardized data centers for SMEs, branch concepts and flexible cloud applications. An intuitive user interface will guide you to your complete data center in just five steps.

RiMatrix S at a Glance



	Standard Room				
	Integration of RiMatrix S modules into an existing property. In order to achieve optimum air routing, precise-fit aisle containment is included with the supply.		Aisle containment is a combination of door and roof components which facilitate consistent separation of the hot and cold air. – Enhanced energy efficiency – Superior output density, due to guaranteed cold air supply – Dust- and watertight in the protected area above the raised floor, IP 20 to IEC 60 529 Note: – Configurations based on European standards. Contact Rittal Customer Service for North American versions.		
	Single 6	Double 6	Single 9	Double 9	
Model No.	7998.106	7998.107	7998.406	7998.407	
Fire protection	–				
Burglar resistance	–				
Acrid gas-tightness	–				
Water and dust protection	–				
Early fire detection	■				
Room extinguisher system	optional				optional
Humidification and dehumidification system	optional				optional
External dimensions					
Height inches (mm)	108 (2750)	108 (2750)	108 (2750)	108 (2750)	
Width inches (mm)	111 (2828)	191 (4854)	111 (2828)	191 (4854)	
Depth inches (mm)	279 (7080)	279 (7080)	279 (7080)	279 (7080)	
Rack configuration					
Server enclosure 79 x 24 x 47" (2000 x 600 x 1200 mm)	6 pc(s).	12 pc(s).	8 pc(s).	16 pc(s).	
Combined network/server enclosure 79 x 32 x 47" (2000 x 800 x 1200 mm)	1 pc(s).	2 pc(s).	1 pc(s).	2 pc(s).	
Uninterruptible power supply (partner product, see note on page 343)	204729 BTU (60 kW) + 68243 BTU (20 kW)	2 x 204729 BTU (60 kW) + 2 x 68243 BTU (20 kW)	–	–	



Security rooms				Container		
Standard Security Room – Fire resistance EI 90 to EN 1363 / F 90 to DIN 4102 – Protection from unauthorized access – Resistance Class II to DIN V ENV 1630 – Basic EMC protection – Acrid-gas tightness based on DIN 18 095 – Impact test with 3,000 Nm energy after 30 mins. flame impingement over standard temperature curve – Dust- and watertight to IP 56 to EN 60 529 Note: – Products based on European standards. Contact Rittal Customer Service for North American versions		Construction of the standard security room – Element core made from thermally effective insulating material – Robust, encapsulated carbon steel cassette panels – Innovative connection system using patented profile technology – Use of temperature- and humidity-resistant seals – Use of climate control valves with electro-magnetic drive – Dismantling and reassembly are possible at any time		Standard Container Robust carbon steel container specifically designed for IT applications. The reinforced frame structure allows optimum weight distribution. Housed interior wall structure with thermal insulating materials. – Vandal-proof interior in accordance with Resistance Class II to DIN EN 1630 – Fire protection category EI 30 to EN 1363 – Basic EMC protection – Dust- and watertight to IP 55 to EN 60 529 Note: – Product based on European standards. Contact Rittal Customer Service for North American versions		
Single 6	Double 6	Single 9	Double 9	Single 6	Single 9	
7998.306	7998.307	7998.606	7998.607	7998.206	7998.506	
EI 90/F90				EI 30		
WK II				RC II		
■				–		
IP 56				IP 55		
■				■		
optional				optional		
optional				optional		
110 (2800)	110 (2800)	110 (2800)	110 (2800)	118 (3000)	118 (3000)	
116 (2950)	196 (4974)	116 (2950)	196 (4974)	118 (3000)	118 (3000)	
295 (7500)	295 (7500)	295 (7500)	295 (7500)	285 (7250)	285 (7250)	
6 pc(s).	12 pc(s).	8 pc(s).	16 pc(s).	6 pc(s).	8 pc(s).	
1 pc(s).	2 pc(s).	1 pc(s).	2 pc(s).	1 pc(s).	1 pc(s).	
204729 BTU (60 kW) + 68243 BTU (20 kW)	2 x 204729 BTU (60 kW) + 2 x 68243 BTU (20 kW)	–	–	204729 BTU (60 kW) + 68243 BTU (20 kW)	–	



RiMatrix S Single 6/Double 6

- 6 server enclosures, 1 network enclosure
- 2 separate, optimized climate zones for server and technology sections
- UPS, battery case and distribution enclosure
- Space-saving climate control in the raised floor

- Consistent separation of cold air intake and hot waste air integrated into the mechanical concept
- Cable routing above the racks
- In the Double 6, the second module is a mirror image with an integral cold aisle

RiMatrix S Single 9/Double 9

- 8 server enclosures, 1 network enclosure
- 1 climate zone for the server section
- When using a pre-existing UPS
- Distribution enclosure
- Space-saving climate control in the raised floor

- Consistent separation of cold air intake and hot waste air integrated into the mechanical concept
- Cable routing above the racks
- In the Double 9, the second module is a mirror image with an integral cold aisle

Note:

- Product based on European standards. Contact Rittal Customer Service for North American versions

Standard Room

		Single 6	Double 6	Single 9	Double 9
External dimensions inches (mm)	Height	108 (2750)	108 (2750)	108 (2750)	108 (2750)
	Width	111 (2828)	191 (4854)	111 (2828)	191 (4854)
	Depth	279 (7080)	279 (7080)	279 (7080)	279 (7080)
Internal dimensions inches (mm)	Height	106 (2700)	106 (2700)	106 (2700)	106 (2700)
	Width	108 (2750)	188 (4774)	108 (2750)	188 (4774)
	Depth	276 (7000)	276 (7000)	276 (7000)	276 (7000)
Model No.		7998.106	7998.107	7998.406	7998.407
Physical security					
Fire protection		–			
Burglar resistance		–			
Acrid gas-tightness		–			
Water and dust protection		–			
Early fire detection		■			
Room extinguisher system		optional			
Humidification and dehumidification system		optional			
Infrastructure					
Server enclosure 79 x 24 x 47" (2000 x 600 x 1200 mm)		6 pc(s).	12 pc(s).	8 pc(s).	16 pc(s).
Combined network/server enclosure 79 x 32 x 47" (2000 x 800 x 1200 mm)		1 pc(s).	2 pc(s).	1 pc(s).	2 pc(s).
Uninterruptible power supply		204729 BTU (60 kW) + 68243 BTU (20 kW)	2 x (204729 BTU (60 kW) + 2 x 68243 BTU (20 kW)	–	–
Redundancy		1 x 68243 BTU (20 kW)	2 x 68243 BTU (20 kW)	–	–
Min. autonomy		13 minutes			
Low-voltage main distributor		1 pc(s).	2 pc(s).	1 pc(s).	2 pc(s).
PDU Basic		14 pc(s).	28 pc(s).	18 pc(s).	36 pc(s).
Climate control (ZUCS)		204729 BTU (60 kW) + 34121 BTU (10 kW)	409457 BTU (120 kW) + 68243 BTU (20 kW)	307093 BTU (90 kW) + 34121 BTU (10 kW)	614186 BTU (180 kW) + 68243 BTU (20 kW)
Redundancy		n+1	n+2	n+1	n+2



RiMatrix S Single 6/Double 6

- 6 server enclosures, 1 network enclosure
- 2 separate, optimized climate zones for server and technology sections
- UPS, battery case and distribution enclosure
- Space-saving climate control in the raised floor

- Consistent separation of cold air intake and hot waste air integrated into the mechanical concept
- Cable routing above the racks
- In the Double 6, the second module is a mirror image with an integral cold aisle

RiMatrix S Single 9/Double 9

- 8 server enclosures, 1 network enclosure
- 1 climate zone for the server section
- When using a pre-existing UPS
- Distribution enclosure
- Space-saving climate control in the raised floor

- Consistent separation of cold air intake and hot waste air integrated into the mechanical concept
- Cable routing above the racks
- In the Double 9, the second module is a mirror image with an integral cold aisle

Note:

- Product based on European standards. Contact Rittal Customer Service for North American versions

Standard Security Room

		Single 6	Double 6	Single 9	Double 9
External dimensions inches (mm)	Height	110 (2800)	110 (2800)	110 (2800)	110 (2800)
	Width	116 (2950)	196 (4974)	116 (2950)	196 (4974)
	Depth	295 (7500)	295 (7500)	295 (7500)	295 (7500)
Internal dimensions inches (mm)	Height	106 (2700)	106 (2700)	106 (2700)	106 (2700)
	Width	108 (2750)	188 (4774)	108 (2750)	188 (4774)
	Depth	287 (7300)	287 (7300)	287 (7300)	287 (7300)
Model No.		7998.306	7998.307	7998.606	7998.607
Physical security					
Fire protection		EI 90/F90			
Burglar resistance		WK II			
Acrid gas-tightness		■			
Water and dust protection		IP 56			
Early fire detection		■			
Room extinguisher system		optional			
Humidification and dehumidification system		optional			
Infrastructure					
Server enclosure 79 x 24 x 47" (2000 x 600 x 1200 mm)		6 pc(s).	12 pc(s).	8 pc(s).	16 pc(s).
Combined network/server enclosure 79 x 32 x 47" (2000 x 800 x 1200 mm)		1 pc(s).	2 pc(s).	1 pc(s).	2 pc(s).
Uninterruptible power supply		204729 BTU (60 kW) + 68243 BTU (20 kW)	2 x 204729 BTU (60 kW) + 2 x 68243 BTU (20 kW)	–	–
Redundancy		1 x 68243 BTU (20 kW)	2 x 68243 BTU (20 kW)	–	–
Min. autonomy		13 minutes			
Low-voltage main distributor		1 pc(s).	2 pc(s).	1 pc(s).	2 pc(s).
PDU Basic		14 pc(s).	28 pc(s).	18 pc(s).	36 pc(s).
Climate control (ZUCS)		204729 BTU (60 kW) + 34121 BTU (10 kW)	409457 BTU (120 kW) + 68243 BTU (20 kW)	307093 BTU (90 kW) + 34121 BTU (10 kW)	614186 BTU (180 kW) + 68243 BTU (20 kW)
Redundancy		n+1	n+2	n+1	n+2



RiMatrix S Single 6/Double 9

The RiMatrix S solution is assembled in the container, then commissioned and tested in accordance with our guidelines.

Our services include:

- Advice and ROI calculation
- Delivery and integration into the customer infrastructure
- Commissioning and handover
- Documentation, training, instruction
- Hotline and service/service agreements

Supply includes:

- Complete technical documentation of all components and works, together with the relevant user manuals

Note:

- Product based on European standards. Contact Rittal Customer Service for North American versions

Standard Container

		Single 6	Single 9
External dimensions inches (mm)	Height	118 (3000)	118 (3000)
	Width	118 (3000)	118 (3000)
	Depth	285 (7250)	285 (7250)
Internal dimensions inches (mm)	Height	106 (2685)	106 (2685)
	Width	108 (2750)	108 (2750)
	Depth	276 (7000)	276 (7000)
Model No.		7998.206	7998.506
Physical security			
Fire protection		EI 30	
Burglar resistance		RC II	
Acrid gas-tightness		–	
Water and dust protection		IP 55	
Early fire detection		■	
Room extinguisher system		optional	
Humidification and dehumidification system		optional	
Infrastructure			
Server enclosure 79 x 24 x 47" (2000 x 600 x 1200 mm)		6 pc(s).	8 pc(s).
Combined network/server enclosure 79 x 32 x 47" (2000 x 800 x 1200 mm)		1 pc(s).	1 pc(s).
Uninterruptible power supply		204729 BTU (60 kW) + 68243 BTU (20 kW)	–
Redundancy		1 x 68243 BTU (20 kW)	–
Min. autonomy		13 minutes	
Low-voltage main distributor		1 pc(s).	2 pc(s).
PDU Basic		14 pc(s).	18 pc(s).
Climate control (ZUCS)		204729 BTU (60 kW) + 34121 BTU (10 kW)	307093 BTU (90 kW) + 34121 BTU (10 kW)
Redundancy		n+1	n+1

Rittal – The System.

Faster – better – everywhere.

A standardized data center. Simply plug in and you're ready to go.



RiMatrix S Selector

Your solution is configured on the basis of standardized data center modules.

- The planning phase, delivery and commissioning times are significantly shortened
- An accurate efficiency calculation (including consumption figures) is always included as part of our consulting service, based on the data sheet
- Standardization leads to significant potential savings
- The data center modules are complete functional units (including power, cooling supply and monitoring)
- The modules are comprehensively measured, meaning they have a data sheet and can be ordered off the shelf by means of an item number

Further information is available on the Rittal website



RiMatrix S App

Your configurator for standardized data centers for SMEs, branch concepts and flexible cloud applications.

An intuitive user interface will guide you to your complete data center in five easy steps:

1. Requirements and constraints
2. Technical specifications
3. Standardized module selection
4. Optional packages
5. Your RiMatrix S solution



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



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TS IT Network/Server Enclosures

TS IT with Vented Door for Room Climate Control	90
TS IT with Glazed Door for Rack Climate Control	92

Distributor Rack

Data Rack	94
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IT Housing

VerticalBox	95
FlatBox with 19" Profile Rails	96
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EL Wall-Mounted Housing, 3-Part, Pre-Configured with Profile Rails	98
EL Wall-Mounted Housing, 3-Part, with Punched Rails and Profile Rails	99
EL Wall-Mounted Housing, 3-Part, with Mounting Plate and Profile Rails	100
AE Wall-Mounted Housing with 19" Profile Rails	102

Your Benefits

Network/Server Enclosures

- Individually usable for stand-alone installation and data centers
- Complete system solutions for small to large networks
- Maximum configuration diversity and protection for installed equipment
- Flexibility and investment protection, thanks to simple conversions and the use of our extensive modular system

Wall-Mounted Housing

- Choose from an extensive range of products – the right housing to suit all applications – up to protection category IP 66
- Many sizes available, from 3 U to 21 U
- A wide choice of accessories, with "Rittal – The System."
- Fast assembly, conversion and simple installation based on the modular principle



Application examples

- 1 EL wall-mounted housing, see page 98
- 2 VerticalBox, see page 95
- 3 AE wall-mounted housing with 19" profile rails, see page 102
- 4 TS IT with glazed door for rack climate control, see page 92, base/plinth and installation accessories, see page 421
- 5 TS IT with vented door for room climate control, see page 90, bayed with base/plinth and installation accessories, see page 421

Rittal – The System.

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Power Distribution Unit

Basic PDU	344
Metered PDU	344
Smart PDU	345

Your Benefits

- Holistic and systematic energy management concepts
- Comprehensive and complete solutions for energy distribution and back-up, consistently modular with the flexibility for expansion at any time
- Ultimate energy and cost efficiency with maximum availability of the overall system
- Reduced installation, administration and manpower costs
- High level of investment security
- All from a single source



Application examples

- 1 Power Distribution Rack, PDR
- 2 Power Distribution Module, PDM
- 3 Power System Module, PSM
- 4 Power Distribution, see page 189
- 5 UPS

Power Distribution Unit



Power Distribution Unit (PDU)

Basic, Metered, and Smart

High density computing power requirements continue to increase, creating heat expansion and more challenges for managing the IT environment.

To maintain their competitive advantage, data center managers need SNMP-based solutions that monitor and manage the performance data of the IT equipment.

This is the purpose of the Rittal PDU product range, which provides different products for each application.

- Basic PDU: Robust power distribution unit for integration in IT server and network enclosures
- Metered PDU: Integrated, local current measurement at the inlet (without a network interface)
- Smart PDU: Energy measurement at the inlet and remote monitoring over a network using a web browser/SNMP



Basic PDU

Basic PDU is a robust and reliable power distribution unit for supplying all the IT racks in a data center. Different versions are available for input voltages of 110 V and 208 V, and input currents of 20 A and 30 A (single phase).

The use of UL-listed circuit-breakers meets the current-limiting requirements (overload protection) of the individual circuits.

With the 30 A PDUs, the individual fuseways are color-coded to make them more distinctive.

Voltage V	Current A	Outlet type	Number of outlets	Connector	L x W x H inches (mm)	Model No.
120	20	5 – 20	24	C20	31.25 x 1.75 x 2.25 (794 x 44 x 57)	9970.847
208	30	C13	12	L6-30	1.75 x 17 x 2.25 (44 x 482 x 57)	9970.846



Metered PDU

Metered PDU products ensure a reliable energy supply for all the devices installed in the IT rack.

Single-phase 120 V and 208 V versions of metered PDUs are available. Local monitoring of the input current gives the on-site engineer an overview of the utilization of the energy distribution within the rack.

Voltage V	Current A	Outlet type	Number of outlets	Connector	Overcurrent protection	L x W x H inches (mm)	Model No.
120	30	5 – 20	24	L5-30	Fuse	54 x 1.75 x 2.25 (1372 x 44 x 57)	9963.675
208	30	C13	12	L6-30	Fuse	31.25 x 1.75 x 2.25 (794 x 44 x 57)	9963.673

Smart PDU

Smart PDUs provide reliable energy distribution for server and network enclosures. They also provide remote administration and monitoring of all the key performance data of energy distribution. Furthermore, additional sensors can be used to monitor the ambient conditions (such as temperature and humidity) in the rack.

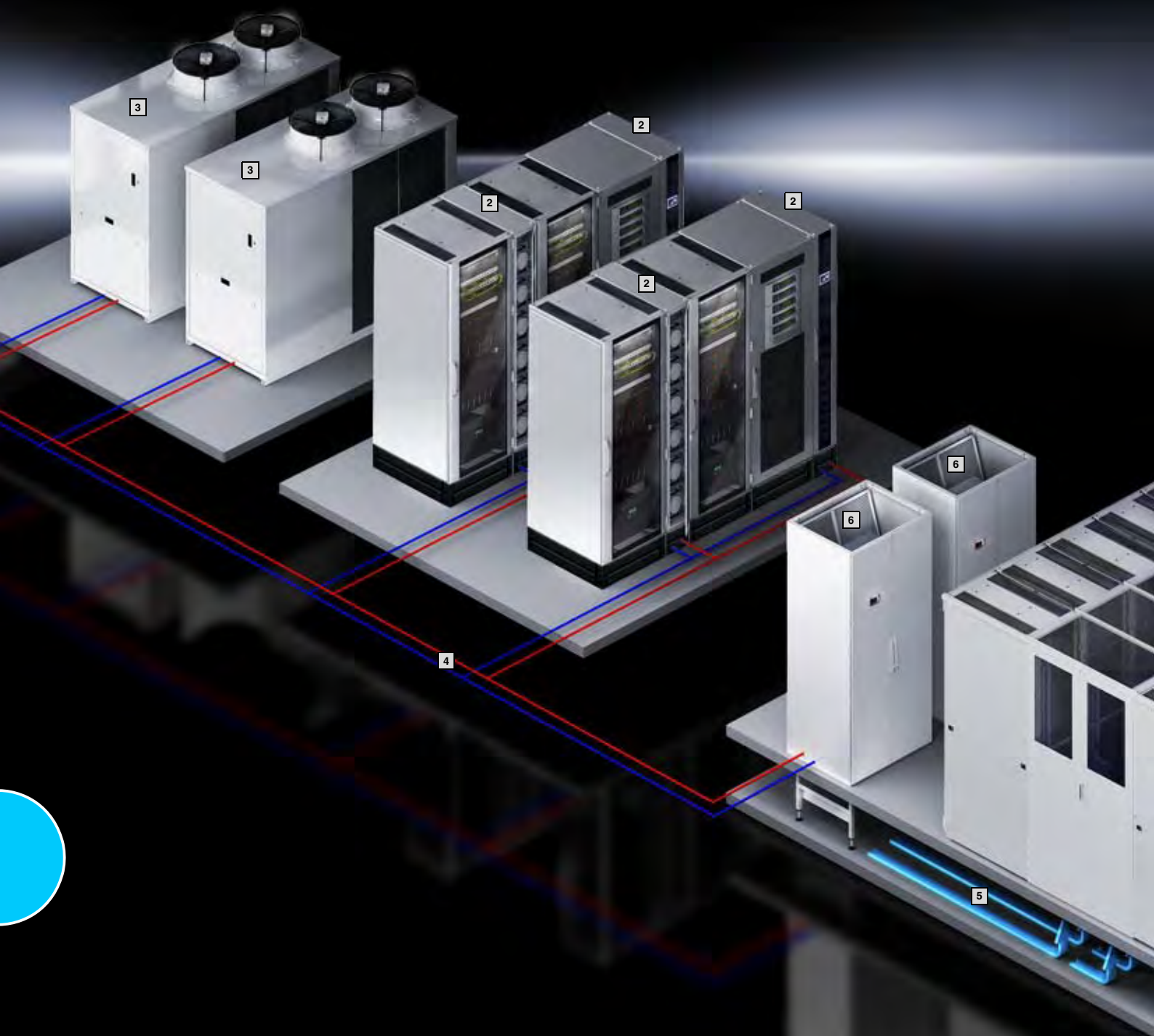
PIPS (Per Inlet Power Sensing) monitors power distribution at the inlet.
The following parameters are recorded:
Voltage, current, active power, apparent power, energy consumption, power factor and crest factor.
Fuse monitoring is also integrated.
When a limit is violated, the PDU automatically transmits alarm messages via SNMP.

Voltage V	Current A	Outlet type	Number of outlets	Connector	Overcurrent protection	L x W x H inches (mm)	Master/ Expansion	Model No.
208 3P Delta	30	C13	24	L15-30	Fuse	69 x 1.75 x 2.25 (1753 x 44 x 57)	Master	9971.104



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IT Cooling

Liquid Cooling Package

LCP Rack CW	348
LCP Inline CW	350
LCP Rack DX	352
LCP Inline DX.....	353
Accessories for LCP CW/DX.....	354

Aisle Containment

Aisle Containment.....	356
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Small Cooling Units

Fan Mounting Plate for TS IT.....	357
Fan Mounting Plate.....	357
Fan Expansion Kit.....	358

Your Benefits

- State-of-the-art climate control technology from cooling single racks to complete data centers
- Individual concepts for rack, suite and room climate control
- Greater security and improved energy and cost efficiency
- Optimization with aisle containment and cross-system control concepts
- Energy-efficient cooling with IT chillers
- Operating costs are minimized with free cooling
- Ecofriendly, thanks to resource and CO₂ savings
- Planning, assembly, commissioning and servicing – all from a single source!



Application examples

- 1 Aisle containment, see page 356
- 2 Liquid Cooling Package LCP, see page 348
- 3 IT chiller with integral free cooling
- 4 Pipework
- 5 Raised floor for cold air supply
- 6 CRAC system

Liquid Cooling Package



Accessories for LCP Page 354 TS IT Network/Server Enclosures Page 90

Advantages:

- Maximum energy efficiency due to EC fan technology and IT-based control
- Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans
- Control of the server intake air temperature
- Redundant temperature sensor integrated at the air end
- Optimum adaptability due to dynamic, continuous control of the cold water volume flow
- By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs

- Targeted cooling output thanks to modular fan units
- Fan modules configurable as n+1 redundancy
- Standard 3-phase connection for electrical redundancy
- The separation of cooling and enclosure prevents water from entering the server enclosure
- Up to 55 kW cooling output on a footprint of just 0.36 m²
- Minimal area load due to low weight

Functions:

The LCP draws in the air at the sides at the rear of the server enclosures, cools it using high-performance compact impellers, and blows the cooled air back into the front part of the server enclosure at the sides

Monitoring:

- Monitoring of all system-relevant parameters such as server air intake temperature, server waste air temperature, water inlet/return temperature, water flow, cooling output, fan speed and leakage
- Direct connection of the unit via SNMP over Ethernet

Temperature control:

- Infinitely variable fan control
- 2-way control ball valve

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 20

Cooling medium:

- Water

Optional:

- Fully integrated fire detection and extinguisher system
- Automatic server enclosure door opening
- Various sensors
- Racks 2200 mm high

Technical details:

Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

LCP Rack CW

Model No.	Packs of	3311.130	3311.230	3311.260	Page
Total cooling output/number of fan modules required BTU (kW)		34121 (10)/1 68243 (20)/2 102364 (30)/3	34121 (10)/1 68243 (20)/2 102364 (30)/3	136486 (40)/4 153546 (45)/5 187668 (55)/6	
Number of fan modules in supplied state		1	1	4	
Height inches (mm)		79 (2000)	79 (2000)	79 (2000)	
Width inches (mm)		12 (300)	12 (300)	12 (300)	
Depth inches (mm)		39 (1000)	47 (1200)	47 (1200)	
Installation in bayed enclosure suite		Flush	Flush	Flush	
Rated operating voltage V, ~, Hz		230, 1~, 50/60 400, 3~, 50/60	230, 1~, 50/60 400, 3~, 50/60	230, 1~, 50/60 400, 3~, 50/60	
Type of connection (electrical)		Connector	Connector	Connector	
Air throughput at max. cooling output cfm (m ³ /h)		2825 (4800)	2825 (4800)	4709 (8000)	
Fans may be exchanged with the system operational		■	■	■	
EC fan		■	■	■	
Water inlet temperature °F		59	59	59	
Permissible operating pressure (p. max.) psi (bar)		87 (6)	87 (6)	87 (6)	
Duty cycle %		100	100	100	
Water connection		1½" BSP Male Thread	1½" BSP Male Thread	1½" BSP Male Thread	
Weight in supplied state lb (kg)		472 (214.0)	472 (214.0)	518 (235.0)	
Accessories					
Fan module	1 pc(s).	3311.011	3311.011	3311.011	355
Touchscreen display, color	1 pc(s).	3311.030	3311.030	3311.030	354
Connection hose, bottom and top	2 pc(s).	3311.040	3311.040	3311.040	354



Accessories for LCP Page 354 TS IT Network/Server Enclosures Page 90

Advantages:

- Maximum energy efficiency due to EC fan technology and IT-based control
- Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans
- Control of the server intake air temperature
- Redundant temperature sensor integrated at the air end
- Optimum adaptability due to dynamic, continuous control of the cold water volume flow
- By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs

- Targeted cooling output thanks to modular fan units
- Fan modules configurable as n+1 redundancy
- The separation of cooling and enclosure prevents water from entering the server enclosure
- Up to 60 kW cooling output on a footprint of just 0.36 m²
- Minimal area load due to low weight

Approvals:

- UL
- cUL

Functions:

The LCP draws in the air at the sides at the rear of the server enclosures, cools it using high-performance compact impellers, and blows the cooled air back into the front part of the server enclosure at the sides

Monitoring:

- Monitoring of all system-relevant parameters such as server air intake temperature, server waste air temperature, water inlet/return temperature, water flow, cooling output, fan speed and leakage
- Direct connection of the unit via SNMP over Ethernet

Temperature control:

- Infinitely variable fan control
- 2-way control ball valve

Color:

- RAL 9005

Protection category IP to IEC 60 529:

- IP 20

Cooling medium:

- Water

Optional:

- Automatic server enclosure door opening
- Various sensors
- Racks 2200 mm high

Technical details:

Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

LCP Rack CW (North American Version)

Model No.	Packs of	3311.238	3311.268	Page
Total cooling output/number of fan modules required BTU (kW)		34121 (10)/1 68243 (20)/2 102364 (30)/3	136486 (40)/4 153546 (50)/5 187668 (60)/6	
Number of fan modules in supplied state		1	4	
Height inches (mm)		79 (2000)	79 (2000)	
Width inches (mm)		12 (300)	12 (300)	
Depth inches (mm)		47 (1200)	47 (1200)	
Installation in bayed enclosure suite		Flush	Flush	
Rated operating voltage V, ~, Hz		208, 2~, 60 230, 1~, 50/60	208, 2~, 60 230, 1~, 50/60	
Type of connection (electrical)		Hard-wired	Hard-wired	
Air throughput at max. cooling output cfm (m ³ /h)		2825 (4800)	4709 (8000)	
Fans may be exchanged with the system operational		■	■	
EC fan		■	■	
Water inlet temperature °F		59	59	
Permissible operating pressure (p. max.) psi (bar)		87 (6)	87 (6)	
Duty cycle %		100	100	
Water connection		1½" BSP Male Thread	1½" BSP Male Thread	
Weight in supplied state lb (kg)		485 (220.0)	529 (240.0)	

Accessories

Fan module	1 pc(s).	3311.016	3311.016	355
Touchscreen display, color	1 pc(s).	3311.030	3311.030	354
Connection hose, bottom and top	2 pc(s).	3311.040	3311.040	354

Liquid Cooling Package



Accessories for LCP Page 354 TS IT Network/Server Enclosures Page 90

Advantages:

- Maximum energy efficiency due to EC fan technology and IT-based control
- Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans
- Optimum adaptability due to dynamic, continuous control of the cold water volume flow
- By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs

- Targeted cooling output thanks to modular fan units
- Fan modules configurable as n+1 redundancy
- Standard 3-phase connection for electrical redundancy
- Redundant temperature sensor integrated at the air end
- The separation of cooling and enclosure prevents water from entering the server enclosure
- Up to 55 kW cooling output on a footprint of just 0.36 m²
- Minimal area load due to low weight

Functions:

The hot air is drawn in from the room or hot aisle at the rear of the device and expelled at the front into the cold aisle after cooling. The LCP achieves maximum performance and efficiency in conjunction with cold aisle containment. With this product, a raised floor is not necessary.

Monitoring:

- Monitoring of all system-relevant parameters such as server air intake temperature, server waste air temperature, water inlet/return temperature, water flow, cooling output, fan speed and leakage
- Direct connection of the unit via SNMP over Ethernet
- Integration into RiZone

Temperature control:

- Infinitely variable fan control
- 2-way control ball valve

Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 20

Cooling medium:

- Water

Optional:

- Various sensors
- Racks 2200 mm high

Technical details:

Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

LCP Inline CW

Model No.	Packs of	3311.530	3311.540	3311.560	Page
Total cooling output/number of fan modules required BTU (kW)		34121 (10)/1 68243 (20)/2 102364 (30)/3	61419 (18)/2 92128 (27)/3 102364 (30)/4	136486 (40)/4 153546 (45)/5 187668 (55)/6	
Number of fan modules in supplied state		1	2	4	
Height inches (mm)		79 (2000)	79 (2000)	79 (2000)	
Width inches (mm)		12 (300)	12 (300)	12 (300)	
Depth inches (mm)		47 (1200)	47 (1200)	47 (1200)	
Installation in bayed enclosure suite		Protruding	Flush	Protruding	
Rated operating voltage V, ~, Hz		230, 1~, 50/60 400, 3~, 50/60	230, 1~, 50/60 400, 3~, 50/60	230, 1~, 50/60 400, 3~, 50/60	
Type of connection (electrical)		Connector	Connector	Connector	
Air throughput at max. cooling output cfm (m ³ /h)		2825 (4800)	2825 (4800)	4709 (8000)	
Fans may be exchanged with the system operational		■	■	■	
EC fan		■	■	■	
Permissible operating pressure (p. max.) psi (bar)		87 (6)	87 (6)	87 (6)	
Duty cycle %		100	100	100	
Water connection		1½" BSP Male Thread	1½" BSP Male Thread	1½" BSP Male Thread	
Water inlet temperature °F		59	59	59	
Weight in supplied state lb (kg)		472 (214.0)	487 (221.0)	518 (235.0)	
Accessories					
Fan module	1 pc(s).	3311.011	3311.011	3311.011	355
Touchscreen display, color	1 pc(s).	3311.030	3311.030	3311.030	354
Connection hose, bottom and top	2 pc(s).	3311.040	3311.040	3311.040	354



Accessories for LCP Page 354 TS IT Network/Server Enclosures Page 90

Advantages:

- Maximum energy efficiency due to EC fan technology and IT-based control
- Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans
- Optimum adaptability due to dynamic, continuous control of the cold water volume flow
- By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs

- Targeted cooling output thanks to modular fan units
- Fan modules configurable as n+1 redundancy
- Redundant temperature sensor integrated at the air end
- The separation of cooling and enclosure prevents water from entering the server enclosure
- Up to 60 kW cooling output on a footprint of just 0.36 m²
- Minimal area load due to low weight

Approvals:

- UL
- cUL

Functions:

The hot air is drawn in from the room or hot aisle at the rear of the device and expelled at the front into the cold aisle after cooling. The LCP achieves maximum performance and efficiency in conjunction with cold aisle containment. With this product, a raised floor is not necessary.

Monitoring:

- Monitoring of all system-relevant parameters such as server air intake temperature, server waste air temperature, water inlet/return temperature, water flow, cooling output, fan speed and leakage
- Direct connection of the unit via SNMP over Ethernet
- Integration into RiZone

Temperature control:

- Infinitely variable fan control
- 2-way control ball valve

Color:

- RAL 9005

Protection category IP to IEC 60 529:

- IP 20

Cooling medium:

- Water

Optional:

- Various sensors
- Racks 2200 mm high

Technical details:

Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

LCP Inline CW (North American Version)

Model No.	Packs of	3311.148	3311.538	3311.548	3311.568	Page
Total cooling output/number of fan modules required BTU (kW)		61419 (18)/2 92128 (27)/3 102364 (30)/4	34121 (10)/1 68243 (20)/2 102364 (30)/3	61419 (18)/2 92128 (27)/3 102364 (30)/4	136486 (40)/4 153546 (50)/5 187668 (60)/6	
Number of fan modules in supplied state		2	1	2	4	
Height inches (mm)		79 (2000)	79 (2000)	79 (2000)	79 (2000)	
Width inches (mm)		12 (300)	12 (300)	12 (300)	12 (300)	
Depth inches (mm)		41 (1050)	47 (1200)	47 (1200)	47 (1200)	
Installation in bayed enclosure suite		Flush	Protruding	Flush	Protruding	
Rated operating voltage V, ~, Hz		208, 2~, 60 230, 1~, 50/60	208, 2~, 60 230, 1~, 50/60	208, 2~, 60 230, 1~, 50/60	208, 2~, 60 230, 1~, 50/60	
Type of connection (electrical)		Hard-wired	Hard-wired	Hard-wired	Hard-wired	
Air throughput at max. cooling output cfm (m ³ /h)		2825 (4800)	2825 (4800)	2825 (4800)	4709 (8000)	
Fans may be exchanged with the system operational		■	■	■	■	
EC fan		■	■	■	■	
Permissible operating pressure (p. max.) psi (bar)		87 (6)	87 (6)	87 (6)	87 (6)	
Duty cycle %		100	100	100	100	
Water connection		1½" BSP Male Thread	1½" BSP Male Thread	1½" BSP Male Thread	1½" BSP Male Thread	
Water inlet temperature °F		59	59	59	59	
Weight in supplied state lb (kg)		485 (220.0)	485 (220.0)	485 (220.0)	529 (240.0)	
Accessories						
Fan module	1 pc(s).	3311.016	3311.016	3311.016	3311.016	355
Touchscreen display, color	1 pc(s).	3311.030	3311.030	3311.030	3311.030	354
Connection hose, bottom and top	2 pc(s).	3311.040	3311.040	3311.040	3311.040	354

Liquid Cooling Package



Accessories for LCP Page 354 TS IT Network/Server Enclosures Page 90

Advantages:

- Maximum energy efficiency due to EC fan technology and IT-based control
- Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans
- Control of the server intake air temperature
- Due to the speed-regulated compressor, the cooling output is ideally adapted to actual requirements

- Redundant temperature sensor integrated at the air end
- Special maintenance of the LCP DX due to separation of cooling and server enclosure
- Absorbed thermal energy is emitted to the ambient air at the external condenser location, without heating up the installation room
- Ideal for IT cooling of small and medium-sized locations
- One or two racks can be cooled separately

Functions:

The LCP draws in the air at the sides at the rear of the server enclosures, cools it using high-performance compact impellers, and blows the cooled air back into the front part of the server enclosure at the sides

Temperature control:

- Infinitely variable fan control
- Inverter-controlled compressor

Color:

- RAL 9005

Protection category IP to IEC 60 529:

- IP 20

Cooling medium:

- R410a

Photo shows a configuration example with equipment not included in the scope of supply

LCP Rack DX

Model No.	Packs of	3311.415	3311.425	Page
Total cooling output/number of fan modules required BTU (kW)		40946 (12)/4	40946 (12)/4	
Height inches (mm)		79 (2000)	79 (2000)	
Width inches (mm)		12 (300)	12 (300)	
Depth inches (mm)		39 (1000)	47 (1200)	
Installation in bayed enclosure suite		Flush	Flush	
Rated operating voltage V, ~, Hz		208, 1~, 60	208, 1~, 60	
Type of connection (electrical)		Terminal	Terminal	
Air throughput at max. cooling output cfm (m³/h)		2825 (4800)	2825 (4800)	
Fans may be exchanged with the system operational		■	■	
EC fan		■	■	
Duty cycle %		100	100	
Weight in supplied state lb (kg)		399 (181.0)	399 (181.0)	
Accessories				
SNMP card	1 pc(s).	3311.320	3311.320	355
Condenser unit	1 pc(s).	9951.077	9951.077	354



Accessories for LCP Page 354 TS IT Network/Server Enclosures Page 90

Advantages:

- Maximum energy efficiency due to EC fan technology and IT-based control
- Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans
- Temperature monitoring and control
- Due to the speed-regulated compressor, the cooling output is ideally adapted to actual requirements
- Redundant temperature sensor integrated at the air end

- Minimal area load due to low weight
- Special maintenance of the LCP DX due to separation of cooling and server enclosure
- Absorbed thermal energy is emitted to the ambient air at the external condenser location, without heating up the installation room
- Ideal for IT cooling of small and medium-sized locations
- One or two enclosures can be cooled separately

Functions:

LCP for siting within a bayed enclosure suite. Hot air is drawn in from the aisle at the rear of the device, cooled by the high-capacity compact impellers, and blown back into the room or cold aisle after cooling.

Temperature control:

- Infinitely variable fan control
- Inverter-controlled compressor

Color:

- RAL 9005

Protection category IP to IEC 60 529:

- IP 20

Cooling medium:

- R410a

Photo shows a configuration example with equipment not included in the scope of supply

LCP Inline DX

Model No.	Packs of	3311.435	3311.445	Page
Total cooling output/number of fan modules required		40946 (12)/4	40946 (12)/4	
Height inches (mm)		79 (2000)	79 (2000)	
Width inches (mm)		12 (300)	12 (300)	
Depth inches (mm)		39 (1000)	47 (1200)	
Installation in bayed enclosure suite		Flush	Flush	
Rated operating voltage V, ~, Hz		208, 1~, 60	208, 1~, 60	
Type of connection (electrical)		Terminal	Terminal	
Air throughput at max. cooling output cfm (m³/h)		2825 (4800)	2825 (4800)	
Fans may be exchanged with the system operational		■	■	
EC fan		■	■	
Duty cycle %		100	100	
Weight in supplied state lb (kg)		399 (181.0)	399 (181.0)	
Accessories				
SNMP card	1 pc(s).	3311.320	3311.320	355
Condenser unit	1 pc(s).	9951.077	9951.077	354

Liquid Cooling Package

Accessories for LCP CW/DX



Touchscreen Display

for LCP rack, Inline, CW

The color display allows you to directly monitor key LCP functions and apply settings.

For LCP CW	Packs of	Model No.
3311.148 3311.238 3311.268 3311.538 3311.548 3311.568	1 pc(s).	3311.030



Condenser Unit

The condenser unit is needed to operate the refrigerant-based LCPs and comprises the external condenser and fan.

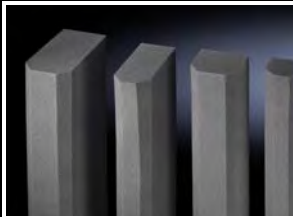
Refrigerant:

- R410a

For LCP DX	Packs of	Model No.
3311.415 3311.425 3311.435 3311.445	1 pc(s).	9951.077

Note:

- The pipework between the LCP DX and the condenser is not included with the supply



Vertical Shielding

for enclosure height 2000 mm

To block the airflow to the left and right of the 19" (482.6 mm) level.

Length: 1900 mm

Material:

- Cellular PU foam
- Flame-inhibiting to UL 94 (HF1)
- Self-adhesive on one side

For seal between	For enclosure width inches (mm)	Packs of	Model No.
Side panel and 19" (482.6 mm) level	24 (600)	1 pc(s).	3301.380
LCP and 19" (482.6 mm) level	24 (600)	1 pc(s).	3301.370



Connection Hose

bottom and top

Flexible connection hose, may be shortened, including union nuts at both ends for connecting the LCP to existing pipework.

For LCP CW	Thread	Water connection from	Packs of	Model No.
3311.148 3311.238 3311.268 3311.538 3311.548 3311.568	1 1/2" BSP	bottom/top	2 pc(s).	3311.040

Liquid Cooling Package

Accessories for LCP CW/DX

SNMP Card

For integrating LCP Rack/Inline DX units into the network.

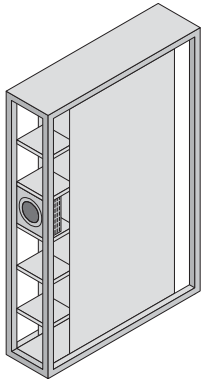
For LCP DX	Packs of	Model No.
3311.415 3311.425 3311.435 3311.445	1 pc(s).	3311.320

Fan Module

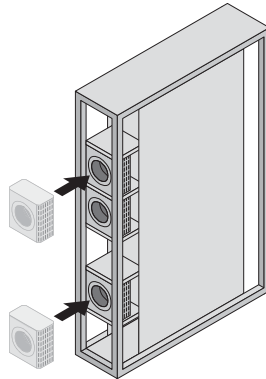
for LCP

To increase the cooling output, individual fan modules can be retro-fitted into the LCPs. This helps to generate redundancy or reduce the electrical power consumption of the LCP.

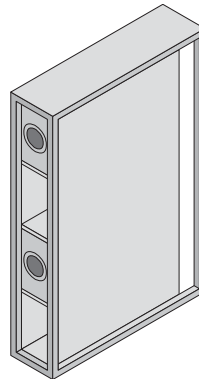
For LCP	Color	Packs of	Model No.
3311.130, 3311.230, 3311.260, 3311.530, 3311.540, 3311.560	RAL 7035	1 pc(s).	3311.011
3311.148, 3311.238, 3311.268, 3311.538, 3311.548, 3311.568	RAL 9005	1 pc(s).	3311.016



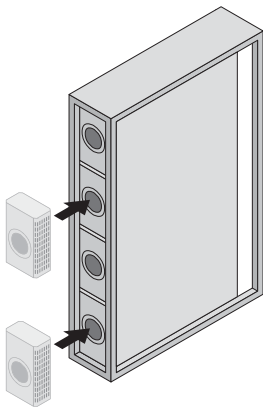
The LCP 3311.238/538 (max. 30 kW) is supplied with one fan module as standard.



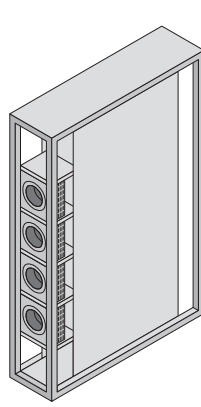
To achieve the max. cooling output of 30 kW, the customer/service should install two additional fan modules.



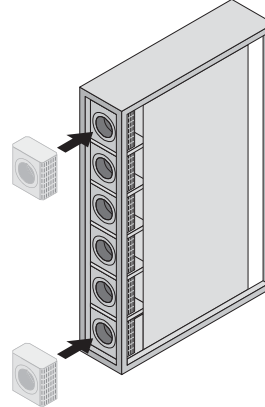
The LCP 3311.148/548 (30 kW) is supplied with two fan modules as standard.



To achieve the max. cooling output of 30 kW, the customer/service should install two additional fan modules.



The LCP 3311.268/568 (max. 60 kW) is supplied with four fan modules as standard.



To achieve the max. cooling output of 60 kW, the customer/service should install two additional fan modules.

Aisle Containment



Liquid Cooling Package Page 348 **TS IT Network/Server Enclosures** Page 90

Slimline door component with viewing window and sliding door. Stable roof component in metal compound with high light transmission. Safety glass can also be used if required.

Applications:

- Depending on the application, aisle containment may be used with CRAC systems or LCP Inline as hot or cold aisle containment.

Advantages:

- Increased energy efficiency and performance capability of climate control.
- Superior output density is facilitated, thanks to targeted cold air supply.
- Easily installed and retrofitted, as it is fully compatible with the TS 8 enclosure system.
- An inexpensive way to boost the performance of your existing plant, lengthening the investment cycle until a replacement needs to be purchased.

Functions:

Aisle containment is a combination of door and roof components which facilitate consistent separation of the hot and cold air in the data center. Such separation is pivotal to saving energy and increasing the efficiency of the existing climate control technology.

Note:

- Individual project planning only
- Photo shows a configuration example with equipment not included in the scope of supply

Model No.	7999.922
-----------	----------

Fan Mounting Plate

for TS IT

For active ventilation. For use in the cut-out integrated into the roof plate. The unit may optionally be extended with additional fans.

Technical specifications for one fan:

- Fan expansion kit 7980.000, see page 358

Technical specifications of thermostat:

- Rated operating voltage: 250 V
- Temperature range: +41°F...+131°F

Color:

- RAL 9005

Supply includes:

- 1 fan unit
- 2 fans
- 1 thermostat
- 1 connection cable, open-end
- Assembly components

Note:

- Connection via distributor box or country-specific connector



Accessories:

- Fan expansion kit, see page 358

W x D inches (mm)	Number of prewired fans	Number of fans supported	Model No.
32 x 24 (800 x 600), 24 x 39 (600 x 1000), 24 x 47 (600 x 1200)	2	3	5502.015
32 x 32 (800 x 800), 32 x 39 (800 x 1000), 32 x 47 (800 x 1200)	2	6	5502.025

Fan Mounting Plate

For upgrading existing DK-TS applications.

The fan mounting plate can be retro-fitted into all existing DK-TS enclosures from above. The plate is mounted at the front of the enclosure, while the rear section is left free for cable entry. A rubber sealing profile is supplied loose for optional sealing at the rear.

The following combinations are also possible:

- Solid roof plate raised with 20 or 50 mm roof spacers
- Roof plate for cable entry raised with 20 or 50 mm roof spacers
- Vented roof plate for cable entry

Can only be used in conjunction with the large pivoting frame from an enclosure depth of 800 mm, and in conjunction with a roof plate for cable entry from 1000 mm.

Technical specifications for one fan:

- Rated operating voltage: 230 V
- Rated power: 15/14 W at 50/60 Hz
- Air throughput (unimpeded air flow): 160/180 m³/h, 50/60 Hz
- Operating temperature range: +14°F...+131°F

Technical specifications of thermostat:

- Rated operating voltage: 250 V
- Operating temperature range: +41°F...+131°F

Color:

- RAL 7035

Supply includes:

- 2 fans
- 2/4 cutouts to extend to 4/6 fans
- Thermostat
- Foam cable clamp strip
- Thermostat and fan fully wired to connection cable, 3500 mm

Note:

- Not suitable for crane transportation
- Not suitable for combination with 19" (482.6 mm) mounting frame

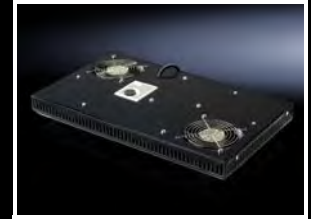
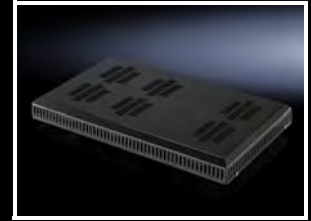
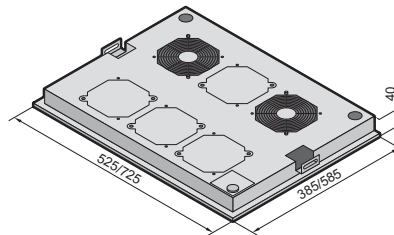
For enclosures		Number of fans	Max. number of fans	Model No.
Width inches (mm)	Depth inches (mm)			
24 (600)	32 (800) 39 (1000) 47 (1200)	2 pc(s).	6 pc(s).	7968.035

Air throughput can be increased with fan expansion kit 7980.000.



Accessories:

- Fan expansion kit, see page 358
- Foam cable clamp strip 2573.000 for sealing at the sides and targeted air routing when bayed, see page 563





Fan Expansion Kit

For retro-fitting various fan units or to supplement the fan mounting plate.

Technical specifications 7980.000:

- Rated operating voltage: 230 V
- Rated power: 15/14 W at 50/60 Hz
- Air throughput (unimpeded air flow): 160/180 m³/h, 50/60 Hz
- Sound pressure level (unimpeded air flow): 37 dB (A)
- Operating temperature range: +14°F...+131°F

Technical specifications 7980.100, 7980.110:

- Rated operating voltage: 230 V, 115 V
- Rated power: 14/12 W at 50/60 Hz
- Air throughput (unimpeded air flow): 108/120 m³/h, 50/60 Hz
- Sound pressure level (unimpeded air flow): 34 dB (A)
- Operating temperature range: -4°F...+158°F

Dimensions H x W x D inches (mm)	Packs of	Model No.
5 x 5 x 2 (119 x 119 x 38)	1 set(s)	7980.000
5 x 5 x 1 (119 x 119 x 25)	1 set(s)	7980.100
5 x 5 x 1 (119 x 119 x 25)	1 set(s)	7980.110

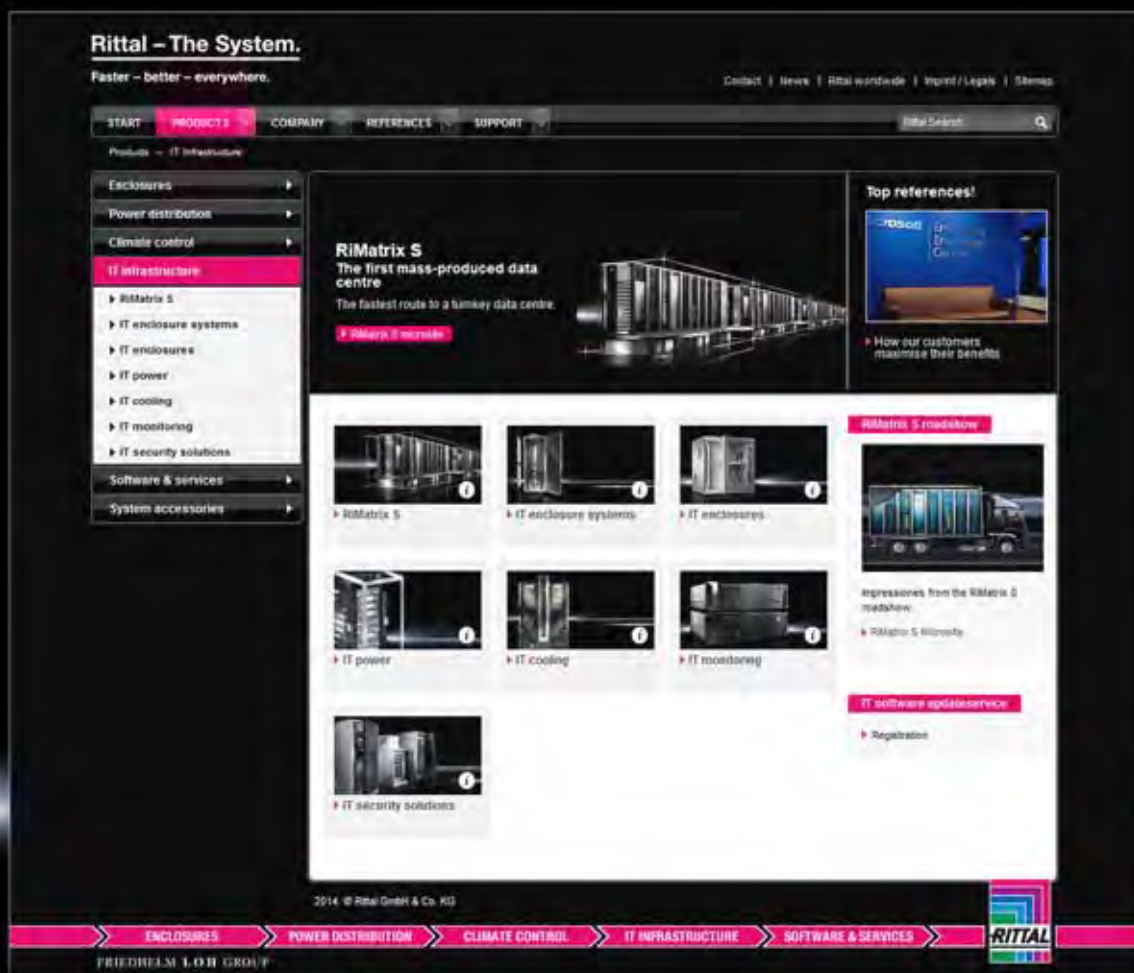
Supply includes:

- 1 fan expansion kit
- Assembly components
- 1 connection cable, 610 mm

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ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

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IT Monitoring

CMC III – Monitoring System

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CMC III Processing Unit/Compact Processing Unit	366

CMC III Sensors/Accessories

CMC III Control Units	367
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CMC III Accessories

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Door Control System

Door Control System	374
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Monitor/Keyboard Unit

Monitor/Keyboard Unit, 1 U	377
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Dynamic Rack Control

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CMC III CAN Bus DRC	378

Management Software

RiZone.....	379
Server Shutdown Software	379

Your Benefits

- A better overview of your IT infrastructure
- Enhanced security
- Automated processes
- Exceptional cost efficiency
- Enormous energy savings
- Simple project planning
- Fast installation
- Flexible and individual solutions with standard products from Rittal
- A high standard of quality with coordinated series products

Application examples

- 1 CMC III, see page 364
- 2 Liquid Cooling Package LCP, see page 348
- 3 Monitor/keyboard unit, see page 377
- 4 TS 8 electric comfort handle, see page 376

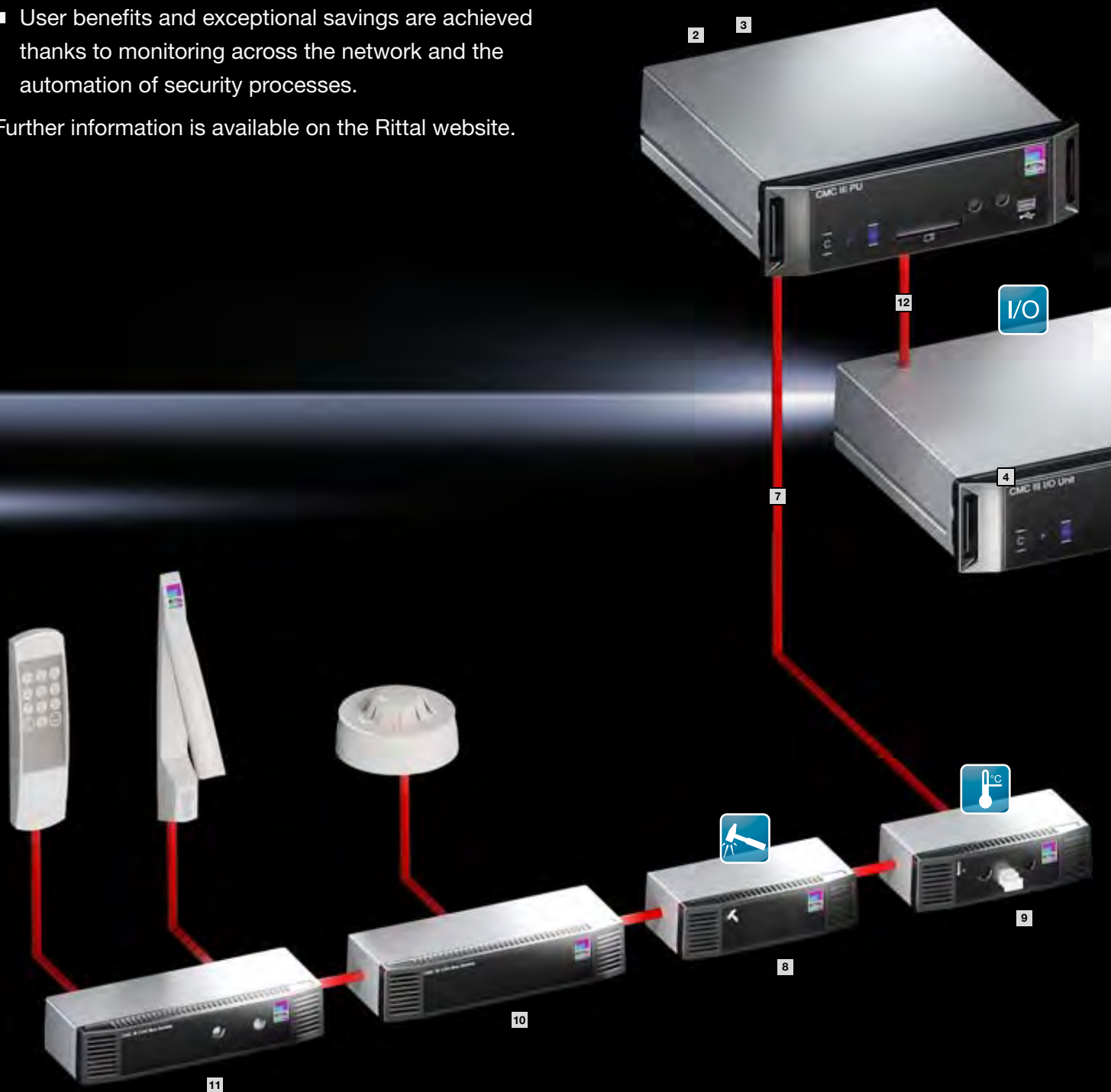
CMC III – Monitoring System

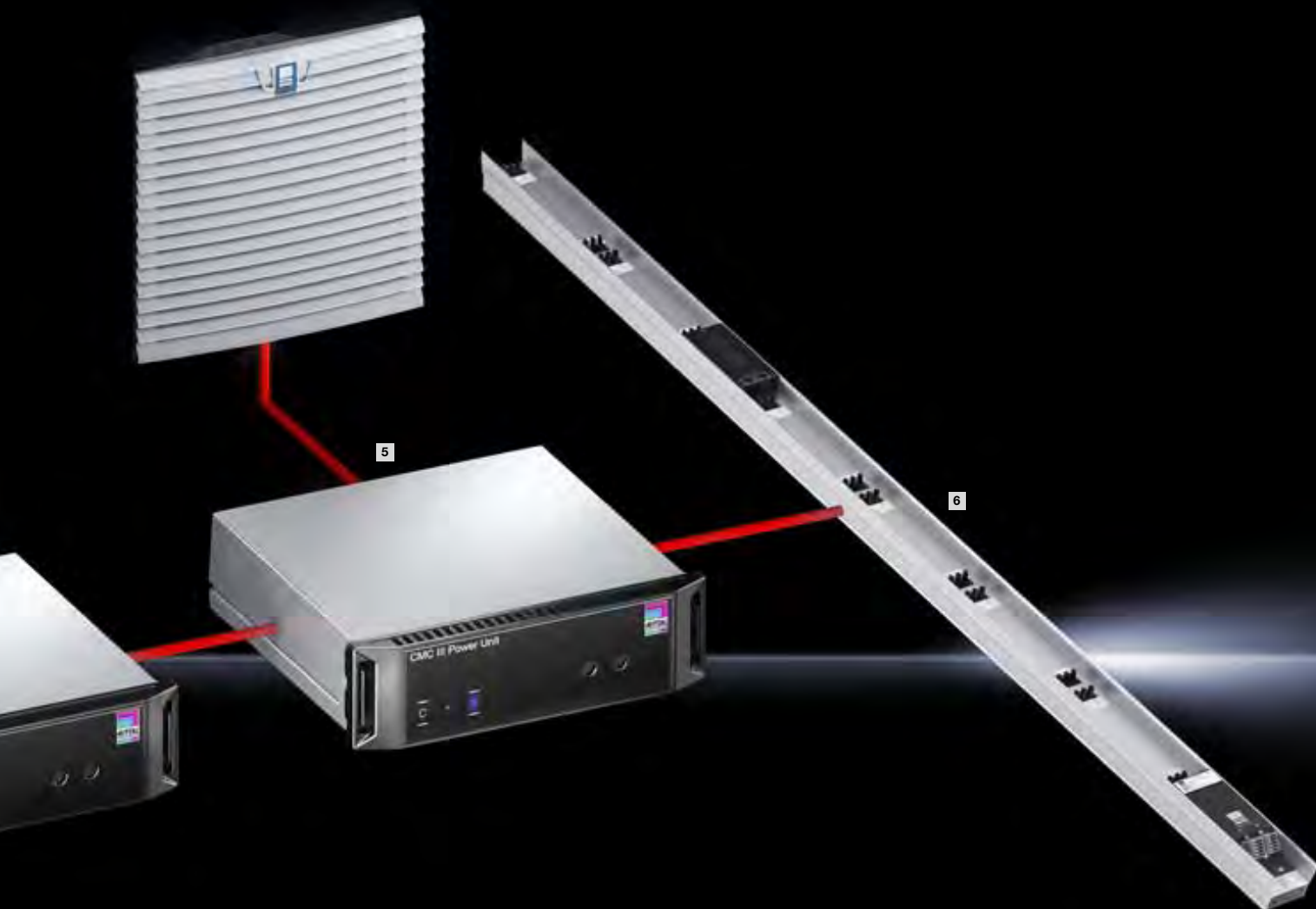
Computer Multi Control (CMC) is an alarm system for network and server enclosures, enclosures, containers and rooms.

- It monitors temperatures, humidity, access, smoke, energy and many other physical ambient parameters.
- It is a modular system that can be flexibly adapted to meet specific monitoring requirements.
- User benefits and exceptional savings are achieved thanks to monitoring across the network and the automation of security processes.

Further information is available on the Rittal website.

1 CMC III Processing Unit





- 1 CMC III Processing Unit**, see page 365
- 2** Power supply
- 3** Redundant power supply
- 4** CMC III I/O unit
- 5** CMC III power unit
- 6** CMC III PSM measuring bar for direct connection
- 7** Up to 16 CAN bus systems can be connected
- 8** CMC III vandalism sensor
- 9** CMC III temperature sensor
- 10** CAN bus sensor for connecting CMC II sensors
- 11** CMC III CAN bus access
- 12** Up to 16 CAN bus systems can be connected

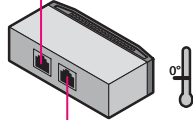
CMC III Processing Unit Compact

System Overview

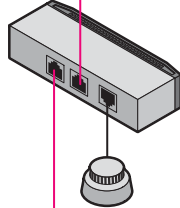


Up to 4 CAN bus components are supported¹⁾

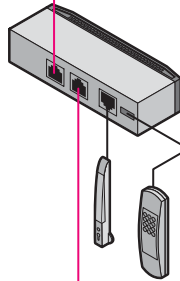
CMC III sensors
for direct connection



CMC III CAN bus sensor
as adapter for
CMC II sensors



CMC III CAN bus access
with integral
IR access sensor



CAN bus 1

Mini USB:

Programming cable 7030.080 is required for programming, see page 371

Internal infrared access sensor

CMC III Processing Unit Compact

24 V (DC) voltage supply and 24 V (DC) redundant voltage supply
Power packs, see page 371

Alarm relay output:

Changeover contact for protective low voltage

Ethernet 10/100 BaseT RJ 45 with PoE:

Ethernet interface to IEEE 802.3
Over 10/100 BaseT full duplex 10/100 Mbit/s

RJ 12/RS232 accessory modules:

Display Unit, ISDN Unit, GSM Unit

External temperature sensor
(Supplied with the PUC)

Two integral digital inputs

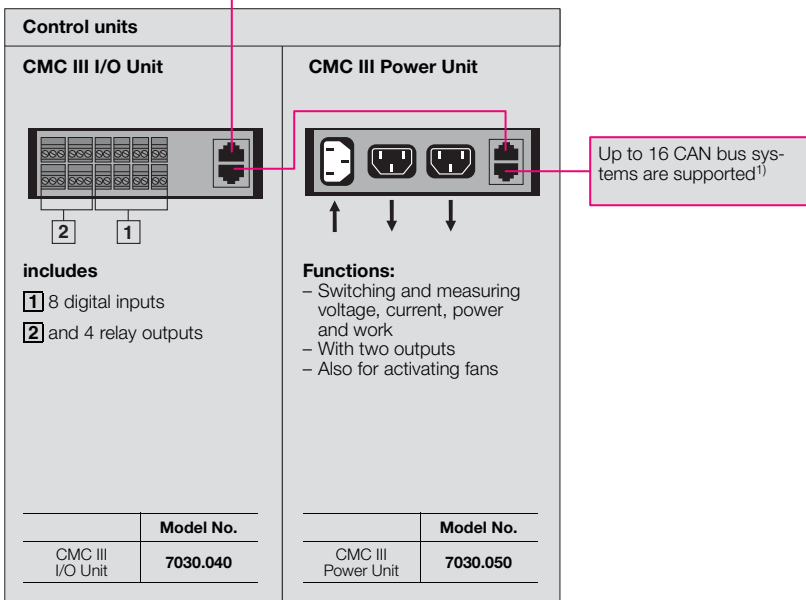
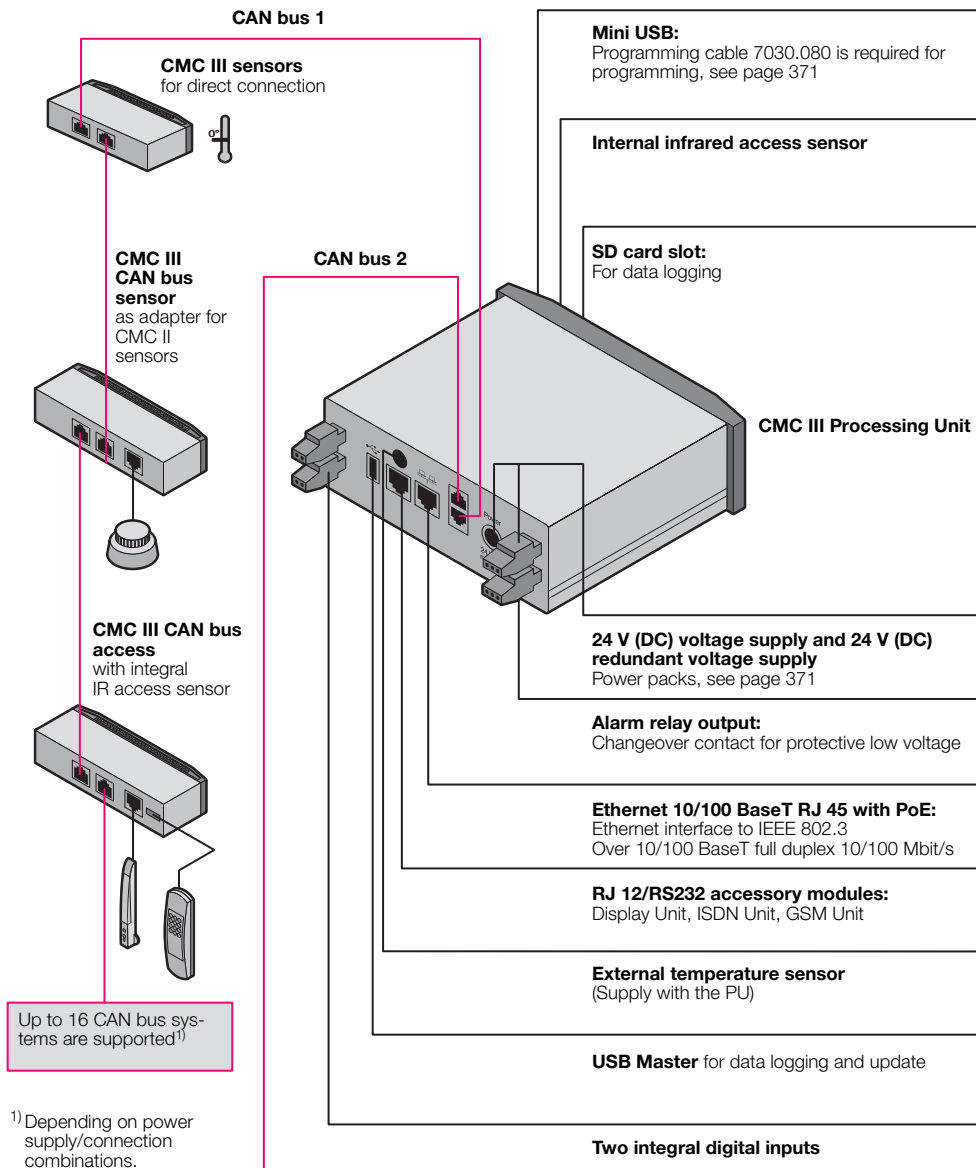
¹⁾ Depending on power supply/
connection combinations.

Note:

Server shutdown software
for CMC III is required to
shut down the server,
see page 379

CMC III Processing Unit

System Overview



CMC III Processing Unit/Compact Processing Unit



System Overview Page 364/365

- Power supply designed for redundancy, plus Power over Ethernet (PoE)
- Simple cabling with the CAN bus connection system (RJ 45)
- Connection to control room systems via OPC UA

Material:

- Plastic

Surface finish:

- Front: Smooth
- Housing: Textured

Color:

- Front: RAL 9005
- Housing: RAL 7035

Protection category IP to IEC 60 529:

- IP 30

Supply includes:

- Basic system
- Quick reference guide
- 4 mounting feet

Approvals:

- cULus

Photo shows a configuration example with equipment not included in the scope of supply

		CMC III Processing Unit	CMC III Processing Unit Compact
W x H x D inches (mm)		5.4 x 1.6 x 4.7 + 0.47 (138 x 40 x 120 + 12 front assembly)	5.4 x 1.6 x 4.7 + 0.47 (138 x 40 x 120 + 12 front assembly)
Operating temperature range		32°F...+113°F	32°F...+113°F
Operating humidity range		5 – 95% relative humidity, non-condensing	5 – 95% relative humidity, non-condensing
Sensors/CAN bus connection units		Max. 32	Max. 4
Max. total cable length for CAN bus		2 x 1969" (2 x 50 m)	1 x 1969" (1 x 50 m)
Model No.		7030.000	7030.010
Interfaces	Network interface (RJ 45)	Ethernet to IEEE 802.3 via 10/100BaseT with PoE	Ethernet to IEEE 802.3 via 10/100BaseT with PoE
	Front USB port	Mini USB for system setup	Mini USB for system setup
	Rear USB port	For USB stick for recording up to 32 GB of data	–
	Front SD-HC slot	1 x up to 32 GB for recording data	–
	Rear serial RS232 (RJ 12)	1 x for connecting a Display Unit, GSM Unit or ISDN Unit	1 x for connecting a Display Unit, GSM Unit or ISDN Unit
	CAN bus (RJ 45)	2 x for max. 16 sensors each = 32 sensors in total (number is restricted, see page 367 – 370)	1 x for max. 4 sensors (number is restricted, see page 367 – 370)
Inputs and outputs	Digital inputs (terminal)	2	2
	Relay output (terminal)	Changeover contact max. 24 V (DC), 1 A	Changeover contact max. 24 V (DC), 1 A
Operation/ signals	Buttons	1 x acknowledgment button	1 x acknowledgment button
	Hidden reset button	1 x service button	1 x service button
	Piezoelectric signal transmitter	1	1
	LED display	1 x multi-color OK/warning/alarm	1 x multi-color OK/warning/alarm
	Rear LED	1 x for network status	1 x for network status
Protocols	Ethernet	TCP/IPv4, TCP/IPv6, SNMPv1, SNMPv2c, SNMPv3, Telnet, SSH, FTP, SFTP, HTTP, HTTPS, NTP, DHCP, DNS, SMTP, Syslog, LDAP	TCP/IPv4, TCP/IPv6, SNMPv1, SNMPv2c, SNMPv3, Telnet, SSH, FTP, SFTP, HTTP, HTTPS, NTP, DHCP, DNS, SMTP, Syslog, LDAP
Redundant power supply	Input 24 V DC (jack)	1 x for connecting CMC III power pack	1 x for connecting CMC III power pack
	Input 24 V DC (terminals)	1 x for direct connection or for connecting CMC III power pack	1 x for direct connection or for connecting CMC III power pack
	Power over Ethernet PoE	1 x 53 BTU (15.4 W)	1 x 53 BTU (15.4 W)
Functions	Time function	Real-time clock, energy-buffered (24 h) without battery/rechargeable battery, with NTP	Real-time clock, energy-buffered (24 h) without battery/rechargeable battery, with NTP
	User administration	LDAP	LDAP
	User interface	Integrated WEB server, with flexible dashboard	Integrated WEB server, with flexible dashboard
	Control room connection	Integrated OPC UA server, Modbus TCP	Integrated OPC UA server, Modbus TCP
Integral sensors	Temperature sensor	NTC sensor with cable, supplied loose	NTC sensor with cable, supplied loose
	Access sensor	Infrared technology in front of housing	Infrared technology in front of housing



Control Units for CMC III Processing Unit

Dimensions:

- H x W x D:
40 x 138 x 120 + 12 mm front frame

Material:

- Plastic

Surface finish:

- Front: Smooth
- Housing: Textured

Color:

- Front: RAL 9005
- Housing: RAL 7035

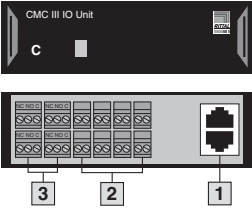
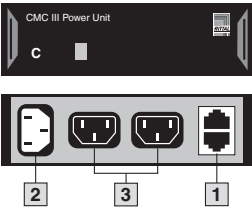
Protection category IP to IEC 60 529:

- IP 30



Also required:

- CAN bus connection cable 7030.090/.095, see page 371
- Mounting unit 1 U, 7030.070, see page 372

		1 Connection RJ 45 2 x CAN bus	2 Inputs	3 Outputs	Model No.	PU Compact	PU
						Maximum number	
 CMC III IO Unit	I/O Unit Control Unit The relays can be linked with measurements in the software, so that they switch under certain conditions. Devices can be monitored or messages forwarded in this way. Cannot be operated with the Processing Unit Compact – Inputs for floating signals – Relay output (changeover contact) can handle loads of up to max. 24 V (DC)/1 A	■	8 x digital	4 x relay	7030.040	–	16
 CMC III Power Unit	Power Unit Control Unit The input is switched to the outputs by two relays. In this way the outputs can be linked with measurements and therefore switched automatically. Fan control is one application example. Manual switching via the CMC III user interface is also possible. Each output is individually monitored and different values are measured. Cannot be operated with the Processing Unit Compact – Switches 2 outputs – Measures voltage, current, power, work – Application: Controlling and switching fans, heaters, equipment	■	1 x voltage C14 110 – 230 V 50/60 Hz	2 x current C13 Aggregate current max. 10 A	7030.050	–	16

Accessories



CMC III Sensors for Direct Connection

CMC III sensors are used to monitor the physical environment and can be directly connected to the PU by an RJ 45 CAN bus connection cable. The sensors can also be interconnected as a bus.

Dimensions:

- 7030.110, .111, .120, .130
H x W x D: 28 x 80 x 40 mm
- 7030.140, .150, .190, .430, .440
H x W x D: 30 x 110 x 40 mm
- 7030.400
Ø x H: 100 x 60 mm

Material:

- Plastic

Surface finish:

- Front: Smooth
- Housing: Textured

Color:

- Front: RAL 9005
- Housing: RAL 7035
- Smoke detector: White

Protection category IP to IEC 60 529:

- IP 30

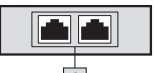
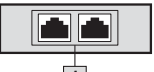
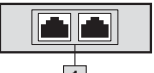
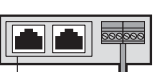
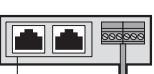
Supply includes:

- Sensor
- Mounting bracket
- Assembly components
- Instructions booklet



Also required:

- CAN bus connection cable 7030.090/.095, see page 371

	[1] RJ 45 connection 2 x CAN bus	[2] Inputs	Model No.	PU Compact	PU
				Maximum number	
  1	■	–	7030.110	4	32
  1	■	–	7030.111	4	32
  1	■	–	7030.120	4	32
  1	■	–	7030.130	4	32
  1	■	–	7030.140	4	10 ¹⁾
  1	■	–	7030.150	4	32
  1 2	■	2 x digital, may be switched to pulse input S ₀ or a Wiegand interface 1 x analog 4 – 20 mA	7030.190	4	32
  1	■	–	7030.400	4	32
  1	■	–	7030.430	4	32
  1	■	–	7030.440	4	32

¹⁾ Max. 5 pc(s) for power supply with PoE



Interface for CMC-TC Sensors

With the CMC III CAN bus sensor, it is possible to connect certain CMC-TC system sensors to the new CMC III. Old applications can be upgraded in this way with the CMC III Processing Unit/Compact. The unit not only has two CAN bus connections, but also one extra connection for one of the CMC-TC sensors. The unit therefore acts as the interface between the CMC-TC sensor and the new processing unit, and adapts the sensor data to the CAN bus protocol.

Dimensions:

- H x W x D:
30 x 110 x 40 mm

Material:

- Plastic

Surface finish:

- Front: Smooth
- Housing: Textured

Color:

- Front: RAL 9005
- Housing: RAL 7035

Protection category IP to IEC 60 529:

- IP 30

Supply includes:

- Sensor
- Assembly parts
- Assembly components
- Instructions booklet

The following CMC-TC sensors can be connected to the CMC III CAN bus sensor:

- 1 x temperature sensor
- 1 x analog input 4 – 20 mA
- 5 x access sensors in series
- 1 x airflow sensor
- 1 x smoke detector
- 1 x motion detector
- 1 x digital input
- 1 x digital relay output
- 1 x voltage monitoring system
- 1 x 48 V voltage sensor
- 1 x leakage sensor
- 1 x leakage sensor, 15 m sensor length
- 1 x door control unit (two connections)
- 1 x DET-AC extinguisher system (three connections)
- 1 x DET-AC early fire detection system (three connections)



Also required:

- CAN bus connection cable 7030.090/.095, see page 371

	[1] Connection RJ 45 2 x CAN bus	[2] Input RJ 12	[3] Output RJ 12	Model No.	PU Compact	PU
					Maximum number	
1 CAN bus sensor To connect a CMC-TC sensor	■	1 x	–	7030.100	4	32
Sensors that may be connected (max. 1 sensor per CAN bus sensor)						
2 CMC-TC access sensor – Sensor: Reed Contact/Magnet – Max. 5 reed contacts in series – 2 m cable included with the supply	–	–	1 x	7320.530	–	–
3 CMC-TC motion detector – Sensor: Infrared – 2 m cable included with the supply	–	–	1 x	7320.570	–	–



Access system

CMC III unit for controlling and monitoring access to the enclosures. One handle and one reader unit can be connected to each CMC III CAN bus access. The handles can be linked with different number codes or RFID card numbers via the CMC III Processing Unit/Compact website, so that all the handles connected to a CMC III Processing Unit/Compact can be controlled with just one reading system. Thanks to the integrated infrared sensor, the status of the controlled door (open/closed) is still monitored.

Dimensions:

- H x W x D:
30 x 110 x 40 mm

Material:

- Plastic

Surface finish:

- Front: Smooth
- Housing: Textured

Color:

- Front: RAL 9005
- Housing: RAL 7035

Protection category IP to IEC 60 529:

- IP 30

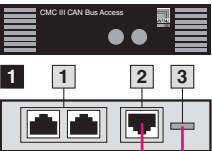
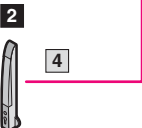
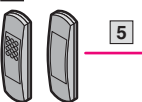
Supply includes:

- CAN bus access
- Assembly parts
- Assembly components
- Instructions booklet



Also required:

- CAN bus connection cable 7030.090/.095, see page 371

	Connection	Inputs		Outputs		Model No.	PU Compact	PU	
	1	2	3	4	5		Maximum number		
	RJ 45 2 x CAN bus	RJ 12	Flat con- nector	RJ 12	Flat con- nector				
	1 CAN bus access – To connect a handle and reader unit for monitoring a door – Integrated IR access sensor	■	1 x	1 x	–	–	7030.200	2	16 ¹⁾
Handles and reader units that may be connected (max. 1 handle and max. 1 reader unit per CAN bus access)									
	2 Handles – TS 8 handle with master key function – Handle monitoring – Rated voltage: 24 V (DC) – 3 m and 2 m cable included with the supply	–	–	–	1 x	–	7320.721	–	–
	3 CMC III Reader Units – Coded lock – Any number code with up to 8 digits – 3 m cable included with the supply – Transponder reader – The contact-free provision of a transponder card allows the authorization (card UID) in the CMC III Processing Unit/Compact to be verified, and the relevant door/s released – Technology: 13.56 MHz transponder – Tags: ISO 14443A, ISO 14443B, ISO 15693, ISO 18000-3 – 3 m cable included with the supply	–	–	–	–	1 x	7030.220	–	–
		–	–	–	–	1 x	7030.230	–	–

¹⁾ Max. 5 pc(s) for power supply with PoE

Power Pack Power Supply

for PU, PU Compact, CAN bus unit, CAN bus DRC, door control system.

The power pack is specifically adapted to the CMC III design and can be placed in a CMC III mounting unit. As well as a special connector for the CMC III Processing Unit/Compact, there are also two terminals available as 24 V outputs.

Technical specifications:

- Input voltage: 100 – 240 V / 50/60 Hz
- Output voltage: 24 V (DC)/2.5 A
- Length of 24 V DC connection cable: 0.6 m

Dimensions:

- H x W x D:
40 x 138 x 120 + 12 mm front frame

Material:

- Plastic

Surface finish:

- Front: Smooth
- Housing: Textured

Packs of	Model No.
1 pc(s).	7030.060

Color:

- Front: RAL 9005
- Housing: RAL 7035

Supply includes:

- Assembly components
- Instructions booklet



Also required:

- Connection cable, see page 372



Accessories:

- Mounting unit, see page 373



Interference Suppressor for Fans

for CMC III

For connection of fans via the CMC III Power Unit 7030.050. Prevents malfunctions when switching off the fan motor. One interference suppressor is required per fan.

Material:

- Plastic

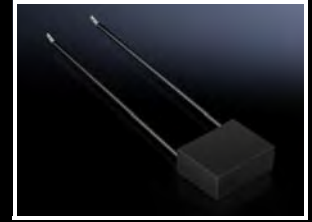
Color:

- RAL 9005

Supply includes:

- Assembly components

Packs of	Model No.
1 pc(s).	7030.051



Programming Cable

For initial commissioning of the Processing Unit (PU) or PU Compact. The CMC III Processing Unit/Compact is connected to a PC USB port via the programming cable to do this. A driver for Windows systems is also supplied, which must be installed on the PC.

Supply includes:

- CD with driver and system description

Packs of	Model No.
1 pc(s).	7030.080



CAN Bus Connection Cable

With this cable, the PU can be hard-wired with the CAN bus III sensors, III units and III control units as a bus. Also for cabling with one another.

The different lengths allow the CMC III system to be adapted to different applications and specifically configured.

CMC III CAN bus connection cable	Length inches (m)	Packs of	Model No.
RJ 45	20 (0.5)	1 pc(s).	7030.090
RJ 45	39 (1)	1 pc(s).	7030.091
RJ 45	59 (1.5)	1 pc(s).	7030.092
RJ 45	79 (2)	1 pc(s).	7030.093
RJ 45	118 (3)	1 pc(s).	7030.480
RJ 45	157 (4)	1 pc(s).	7030.490
RJ 45	197 (5)	1 pc(s).	7030.094
RJ 45	394 (10)	1 pc(s).	7030.095



CMC III

Accessories



Connection Cable/Extension

For connecting to:

- CMC III Power Pack C13
- CMC III Power Unit C13

Technical specifications:

- PVC cable, 3-pole, with IEC connector (non-heating appliances) with CEE22 contact protection
- Length: Min. 1.8 m

Country version	Voltage Volt	Packs of	Model No.
Non-heating appliance extension C13/C14	230/115	1 pc(s).	7200.215



RJ 12 Extension Cable

with RJ 12 connector/jack

To extend the cable connections to the CMC-TC sensors.

Length inches (m)	Packs of	Model No.
39 (1)	2 pc(s).	7320.814



Mounting Unit, 1 U

To make it easier to install the CMC III units in network and server enclosures. Mounting in the 19" (482.6 mm) profile (for three CMC III units).

To hold

- PU
- PU Compact
- Control units
- CMC III CAN bus DRC
- CMC III power pack
- CMC III GSM unit
- CMC III door control module

Can hold up to 3 CMC III housings and is mounted in the 19" frame.

Packs of	Model No.
1 pc(s).	7030.070

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 2 blanking covers



Accessories:

- Cable clamp bracket 7030.087, see page 372



Cable Clamp Bracket

for CMC III

For attachment to the rear of the CMC III 19" mounting unit 7030.070. Enables neat cable routing at the rear of the installed CMC III devices, as well as fixing of the cables for strain relief. The cables can easily be laid as a loop, so that the installed CMC III devices can be removed from the mounting unit without the need for any tools.

Supply includes:

- Assembly components

Packs of	Model No.
1 pc(s).	7030.087

Mounting Unit

For mounting on the enclosure section (for a CMC III unit)

To hold

- PU
- PU Compact
- Control units
- CMC III CAN bus DRC
- CMC III power pack
- CMC III GSM unit
- CMC III door control module

Can hold one CMC III housing and is mounted on the enclosure frame.

Packs of	Model No.
1 pc(s).	7030.071

Material:

Carbon steel

Surface finish:

– Zinc-plated



CMC III GSM unit

For establishing a redundant transmission path or, if no network infrastructure is available, for alarm forwarding. The alarm message is sent as an SMS. To cover 4 GSM frequencies (quad band): 850 MHz, 900 MHz, 1800 MHz and 1900 MHz. A standard, commercially available SIM card must be provided by the customer.

Packs of	Model No.
1 pc(s).	7030.570

Material:

– Plastic

Color:

– Front: RAL 9005
– Housing: 7035

Supply includes:

- RJ 12 cable
- GSM aerial
- Assembly components
- Instructions booklet



A close-up photograph of a window frame. The frame is made of a light-colored material, possibly aluminum or plastic. A dark, flexible seal is visible along the edge of the frame. A metal hinge is attached to the frame, and it appears to be loose or broken, with a small piece of the seal or frame material hanging off it.



+

Door Control Module

CAN bus

1 Door kit

2 Door comfort handles

3 Door kit extension for LCP

4 Min. 800 mm enclosure depth

Door Control Module

Control unit for automatic opening of TS IT rack doors. Designed for a rack with a front and rear door. Suitable for the CMC III system with CAN bus.

Material:

- Plastic

Color:

- Front: RAL 9005
- Housing: 7035

Supply includes:

- Basic system
- 4 mounting feet
- Quick reference guide



Also required:

- Door kits, see page 375
- Power packs, see page 371
- Connection cable, see page 372
- Mounting unit 1 U, see page 372



Accessories:

- CAN bus connection cable, see page 371
- Door switch/comfort handle, see page 376
- Coded lock/transponder reader, see page 370



Model No.	7030.500
Packs of	1 pc(s).
1st rated voltage	24 V (DC) Door Control Module via CMC III CAN bus, redundant at 2nd rated voltage
2nd rated voltage	24 V (DC) 7030.060 for Door Control Module and magnet systems
3rd rated voltage	24 V (DC) 7030.060 for spindle motors only (protect via UPS)
1 x temperature sensor input	NTC sensor (included with the supply)
3 x digital inputs	Alarm/front door/rear door
1 x input for readers	Coded lock/transponder reader
2 x outputs for door kits	Magnet system with damper
2 x outputs for door kits extension	Spindle motors
2 x CAN bus CMC III	RJ 45 for CAN bus cables

Door Kit

for TS IT (magnet system with damper)

To open the door in emergency situations. Connection and activation via the Door Control Module, for standard TS IT doors. The doors are kept closed by a magnet system. If the voltage of the magnets is interrupted, the gas pressure damper system opens the door.

Technical specifications:

- Rated voltage: 24 V DC
- Rated current 7030.240/241: 390 mA
- Rated current 7030.250: 520 mA

Material:

- Carbon steel

Surface finish:

- Zinc-plated

TS IT version	Packs of	Model No.
1-piece glazed aluminum door	1 pc(s).	7030.240
1-piece carbon steel door	1 pc(s).	7030.241
2-piece door	1 pc(s).	7030.250

Supply includes:

- Gas pressure damper
- Cable harness
- Magnet system with damper
- Instructions booklet
- Assembly components



Also required:

- Door Control Module DCM, see page 375
- For 7030.250: Tubular door frame, see page 467



Door Kit Extension

for TS IT, LCP (spindle motor)

To open the door in emergency situations. For applications with negative pressure in the rack, e.g. LCP, powerful server fan motors, etc., this kit is required in addition to the magnetic lock. The motor pushes the door open until the negative pressure is resolved. Mounting takes place on the roof.

Technical specifications:

- Rated current: 900 mA
- Compressive force: 1000 N
- Length of travel: Max. 200 mm

Material:

- Carbon steel
- Aluminum
- Plastic

Packs of	Model No.
2 pc(s).	7030.261

Supply includes:

- 2 spindle motors
- 2 push frames
- Instructions booklet
- Assembly components



Also required:

- Door Control Module DCM, see page 375
- Door kits, see page 375
- Power pack (with UPS protection), see page 371



Door Control System

Accessories



Door Comfort Handle

with door opener function

When the lock mechanism is actuated, the door is released by the automatic door opening system. Designed for the installation of commercially available 40 mm semi-cylinders and SZ lock and push-button inserts.

Length: 302 mm.

Technical specifications:

- Rated voltage: 24 V (DC)
- Rated current: Max. 3 A
- Connection cable: Length 3 m
- Temperature application range: +41°F...+104°F

Color:

- RAL 7035

Packs of	Model No.
1 pc(s).	7320.794



Also required:

- Handle adapter for mounting on glazed door 8611.080, see page 467



Accessories:

- Lock and push-button inserts, see page 483



Door Switch

Switch with normally closed contact for Door Control Module 7320.790 for manual door opening. Mounting takes place in the 25 mm hole pattern of the TS IT frame profile.

Technical specifications:

- Installation: Ø 16.2 mm
- 250 V/2 A

Packs of	Model No.
1 pc(s).	7320.793

Supply includes:

- 3 m connection cable
- Mounting bracket
- Assembly components

Monitor/Keyboard Unit, 1 U with 17" TFT display and VGA/DVI connection

Advantages:

- With digital and analog interfaces, VGA, DVI-D, PS/2, USB
- Simple, one-man installation
- Optionally with integrated KVM switch for up to 8 servers

Technical design:

- 17"/432 mm TFT display
- Physical resolution: 1280 x 1024
- Format: 4 : 3
- Colors: 16.7 million
- Brightness: Approx. 350 cd/m² (typical)
- Contrast ratio: Approx. 1000 :1
- Mains voltage: 100 – 240 V/50 – 60 Hz
- Ambient temperature: +41°F...+113°F (operational)
- Max. power consumption during operation without optional KVM system: 32 W
- Max. power consumption with closed monitor unit, without optional KVM system: < 1 W
- Rear connections: Mains voltage, VGA, DVI, PS/2, USB, power supply for KVM
- Lockable at the front
- Cables are safely routed in the energy chain

Height U	Width inches (mm)	Depth inches (mm)	Installation depth inches (mm)	Packs of	Color	Keyboard	Model No.
1	19 (482.6)	27 (680)	27-33 (680 – 850)	1 pc(s).	RAL 7035	English	9055.312



Expert knowledge from the experts of the Rittal Technology Library

See the Rittal website
for more information.

Dynamic Rack Control

Accessories



RFID Aerial

for TS IT

Is inserted in the 19" profile of the TS IT. Position detection of the components is accurate to within 1/3 U; for this reason there are 3 aerial elements and signaling LEDs integrated into each height unit. Reading and writing of the RFID tags is always signaled by an LED.

Supply includes:

- Assembly components

U	Packs of	Model No.
42	1 pc(s).	7890.242
47	1 pc(s).	7890.247



Also required:

- RFID controller 7890.500, see page 378
- RFID tags 7890.020, see page 378



RFID Tags

One RFID tag is required per component. Each tag has a unique ID (UID, not consecutive) that cannot be changed. In other respects, the data are stored on the tag in line with ISO 15693. In each case, the tag is glued to the 19" mounting bracket on the inside/right. The tag is equipped with an adhesive surface for this purpose. Following this, the components are then screwed to the tag with the 19" level.

Technical specifications:

- Type: Passive, writable
- Frequency: 13.56 MHz

Packs of	Model No.
20 pc(s).	7890.020



RFID Controller

Connects the RFID aerial with the CAN bus DRC. Using this, the CMC can report automatic changes, display the enclosure with the built-in components and carry out capacity management. One RFID controller is required per rack/aerial.

Connections:

- RJ 45 jack for max. one CAN bus DRC
- Mini-DIN for max. one RFID aerial

Supply includes:

- Hook and loop straps for mounting

Packs of	Model No.
1 pc(s).	7890.500



Also required:

- CAN bus connection cable, see page 371
- CMC III CAN bus DRC, see page 378
- Mounting



CMC III CAN Bus DRC

For connecting an RFID controller 7890.500 to the PU/PU Compact.

Four CAN-Bus DRCs can be connected to the Processing Unit and 2 CAN-Bus DRCs to the Processing Unit Compact.

Packs of	Model No.
1 pc(s).	7030.550



Also required:

- CAN bus connection cable, see page 371
- Mounting unit, 1 U, 7030.070, see page 372
- Power pack power supply, see page 371

RiZone Appliance Standard

RiZone is supplied as a hardware or software appliance.

As a hardware appliance, RiZone is supplied with global support, installed on a powerful 1 U server. The software appliance is available as a virtual server which can easily be used on existing hardware in the data center.

Note:

- Both appliances support communication with Rittal devices and devices from third-party manufacturers via an integral MIB browser



Also required:

- RiZone Appliance IP node license corresponds to the number of IP nodes available.

Standard version	Model No.		
Hardware Appliance ¹⁾	Server with Windows	RiZone software	RiZone graphics tool
	7990.101	7990.201	7990.301
Software Appliance ¹⁾	Hard drive + Windows	RiZone software	RiZone graphics tool
	7990.103	7990.203	7990.303

¹⁾ All Model Nos. on the same line belong together and must always be ordered together

RiZone Appliance IP Node License

The flexible RiZone license model allows optimum adaptation to any project size, while at the same time allowing the opportunity to grow with the data center.

The volume licenses for the IP nodes are graduated with 25 and 100 nodes and may be adapted precisely to the size of the data center. One node license is required for each active component or other SNMP-compatible component to be covered.

For number of IP nodes ¹⁾	Console licenses included	Model No.	
		RiZone Software	RiZone Graphics tool
25	4	7990.206	7990.306
100	8	7990.208	7990.308

¹⁾ All Model Nos. on the same line belong together and must always be ordered together.

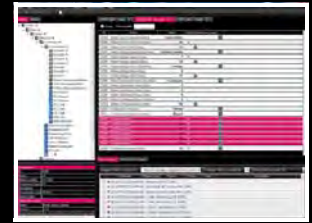
Server Shutdown Software for CMC III

Client software to control the server shutdown via CMC III. The software supports all common operating systems and versions (e.g. Windows 7, VISTA, XP, Server 2003/2008, UNIX/LINUX and VMWARE Sphere/ESX Server, CITRIX XEN etc). One license is required for each server to be shut down on an event-controlled basis.

Licenses	Model No.
Single license	7857.421

Note:

- Software updates and a complete list of currently supported operating systems can be found on the Rittal website



Rittal – The System.

Faster – better – everywhere.



Micro Data Center

Level E	382
Level B	383
Level A	384
Compact Split Cooling Solution	385

Data Center Container

Data Center Container DCC	386
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Fire Alarm and Extinguisher System

DET-AC III/EFD III Fire Alarm and Extinguisher System.....	387
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Security Rooms

Security Rooms	388
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Your Benefits

- Simple and flexible integration into existing building structures
- Extendible for permanent cost-effectiveness and future-proofing
- Optimum space utilization due to the flexible modular system
- System-tested protection from potential physical threats
- Compatible with cross-plant IT infrastructures



Application examples

- 1 Micro Data Center, Level E with climate control, see page 382
- 2 Micro Data Center Level A, see page 384
- 3 Micro Data Center, Level B as a compact data center, see page 383

Micro Data Center



System Accessories Page 421

Applications:

- A high level of protection against potential physical threats to the IT
- Targeted configuration components are transformed into the Micro Data Center

Advantages:

- As well as facilitating installation in poorly accessible sites, the modular design also makes it possible to retrospectively enclose existing IT structures
- Extendibility, dismantling and reassembly mean a future-proof investment
- Tested safety – the tests were carried out by accredited institutes and verified with test reports

Protection standards:

- Fire protection fire resistance class F 90 to DIN 4102 Part 2
- Compliance with limits $\Delta T < 50$ K, rel. humidity $< 85\%$ over 30 minutes
- Burglar resistance WK II, III and IV, tool attack analogous to DIN V ENV 1630/1999-04/ WK II
- Smoke protection based on DIN 18 095-2: 1991-03

Material:

- Carbon steel, coated

Color:

- Housing and service door: RAL 7035
- Operator door: RAL 9005

Protection category IP to IEC 60 529:

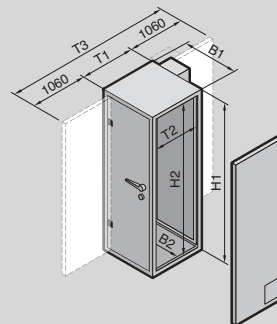
- IP 56

Supply includes:

- Micro Data Center with operator door and service door
- Cable entry in both side elements
- Both doors with key lock

Optional:

- Choice of door catches
- Bifold doors
- Different cable entry systems
- Additional cable entry in the top or base unit
- Different lock variants
- Supporting structure



Note:

- Product based on European standards
- The Micro Data Center configuration is project-specific

Technical details:

Available on the Internet

Level E

Height units U		42	47	42	47	Page
External dimensions inches (mm)	Height (H1)	87 (2210)	95 (2410)	87 (2210)	95 (2410)	
	Width (B1)	43 (1100)	43 (1100)	43 (1100)	43 (1100)	
	Depth (T1)	47 (1200)	47 (1200)	55 (1400)	55 (1400)	
	Depth (T3)	131 (3320)	131 (3320)	139 (3520)	139 (3520)	
Internal dimensions inches (mm)	Height (H2)	80 (2030)	88 (2230)	80 (2030)	88 (2230)	
	Width (B2)	36 (920)	36 (920)	36 (920)	36 (920)	
	Depth (T2)	39 (1000)	39 (1000)	47 (1200)	47 (1200)	
Model No.		7999.009	7999.009	7999.009	7999.009	
Empty weight excluding cooling unit and excluding rack approx. lb (kg)		1455 (660)	1543 (700)	1609 (730)	1764 (800)	
Accessories						
TS IT Network/Server Enclosures		see page	see page	see page	see page	86
DET-AC III/EFD III Fire Alarm and Extinguisher System		see page	see page	see page	see page	387
CMC III Monitoring System		see page	see page	see page	see page	362
PDU – Power Distribution Unit		see page	see page	see page	see page	344
Climate Control for Micro Data Center		from page	from page	from page	from page	385
LCP – Liquid Cooling Package, Rack Depth 39" (1000 mm)		see page	see page	see page	see page	348

Standard protection from:



Fire



Extinguishing water



Corrosive gases



Vandalism



Unauthorized access



Dust



Theft/Burglary



System Accessories Page 421

Applications:

- Basic protection against potential physical threats to IT components. Targeted configuration components are transformed into the Micro Data Center

Advantages:

- Modular layout for installation in locations where access is difficult
- Lower weight than in Level E
- Tested safety – the tests were carried out by accredited institutes and verified with test reports

Protection standards:

- Fire protection fire resistance class EI 90/F 90 to DIN EN 1363-1: 1999 based on DIN 4102-2: 1977
- Burglar resistance RC 2, tool attack analogous to DIN EN 1630/2011-09/RC 2
- Smoke protection based on DIN EN 1634-3: 2005-01

Material:

- Carbon steel, coated

Color:

- Housing and rear door: RAL 7035
- Operator door: RAL 9005

Protection category IP to IEC 60 529:

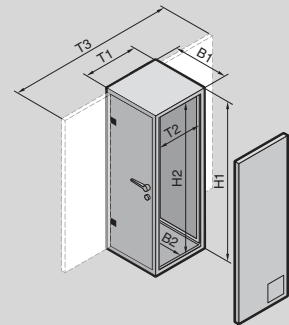
- IP 56

Supply includes:

- Micro Data Center with integrated TS 8 frame
- Front and rear 19" level
- Adjusted air baffle plates
- Each side element is prepared for one cable entry at the bottom and one cable entry at the top
- Operator and service door with swing-lever handle and semi-cylinder

Optional:

- Choice of door catches
- Bifold doors
- Different cable entry systems
- Additional cable entry in the top and base unit
- Different lock variants
- Supporting structure with fire protection



Note:

- Product based on European standards
- The Micro Data Center configuration is project-specific

Technical details:

Available on the Internet

Level B

Height units U		42	47	42	47	Page
External dimensions inches (mm)	Height (H1)	87 (2205)	95 (2405)	87 (2205)	95 (2405)	
	Width (B1)	44 (1115)	44 (1115)	44 (1115)	44 (1115)	
	Depth (T1)	54 (1377)	54 (1377)	62 (1577)	62 (1577)	
	Depth (T3)	129 (3274)	129 (3274)	137 (3474)	137 (3474)	
Internal dimensions inches (mm)	Height (H2)	79 (2000)	87 (2200)	79 (2000)	87 (2200)	
	Width (B2)	36 (905)	36 (905)	36 (905)	36 (905)	
	Depth (T2)	42 (1060)	42 (1060)	50 (1260)	50 (1260)	
	Model No.	7999.709	7999.709	7999.709	7999.709	
Empty weight excluding cooling unit approx. lb (kg)		1312 (595)	1389 (630)	1455 (660)	1543 (700)	
Accessories						
DET-AC III/EFD III Fire Alarm and Extinguisher System		see page	see page	see page	see page	387
CMC III Monitoring System		see page	see page	see page	see page	362
PDU – Power Distribution Unit		see page	see page	see page	see page	344
Climate Control for Micro Data Center		from page	from page	from page	from page	385
LCP – Liquid Cooling Package, Rack Depth 39" (1000 mm)		see page	see page	see page	see page	348

Standard protection from:



Fire



Extinguishing water



Corrosive gases



Vandalism



Unauthorized access



Dust



Theft/Burglary

Micro Data Center



System Accessories Page 421

Applications:

- Protection for server and storage applications
- Protection for business-critical data
- Storage of personal data, e.g. medical practices or tax advisors

Advantages:

- Complete system with built-in cooling and 19" rack
- High level of operational and service-friendliness thanks to the two-door system
- Compatibility with other infrastructure elements
- Tested safety – the tests were carried out by accredited institutes and verified with test reports

Protection standards:

- Fire protection fire resistance class F 90 to DIN 4102 Part 2, compliance with limits $\Delta T < 50$ K, rel. humidity $< 85\%$ over 10 minutes
- Burglar resistance WK II, tool attack analogous to DIN V ENV 1630/1999-04/ WK II

Material:

- Carbon steel, coated

Color:

- Housing and service door: RAL 7035
- Operator door: RAL 9005

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

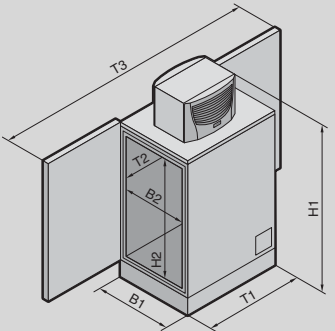
- Security housing with operating and service doors (three-point locking)
- Cable entry in both side elements
- 2.4 kW cooling, designed as a split unit

Technical details:

Available on the Internet

Note:

- Product based on European standards



Level A

Height units U		15	Page
Cooling output BTU (W)		8189 (2400)	
External dimensions inches (mm)	Height (H1)	67 (1699)	
	Width (B1)	32 (806)	
	Depth (T1)	50 (1270)	
	Depth (T3)	108 (2746)	
Internal dimensions inches (mm)	Height (H2)	33 (827)	
	Width BW2)	24 (620)	
	Depth (T2)	40 (1024)	
Weight without internal equipment, including climate control unit, approx. lb (kg)		794 (360)	
Model No. Micro Data Center without built-in 19" rack		7999.898	
Accessories			
19" (482.6 mm) rack, 15 U, depth 39" (1000 mm)		7995.992	
DET-AC III/EFD III Fire Alarm and Extinguisher System		see page	387
CMC III Monitoring System		see page	362
PDU – Power Distribution Unit		see page	344

Standard protection from:



Fire



Extinguishing water



Vandalism



Unauthorized access



Dust

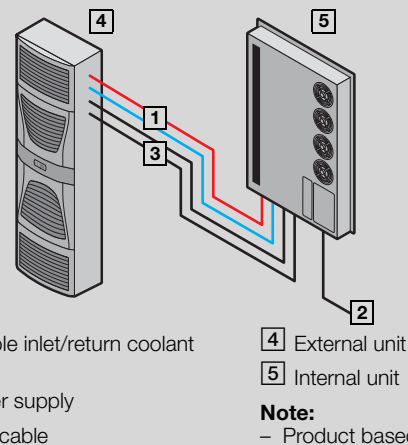


Theft/Burglary



System Accessories Page 421 **Micro Data Center** From Page 382

- Separate, hermetically sealed internal and external circuits
 - No ingress of dusts and flue gases
 - The internal and external unit are connected to one another via refrigerant lines and control cables and are shielded for fire protection
 - Air routing in the Micro Data Center is horizontal. Adjusted air baffle plates ensure targeted air routing. By separating the "cold side" from the "hot side", air short-circuits are avoided, and the cooling efficiency is increased.
 - Use in rooms with climate control in the building or sufficient ventilation, as well as low or no noise requirements. The evaporator coil is fastened to the side panel on the inside of the Micro Data Center, and the external device on the service door.
- Color:**
– RAL 7035
- Protection category IP to IEC 60 529:**
– External circuit, IP 24
– Internal circuit, IP 54
- Supply includes:**
– Internal unit
– External unit
– Coolant lines
– Data and supply cables



Compact Split Cooling Solution

Model No.		3126.230	3126.240
Rated operating voltage V, ~, Hz		400/460, 3~, 50/60	400/460, 3~, 50/60
External unit	Height inches (mm)	62 (1580)	62 (1580)
	Width inches (mm)	20 (500)	20 (500)
	Depth inches (mm)	9 (231)	9 (231)
Internal unit	Height inches (mm)	61 (1544)	61 (1544)
	Width inches (mm)	32 (804)	32 (804)
	Depth inches (mm)	4 (100)	4 (100)
Cooling output 50/60 Hz L35 L35 BTU (W)		8532/10546 (2500/3090)	13652/13686 (4000/4010)
Cooling output 50/60 Hz L35 L50 BTU (W)		7065/7850 (2070/2300)	10307/11092 (3020/3250)
Rated current max. A		3.3/3.5	4.1/4.8
Start-up current A		14.2/14.7	15.2/15.8
Pre-fuse A		6.3 – 10.0	6.3 – 10.0
Motor circuit-breaker		■	■
Rated power P _{el} 50/60 Hz L35 L35 (W)		1275/1615	1620/2125
Rated power P _{el} 50/60 Hz L35 L50 (W)		1525/1920	1825/2835
Refrigeration factor ε = Q _k /P _{el} L35 L35		2.0	2.5
Refrigerant oz (g)		R134a, 53 (1500)	R134a, 102 (2900)
Permissible operating pressure (p. max.) psi (bar)		406 (28)	363 (25)
Temperature range		+68°F...+131°F	+68°F...+131°F
Setting range		+68°F...+131°F	+68°F...+131°F
Noise level dB (A)		< 70	< 72
Weight lb (kg)	External unit	143 (65)	143 (65)
	Internal unit	154 (70)	154 (70)
Temperature control		Comfort controller, factory setting +25°C	

Data Center Container



System Accessories Page 421

Fire protection:

- Fire protection, internal panels: F30, optionally F90 based on DIN 4102/EN 1363, component-tested

Bulkhead system:

- Type: Hard duct DN200
- Dimensions of packing space: 120 x 120 mm
- Protected cable/pipe entries

Raised floor:

- Optimized load distribution
- Equipped with cable/pipe routing
- Variable ventilation plates with DFC

Climate control:

- Customized climate control variants
- Targeted cooling via cold aisle containment
- Energy-efficient DFC cooling (Direct Free Cooling), with no additional external units
- Powerful LCP cooling (Liquid Cooling Package), with minimal space requirements

Power distribution:

- Infeed: CEE wall-mounted unit connector 125 A, 3-phase/N/PE, 400 V/50 Hz
- Busbar system for rack-based power distribution

Customized solutions:

- Interlinked containers, other climate control variants

Optional:

- Up to seven TS IT racks with power supply
- Fire alarm/extinguisher system (Novec 1230)
- Access systems, access door (keyboard, code card)
- Monitoring and management (CMC, RiZone) for monitoring alarm signals, maintenance messages and customer-specific parameters

Note:

- Standard range of models with pre-configured data center types
- The Data Center Container configuration is product-specific
- Product based on European standards

Technical details:

Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

Type	1	2	3	4	5	6	7	8	9
Height inches (mm)	128 (3250)								
Width inches (mm)	118 (3000)								
Depth inches (mm)	239 (6058)	315 (8000)	394 (10000)	453 (11500)	239 (6058)	315 (8000)	394 (10000)	453 (11500)	374 (9500)
Useful area ft ² (m ²)	163 (15.2)	219 (20.4)	276 (25.7)	319 (29.7)	163 (15.2)	219 (20.4)	276 (25.7)	319 (29.7)	219 (20.4)
Model No.	7857.998								
Direct Free Cooling/Liquid Cooling Packages climate control	DFC	DFC	DFC	DFC	LCP	LCP	LCP	LCP	LCP
Max. cooling output BTU (kW)	68243 (20)	68243 (20)	170607 (50)	170607 (50)	68243 (20)	136486 (40)	272971 (80)	341214 (100)	136486 (40)
Redundancy cooling	n+1	n+1	n+1	n+1	n+1	n+1	n+1	n+1	n+1
Heavy-duty raised floor	■	■	■	■	■	■	■	■	■
Plug-and-play power distribution	■	■	■	■	■	■	■	■	■
DN200 hard ducts	3	3	4	4	4	5	5	5	5
Security door, resistance class 2	■	■	■	■	■	■	■	■	■
Optional fittings									
DET-AC XL fire alarm/extinguisher system	■	■	■	■	□	□	□	□	□
UPS uninterruptible power supply	□	□	□	□	□	□	□	□	□
Max. number of racks 42 U, 24" (600 mm) wide, without UPS	6	9	10	12	6	8	11	13	8
Max. number of racks 42 U, 32" (800 mm) wide, without UPS	4	6	7	9	4	6	8	9	6
Higher racks (47 U)	□	□	□	□	□	□	□	□	□
Rack power supply	□	□	□	□	□	□	□	□	□
Monitoring package (CMC III)	□	□	□	□	□	□	□	□	□
RiZone package	□	□	□	□	□	□	□	□	□
Security door, resistance class 3	□	□	□	□	□	□	□	□	□
Additional hard ducts for cable/pipe entry	□	□	□	□	□	□	□	□	□
Metal sun shade	□	□	□	□	□	□	□	□	□

■ Standard □ Option

DET-AC III/EFD III Fire Alarm and Extinguisher System



System Accessories Page 421 IT Network/Server Enclosures Page 90

Advantages:

- Early fire detection
- Automatic extinguishing
 - Innovative extinguisher gas NOVEC™ 1230
 - Eco-friendly
 - Uncritical for IT components, non-conductive
- 19" slide-in equipment with just 1 U
- Testing by VdS (VdS Schadenverhütung GmbH tests and certifies accident prevention equipment components or entire systems in its own laboratories)
- CAN bus interface for direct connection with the CMC III monitoring system

Material:

- Housing: Carbon steel

Color:

- Housing: RAL 7035
- Front trim panel: RAL 9005

Protection category IP to IEC 60 529:

- IP 30

Note:

- All three systems are designed exclusively for use in closed non-accessible enclosure systems
- Product based on European standards

DET-AC III Master

The active extinguisher system for use in sealed 19" server enclosures includes the smoke extraction system and the extinguisher unit in a 19" subrack, built into just 1 height unit. The smoke extraction system is identical to that used in the EFD III. When a main alarm is triggered, the extinguishing process starts automatically. The extinguisher medium used, NOVEC™ 1230, is stored in liquid form in the extinguisher tank. For the extinguishing process, pressure is applied to the tank and the extinguisher medium vaporizes at the extinguisher nozzle and is distributed within the server enclosure. Alarms and malfunctions can be forwarded to the CMC III monitoring system directly via the CAN bus interface. Floating contacts make it possible for the alarms (pre-alarm and main alarm) and the collective fault signal from the device to be forwarded to a superordinate location (monitoring or control system).

EFD III

The EFD III early fire detection system includes the smoke extraction system in a 19" subrack built into just 1 height unit. An integrated fan continuously extracts air from the area to be protected, via a pipeline system. The extracted air is passed over two fire detectors. If smoke aerosols are detected, the highly-sensitive detector emits a pre-alarm, with the second fire detector emitting the main alarm. The correct functioning of the fire detectors is monitored at all times by the evaluation and control electronics on the control board. Alarms and malfunctions can be forwarded to a superordinate location (monitoring or control system) via floating contacts. The integrated CAN bus interface enables direct connection to the CMC III.

DET-AC III Slave

The add-on unit for the DET-AC III Master contains another extinguisher unit. Up to five bayed enclosures may be extinguished in combination. In addition to the DET-AC III Master unit, a DET-AC III Slave unit is used for each additional bayed enclosure and contains the extinguisher gas for the enclosure in question. Detection takes place via the DET-AC III Master unit, even if there are multiple bayed enclosures. When a main alarm goes off, the DET-AC III Master triggers extinguishing at all units simultaneously. The DET-AC III Slave unit can also be used in conjunction with the EFD III unit.

Technical details:

Available on the Internet

	Fire alarm and extinguisher system DET-AC III Master	Early fire detection system EFD III	Additional unit DET-AC III Slave	Page
Model No.	7338.121	7338.221	7338.321	
Height inches (mm)	2 (44) (1 U)	2 (44) (1 U)	2 (44) (1 U)	
Width inches (mm)	19" (482.6) slide-in equipment	19" (482.6) slide-in equipment	19" (482.6) slide-in equipment	
Depth inches (mm)	26 (660)	19 (490)	26 (660)	
Weight, approx. lb (kg)	34 (15.5)	21 (9.6)	28 (12.5)	
Rated voltage V, ~, Hz	100 – 240 (AC), 1~, 50/60	100 – 240 (AC), 1~, 50/60	24 (DC)	
Emergency power supply h	approx. 4	approx. 4	approx. 4	
Also required				
Pipe kit	7338.130	7338.130	7338.130	
Access sensor	7320.530	–	7320.530	369
CAN bus connection cable RJ 45, 1m	see page	see page	see page	371
Slide rails, depth-variable	5501.480	5501.480	5501.480	596

Security Rooms



System Accessories Page 421 **Network/Server Enclosures** Page 90

The Basic Protection Room

The basic protection room provides a high-quality, system-tested solution. The basic protection room is an optimum, modular room-within-a-room solution for protecting IT/infrastructure components such as extinguisher systems, uninterruptible power supplies and climate control equipment. As a flexible modular system, it can be extended while the IT systems are operational.

Advantages:

- System-tested protection standards
- Multi-functional risk coverage
- Dust- and noise-reduced installation
- Dismantling and reassembly plus extendibility = investment security
- May be adapted for use in other room systems, such as the high-MTBF room

Criterion	Standard	
System testing	 Testing the following standards as a complete system or construction	
Fire protection	 ECB-S certifications to EN 1047-2, 50 K temperature increase and 85% rel. humidity up to 24 hours (reheating period), 60 minutes flame impingement time	
	50 K temperature rise and 85% rel. humidity without reheating period, 30 minutes flame impingement time	
	F 120 to DIN 4102	
	F 90 to DIN 4102	
Corrosive fire gases	Acid-gas tightness based on DIN 18 095	
Falling debris	Impact test at 441 lb (200 kg)	
Water	IP X6 to EN 60 529	
	Protection against standing water	
Dust	IP 5X to EN 60 529	
Unauthorized access	WK IV to DIN V ENV 1630, door system only	
	WK III to DIN V ENV 1630, or DIN V 18 103 (ET2)	
	WK II to DIN V ENV 1630	
Explosion	Detonation test	
EMC	Protection against high-frequency irradiation and radiation	

System-tested structures are tested as a complete construction. This comprises the cell structure and built-in modules such as doors, cable shields or ventilation units. By contrast, generic component testing only refers to individual parts.

Conventional construction methods produce room structures made of plasterboard, concrete and other standard construction materials, which cannot offer sufficient protection for data center applications. Conventional construction methods are generally unsuitable for firewall use and are therefore only component-tested.



System Accessories Page 421 **Network/Server Enclosures** Page 90

The High-MTBF Room

The high-MTBF room provides maximum physical protection for data centers and IT system locations. The system has been certified by the ECB (European Certification Body GmbH) to ECB-S regulations. This certification confirms that the high-MTBF room meets the requirements of EN 1047-2 in full. The construction of the security room is also subject to continuous, independent quality monitoring.

Advantages:

- System-tested high-MTBF protection
- Multi-functional risk coverage
- Dust- and noise-reduced installation
- Dismantling and reassembly plus extendibility = investment security
- ECB-S certification
- Independent quality monitoring
- May be adapted for use in other room systems, such as the basic protection room

	Basic protection room	High-MTBF room
	■	■
	—	■
	□	—
	—	■
	■	—
	■	■
	■	■
	■	■
	—	■
	■	■
	—	■
	□	■
	■	—
	—	■
	■	■

■ Standard □ Optional

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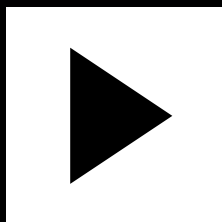
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EPLAN Electric P8 – the high-end tool for the process-oriented project engineering, documentation and management of electrotechnical automation projects – is integrated into the Eplan platform.

- EPLAN Data Portal – over 340,000 data records containing components for electrotechnical project engineering
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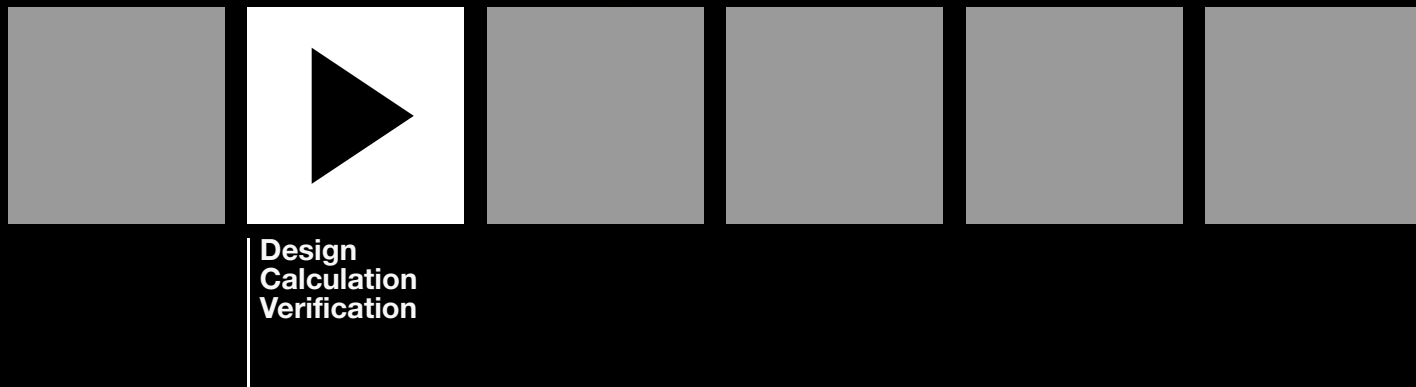
Design – Calculation – Verification

The application-specific design of power distribution components and climate control measures forms a significant part of the engineering associated with an automation system.

Rittal supplies a range of perfect tools to support this activity:

“Rittal Power Engineering” enables you to quickly configure Ri4Power low-voltage switchgear and busbar systems so they comply with the standards; it even includes an integrated design certificate! An optimal design of the climate control system is a crucial aspect of efficient system engineering. This is where we support you with “Therm”, a program that provides a highly accurate and rapid calculation of the climate control requirements and suggests the appropriate design measures – also available as an App for iPhone and Android! The CAD data for the components are essential if planning is to be carried out efficiently; all this data can be accessed online from anywhere in the world via the Part-community section of the Rittal website using the “RiCAD-3D” software package.

- Therm is a calculation program for enclosure climate control
- Rittal Power Engineering – configuration of standards-compliant low-voltage switchgear and busbar systems
- RiCAD-3D – the database containing Rittal CAD data, compatible with all standard CAD systems



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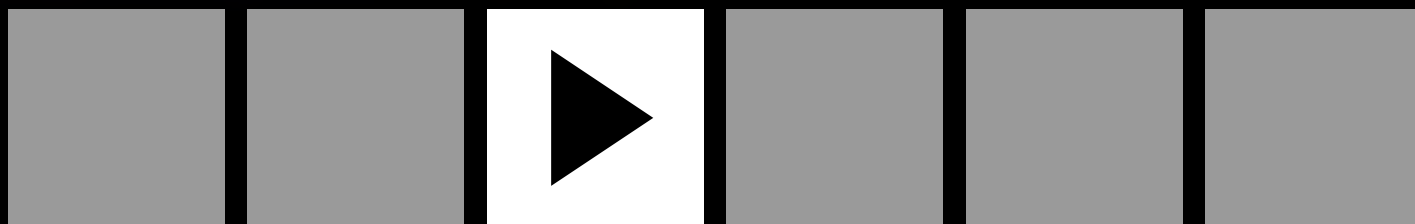
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Components and System Engineering

“Rittal – The System.” With their coordinated and innovative modular approach, Rittal solutions offer the highest levels of cost efficiency for all companies, regardless of size. Our components have been tested with regard to their IP protection category, resistance requirements and the functioning of their grounding conductors – the ideal foundations for compliance with the IEC 61 439 standard.

- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

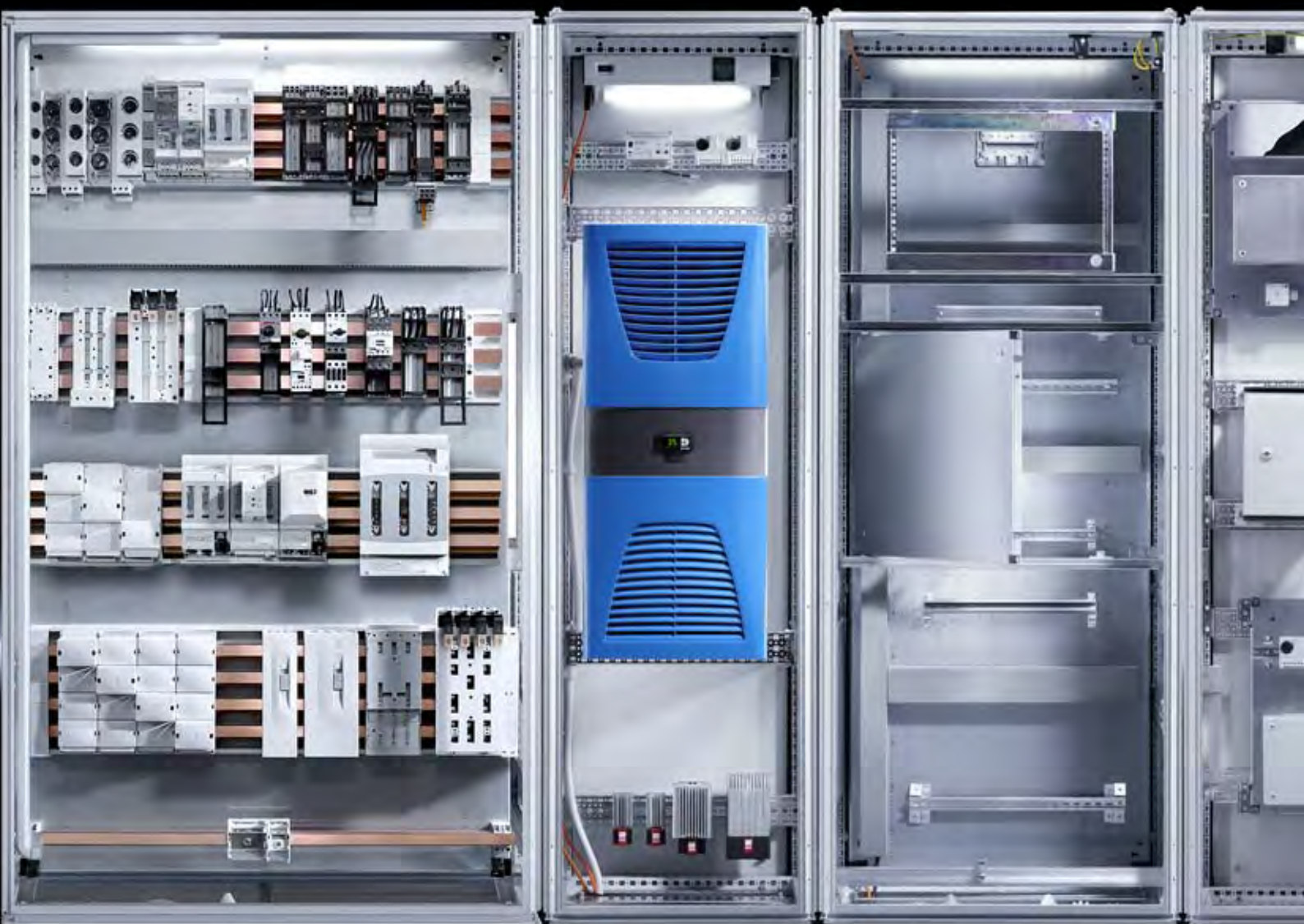


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Virtual Enclosure Design

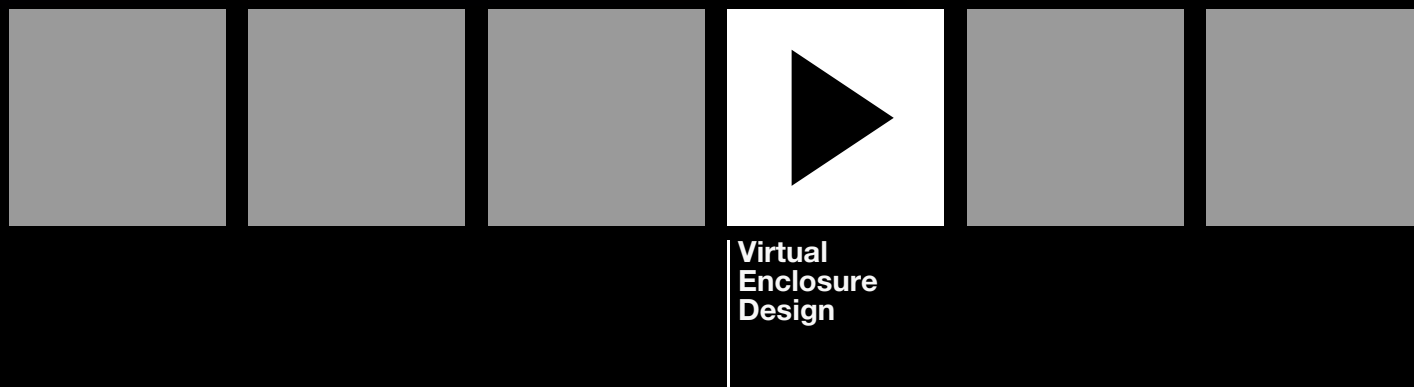
Based on the electrotechnical project and hardware engineering, the accurate design of the technical aspects of the power distribution and climate control systems, and further supported by the technological data associated with Rittal system components, the virtual design of the enclosure assembly is carried out using EPLAN Pro Panel.

EPLAN Pro Panel is a software solution that supports the technological project engineering and 3D design of enclosure assemblies.

Completely integrated in the Eplan platform, consistent product data from the EPLAN Data Portal support the interdisciplinary engineering activities in electrical design and enclosure project engineering, improve project quality and make a lasting contribution towards accelerating the product creation process.

The virtual 3D product data model provides all the necessary data for controlling NC manufacturing systems, automated wire assembly or the manufacture of individual copper bars.

- EPLAN Pro Panel Professional – virtual enclosure design in 3D



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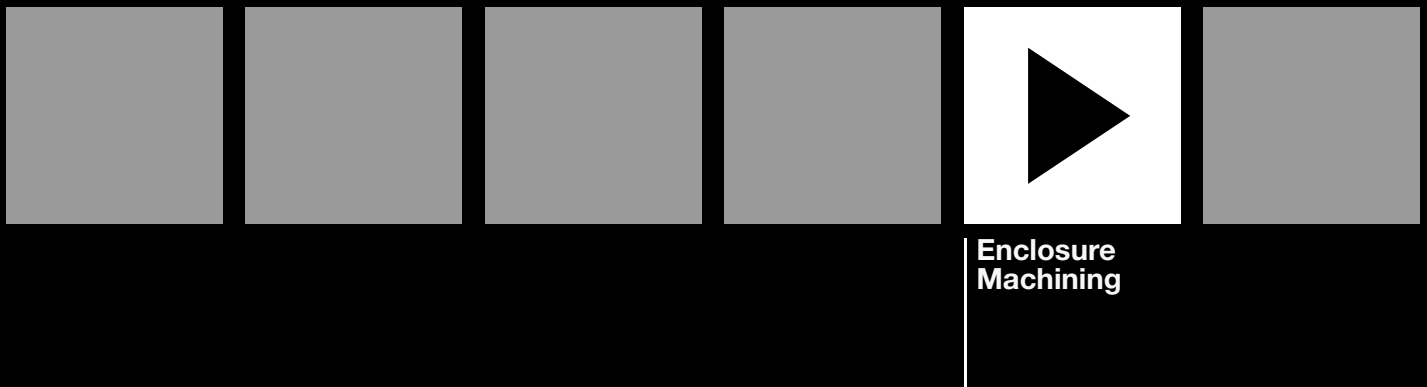
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Enclosure Machining

The NC data output by EPLAN Pro Panel form the basis for the professional machining of enclosures, housings and mounting plates. The “Perforex” machining centers from Rittal Automation Systems control all machining operations (drilling, thread cutting, milling) completely automatically and are fast, accurate and reliable.

The cost-intensive and time-consuming manual reworking of enclosure components becomes a thing of the past – a genuine increase in efficiency!



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Perforex

- The machining center for enclosure construction



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Documentation

Produce your documentation according to the new IEC 61 439 standard. Numerous Rittal components have satisfied the specified requirements for years. We now support you in the production of the necessary documentation with the aid of perfectly coordinated processes in the value-added chain.

- Planning and project engineering with Eplan solutions
- Calculation and design with Rittal tools
- Tested system components from Rittal
- 3D enclosure design with Eplan engineering solutions
- Machining using the Rittal Automation Systems machining center



Documentation

ENCLOSURES

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Documentation



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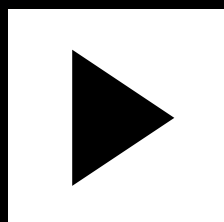
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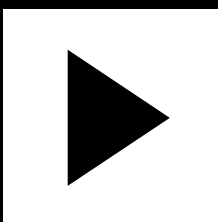
Benefits of the Value Added Chain

Speeding up processes across the entire value added chain offers you potential savings of up to 50%.

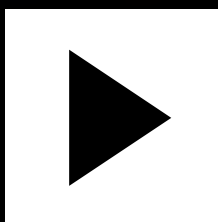
- Shorter throughput times
- Improved quality
- Flexible response to customer requirements
- Faster deliveries
- Cost transparency and control
- Standards-compliant documentation



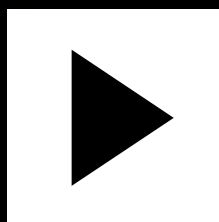
**Planning
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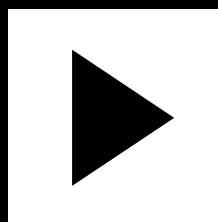
**Design
Calculation
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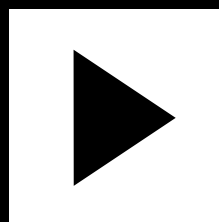
**Components
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**Virtual
Enclosure
Design**



**Enclosure
Machining**



Documentation

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL



nextlevel

for industry

IT INFRASTRUCTURE

SOFTWARE & SERVICES





RiCAD 3D

Greater efficiency in plant design

Regardless of which CAD system you use, RiCAD 3D effectively supports the efficiency and productivity of your plant design.

It includes both 2D and 3D drawings for just about every Rittal product, together with an extensive range of system accessories.

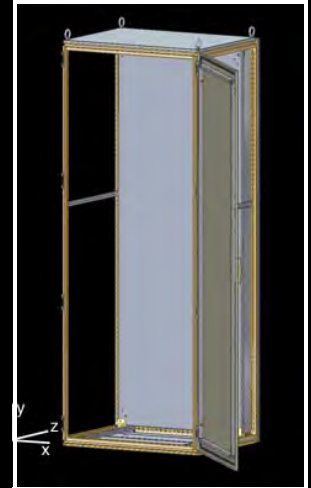
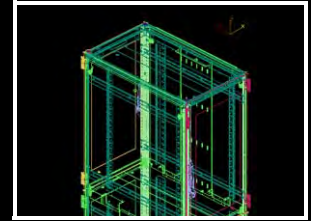
Three ways of retrieving CAD data

- Offline: RiCAD 3D as a database on your hard disk
- Online: Request data via the product page on the Rittal web site
- Online: Access data via the "PARTcommunity" web platform

Advantages for users of RiCAD 3D

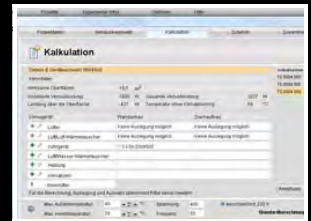
- The intelligent, native, 2D/3D-multiCAD compatible format enables all CAD data to be used in all standard CAD systems.
- With detailed and validated drawings, users can produce their design drawings with the highest levels of planning confidence – and in a fraction of the time it would take in a conventional design environment using simple remodeling.
- The freely selectable level of detailing of the CAD models enables them to be reproduced in a drastically simplified format, bringing about tremendous increases in performance for users.

The Internet provides fast online access to the original data in all standard CAD formats and the ability to download the data directly.



Therm Software

The Therm software package calculates all the climate control requirements, see page 321.



Rittal Power Engineering

Planning software for RiLine busbar systems and Ri4Power low-voltage switchgear with design certificate, see page 231.





Enclosures

Menu-assisted configurators help you select the correct housing and the appropriate series accessories.

In addition to the Rittal article number for the parts list definition, the results also include the request for the relevant CAD data in line with your choice that is appropriate for your CAD system.

TS 8 Configurator

A complete TS 8 enclosure configured in just eight clicks, including parts list and 3D model.

Advantages:

- Easy menu-assisted configuration of a bayed TS 8 enclosure with base/plinth, side panels and the required handle system
- Punched rails and system chassis can be pre-assembled for interior fitting
- This will produce a 3D drawing that can be incorporated directly into the system design or integrated into the CAD system

Available on the Internet



Human/Machine Interface

Operation and monitoring in mechanical and plant engineering is becoming increasingly important. Rittal satisfies the high requirements placed on the "packaging" of sensitive and powerful electronic systems through a consistently modular approach on the HMI.

Design, function and ergonomics are features of the product range.

Rittal provides free Internet tools for the planning and engineering of the command panels and support arm systems.

This enables the appropriate product for your client's application to be designed quickly, easily and safely.

Command Panel Configurator

The online Command Panel configurator enables individual and perfectly tailored panel solutions to be configured. Using a list of relevant questions, the configurator guides you automatically through the individual option screens to your finished system. Intelligent consistency checking is built in to ensure that your configuration can be fully realized without any errors.

Advantages:

- Select the housing that holds the HMI panel to be used (the integrated database contains a variety of commercial panels from various manufacturers)
- Easy navigation thanks to the list of related questions
- Quick compilation of the required features
- Request a quote based on the selected data sets
- Request the 3D CAD model for integration in the system design

Available on the Internet



Support Arm Configurator

for CP 40/60/120/180

The tool precisely defines the correct support arm system using key user-specific parameters such as the jib length, housing weight or required cable cross-section.

Advantages:

- Individual assembly according to the requirements of the application
- Built-in consistency check
- The result is a parts list whose plausibility has been checked

Available on the Internet



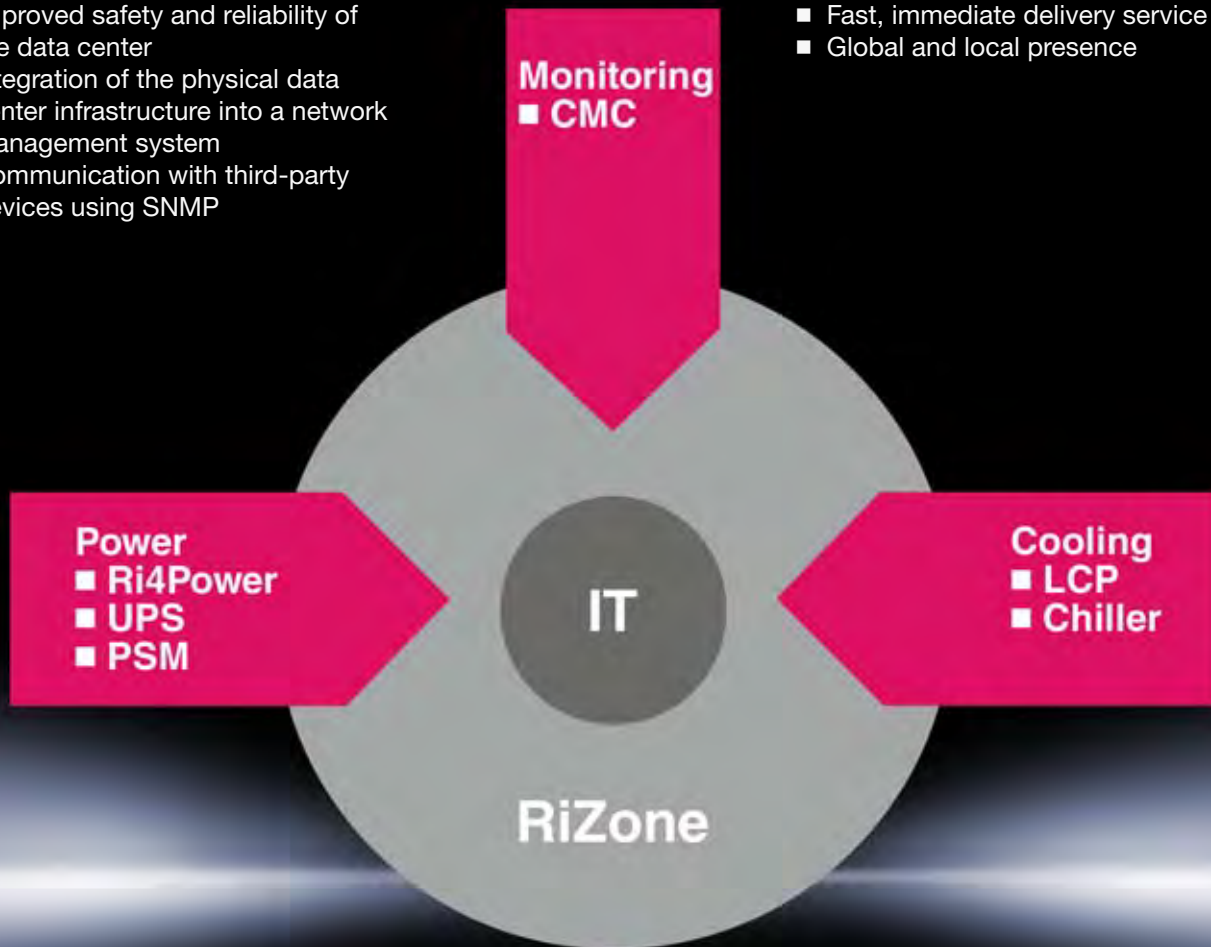
RiZone – customer-oriented, cost-efficient

Six good reasons for choosing RiZone

- Energy optimization throughout the data center
- Straightforward project engineering
- Automatic detection of Rittal components
- Improved safety and reliability of the data center
- Integration of the physical data center infrastructure into a network management system
- Communication with third-party devices using SNMP

Combine the sum of all the advantages of RiZone with the specific advantages that Rittal offers you on every project.

- Comprehensive consultancy services
- Overarching system concept
- Fast, immediate delivery service
- Global and local presence



Measurements from RiZone-compatible components (example)

UPS

- Inverter status
- Status of primary network
- Battery status

CMC

- Temperature
- Humidity
- Access

PSM/PDU

- Current measurements on PSM busbars
- Measuring of power consumption for each outlet with an active PSM
- Switching of individual outlets

Cooling/LCP

- Flow temperature
- Setpoint
- Average supply air temperature

Ri4Power

- Current
- Voltage
- Energy
- Power

Chiller

- Flow and return temperature
- Pump speed
- Operating mode
- Current rating

DCIM – Data Center Infrastructure Management

RiZone – perfect support for IT infrastructure components

Rittal components – from server enclosures through power supplies and climate control to safety and monitoring equipment – can if required be supported during the integration process and in operation by matching sensors and control systems.

- Integration of the physical data center infrastructure into a Data Center Infrastructure Management System
- Easy to configure
- Automatic detection of Rittal components
- Workflow Editor for user-defined situations (what would happen if ...)
- Improved safety and reliability
- Energy optimization in the data center
- Integration of SNMP-compatible third-party devices

RiZone plus Rittal components produce the system solution with the highest levels of energy efficiency.

Note:

- RiZone Appliance Standard
 - RiZone Appliance IP node license
 - Server Shutdown Software
- see page 379

■ Messaging Service

The SNMP and OPC-UA protocols form the interface to the higher-level management systems

■ Workflow Engine

Control loops to optimize the data center and specific escalation management scenarios

■ Reporting Module

Reports containing the data you require when you want them

■ Monitoring Module

Internal watchdog module ensures availability

■ Communication Module

Communication with SNMP-compatible devices within the physical data center infrastructure

■ Autodiscovery

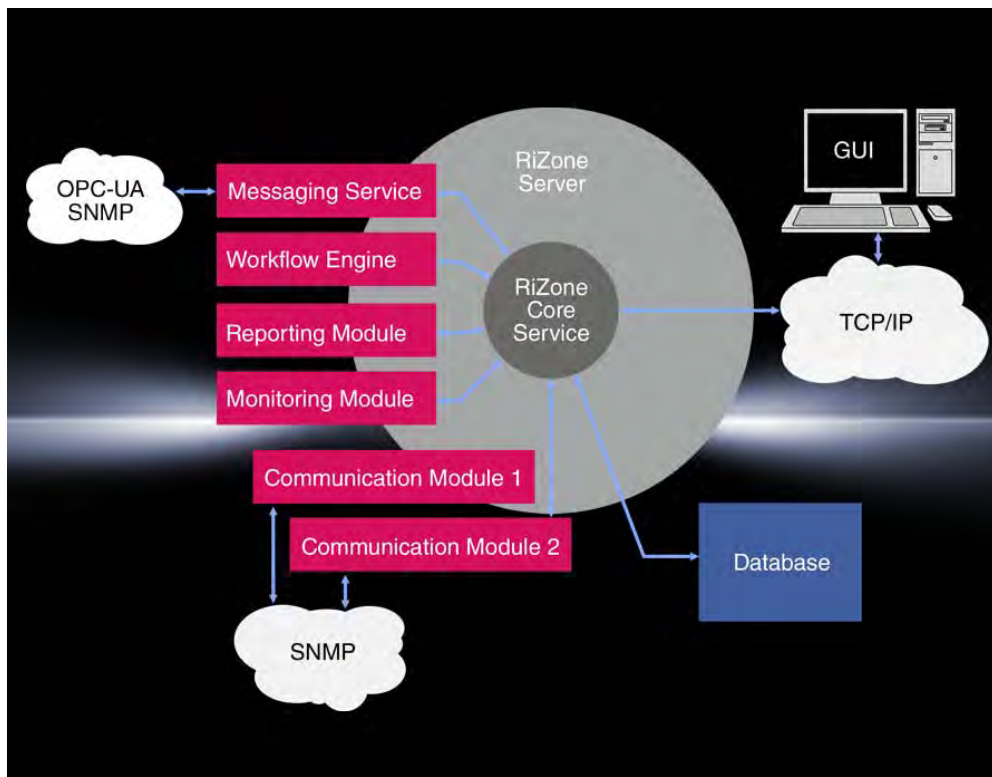
Detection of all SNMP-compatible IT infrastructure components

■ Database

Dedicated SQL database or interface to external MS-SQL and Oracle databases

■ Administration

Configuration of RiZone (user and rights management, network integration)







Your direct line to our service facility

No matter when, where or how you'd like to contact us, we'll be there for you! To reach us, pick up the phone, send us an e-mail or visit our web site. Quick, simple and reliable.

Your advantages:

- International availability
- 24 hours a day
- In your local language

Faster

- Shorter distances, prompt communication:
Thanks to regional Service Centers and Service Partners
- Perfect interaction between Service and Engineering

Better

- Customized service solutions from a single source
- All Rittal service engineers across the globe are trained to the highest levels

Everywhere

- Over 150 Service Partners with more than 1000 service engineers

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☎ +55 11 36 22 23 77

Individual services for the entire production cycle

With Rittal products your production process is always in the right hands.

Because Rittal Lifecycle Management goes well beyond the statutory liability for defects and the voluntary manufacturer's guarantee. In this way Rittal ensures the productivity of your systems in the long term. And even this is tailored to your requirements, as you decide the Service Level you need to reduce the risk of loss of production.

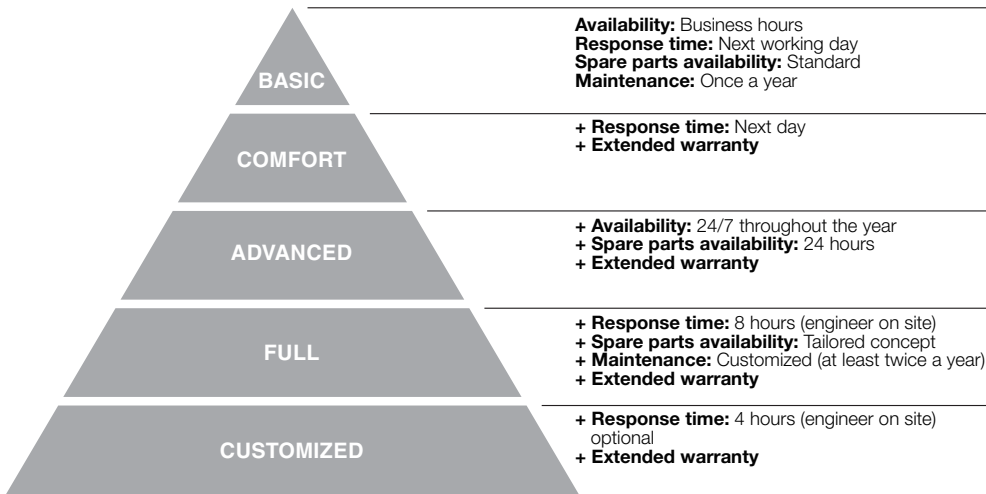
Your advantages:

- Retains the value of your systems/plants
- Less downtime
- Cost management over an extended period



Flexible service contracts: Solutions that meet your requirements

Features of our Rittal service packages at a glance:



Your advantages:

- Engineers in your locality for fast response times
- Retain the value of your systems
- Warranty extension to up to 5 years
- Spare parts held in stock
- Cost transparency

5 years

Manufacturer's guarantee

In conjunction with a
signed Service contract



We strive for perfection in everything we do



Spare parts – whenever and wherever

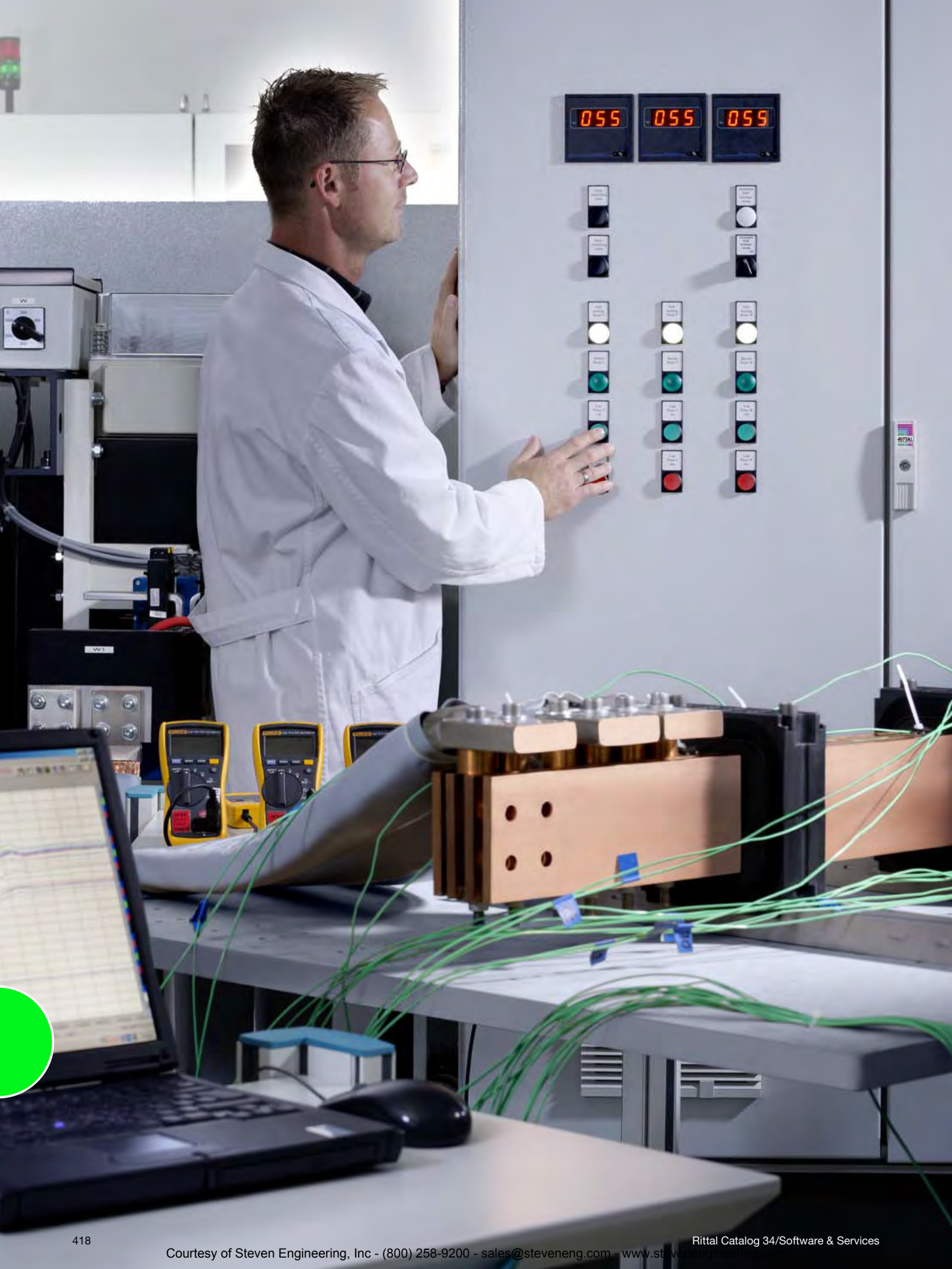
Globally available spare parts produce added value

Professional spare parts management in the perfect package to ensure the maximum availability of spare parts all over the world and modular Service contracts that can be precisely tailored to meet your specific requirements: This is what our international Service concept offers you. You can control many of the details in a Service contract: For example, the availability of spare parts specifically for your plant/system. International service: Whenever and wherever you need it.

Your advantages:

- Stockholding of client-specific components regulated by an appropriate Service contract
- Decentralized stockholding for quick and flexible access to your spare parts
- Approved original spare parts from the manufacturer







Quality management is a must, a quality philosophy is an attitude

“Rittal – The System.” stands for rigorous quality management and the continuous improvement of products, services and internal processes.

The Rittal quality management system ensures that regulations and standards are complied with and that individual customer requirements are satisfied. Furthermore, in our supplementary Rittal standards we lay down the highest demands in respect of the quality of our products. The rigorous Rittal quality philosophy guarantees consistently high standards and ensures the global use of all our products through numerous international licenses and approvals.

The quality of our products is not the sole focus of our attention - we also strive for the highest quality in our processes and services.

All internal processes are continuously developed in quality control loops and are subjected to internal audits. The many successful external system and customer audits that we undergo every year confirm our improvements and high standards.

Rittal supports you right from the outset

- Project planning of technical specifications
- Prototype construction, testing and simulation
- Manufacture and assembly
- Warehouse service and timely delivery
- Personal point of contact for the duration of the project

Accredited Rittal testing laboratory

- Simulation of climatic conditions
- Dynamic and static load tests
- 3D measurements
- Testing of IP protection categories and NEMA type ratings
- Salt spray tests
- Electrical safety and function tests
- Performance testing of cooling units and heat exchangers
- Material and substance testing



Rittal – The System.

Faster – better – everywhere.



System Accessories

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The Rittal Base/Plinth System Flex-Block



Saves time

- Fast assembly as base/plinth components clip together easily
- Easy to bay thanks to tool-free baying clip
- Easy to transport enclosure in empty and unconfigured state by removing base/plinth trim panel



Easy to install

- Tool-free assembly of all base/plinth components
- Tool-free assembly of accessories, e.g., baying and leveling feet
- Symmetrical enclosure widths and depths
- A combination of 100 and 200 mm high trim panels can be used with 200 mm high Flex-Block



Large mounting surface

- Space-saving cable routing in base/plinth, allowing more space for enclosure fittings
- Expansion using punched rail – can be clipped in either from the inside or from the outside
- Flexible configuration: punched rail with 25 mm hole pattern



Base/Plinth

Flex-Block Base/Plinth System

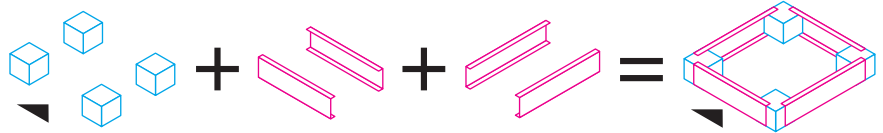


The Rittal Base/Plinth System

Flex-Block

Flexible base/plinth system for practically every application. Thanks to separate package units of corner pieces and trim panels, the system can be arranged individually for every scenario.

The weight of the enclosure is supported by the corner pieces so that the trim panels can be easily clipped in or out at any time. The base/plinth trim panels are symmetrical and can be freely interchanged with one another in both width and depth. This results in never-before seen levels of flexibility and promises major savings when enlarging bases/plinths.



One model number for the **Flex-Block corner pieces** at the front and back

One model number for the **Flex-Block trim panels** at the front and back

One model number for the **Flex-Block trim panels** at the side

A complete **Flex-Block base/plinth**

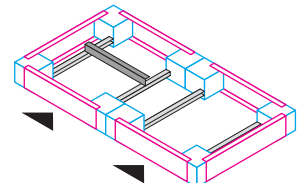
Base/plinth, height 4" (100 mm)							
Base/plinth, height 8" (200 mm) with 8" (200 mm) panels							
Base/plinth, height 8" (200 mm) Combination 4" (100 mm) and 8" (200 mm) trim panels							

Function and Cost Benefits

Order scope	Beneficial features	High potential for savings with Flex-Block 4" (100 mm) in comparison to complete Flex-Block base/plinth
3 packs of Flex-Block corner pieces	The enclosures are sturdily supported on the corner pieces. Can be transported by high-lift truck or lift truck when used with individual enclosures.	12 trim panels
3 packs of Flex-Block corner pieces 4 packs of Flex-Block corner pieces	Completely closed row of bases/plinths, no panels between the enclosure fields. This results in more space for installation and cable entry.	4 trim panels
3 packs of Flex-Block corner pieces 2 packs of Flex-Block trim panels	Trim panels are only needed in visible areas, no panels between the enclosure fields. This results in more space for installation and cable entry.	8 trim panels

Other options:

- Individual cable clamping solutions can be fitted in any enclosure field using system accessories
- Depending on the requirement, either 4" (100 mm) high trim panels or 8" (200 mm) high trim panels can be used with 8" (200 mm) Flex-Block corner pieces



Flex-Block Base/Plinth System

Flex-Block Corner Pieces

for TS, TS IT, SE, PC

High-strength plastic corner pieces for individual tool-free assembly with Flex-Block trim panels and accessories.

Material:

- Corner pieces: Fiberglass-reinforced plastic
- Cover caps: ABS

Color:

- RAL 9005

Supply includes:

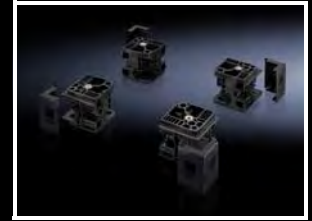
- 1 set =
4 corner pieces
4 cover caps
Assembly components for mounting on the enclosure

Height of corner pieces inches (mm)	Model No.
4 (100)	8100.000
8 (200)	8200.000



Accessories:

- Flex-Block trim panels, see page 425
- Punched rail 23 x 23 mm, see page 527
- Baying clip 8000.100, see page 425
- Adapter sleeve 8000.500, see page 437
- Base mounting plate 2817.000, see page 430



Flex-Block Trim Panels

for Flex-Block corner pieces

For tool-free assembly. With symmetrical enclosure dimensions, trim panels have identical width and depth.

Material:

- Carbon steel

Color:

- RAL 9005

Supply includes:

- 1 set = 2 trim panels

4" (100 mm) high, solid

For enclosure width and depth in inches (mm)	Model No.
12 (300)	8100.300
16 (400)	8100.400
20 (500)	8100.500
24 (600)	8100.600
32 (800)	8100.800
39 (1000)	8100.010
47 (1200)	8100.120
63 (1600)	8100.160
71 (1800)	8100.180

8" (200 mm) high, solid

For enclosure width and depth in inches (mm)	Model No.
12 (300)	8200.300
16 (400)	8200.400
20 (500)	8200.500
24 (600)	8200.600
32 (800)	8200.800
39 (1000)	8200.010
47 (1200)	8200.120

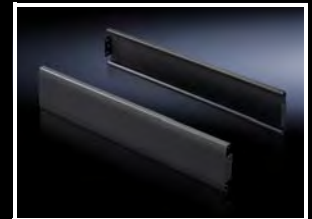
4" (100 mm) high, vented

For enclosure width and depth in inches (mm)	Model No.
24 (600)	8100.602
32 (800)	8100.802



Accessories:

- Filter mats for vented Flex-Block trim panels 7583.500, see page 431



Baying Clip

for baying the Flex-Block corner pieces

Tool-free baying of Flex-Block base/plinths using a simple clip system.

Material:

- Fiberglass-reinforced plastic

Color:

- RAL 9005

Packs of	Model No.
12 pc(s).	8000.100



Base/Plinth

TS Base/Plinth

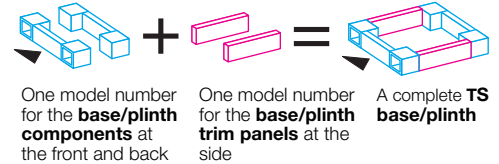
The Variety of a Modular Base/Plinth System

Regardless of the enclosure depth:

The front and rear base/plinth components, prefitted with corner pieces, are always the same for the chosen width.

You only have to choose the side trim panels to match the enclosure width and the desired base/plinth configuration. Thanks to the modular concept, considerable benefits in cost and function can be achieved.

Mounting onto the enclosure can be easily effected from the outside. The space inside the base/plinth offers a range of options for the cable management mounting levels.



Base/ plinth height inches (mm)	Basic form	Cable routing options				
4 (100)					Stabilization of bayed bases/ plinths	
8 (200)						

Function and Cost Benefits

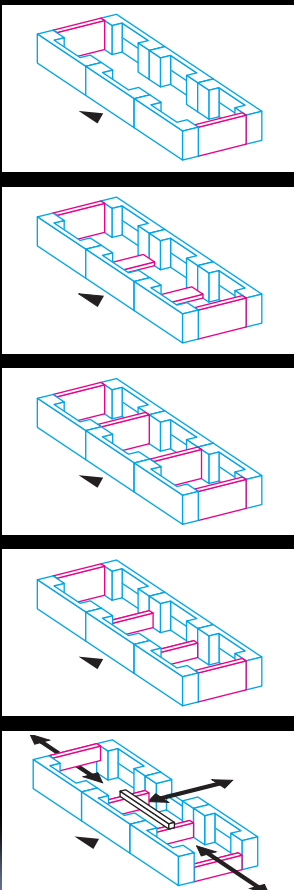
Fewer parts, more possibilities, lower costs for procurement, warehousing and assembly – the formula behind the modular base/plinth system.

The following table shows just five of the multitude of possible solutions on three bayed bases/plinths (200 mm high) and the potential savings on trim panels in comparison to a 200 mm base/plinth system each with two 100 mm high side panels.

Order scope	Beneficial features	Potential saving instead of 12x 4" (100 mm) trim panels
3 packs of base/plinth components 1 pack of base/plinth trim panels, 8" (200 mm) high	Continuous cable chamber	2x 8" (200 mm) trim panels
3 packs of base/plinth components 1 pack of base/plinth trim panels, 8" (200 mm) high 1 pack of base/plinth trim panels, 4" (100 mm) high 1 pack of base/plinth baying brackets 8601.100 (packs of 20 pieces) 4 pcs are needed for this solution	Additional stabilization for transport through base/plinth trim panels turned through 90°	2x 8" (200 mm) trim panels 2x 4" (100 mm) trim panels
3 packs of base/plinth components 2 packs of base/plinth trim panels, 8" (200 mm) high	Base/plinth partitioned from each other	4x 8" (200 mm) trim panels
3 packs of base/plinth components 1 pack of base/plinth trim panels, 8" (200 mm) high 1 pack of base/plinth trim panels, 4" (100 mm) high	Additional base/plinth connection	2x 8" (200 mm) trim panels 2x 4" (100 mm) trim panels

Other options:

- Cable entry at side by fitting a 4" (100 mm) base/plinth trim panel (top or bottom)
- Cable entry from rear by removing one or more trim panels of the base/plinth components
- Cable clamp rail fitted on the 4" (100 mm) high trim panels



Base/Plinth Components, Front and Rear

Carbon steel for TS, TS IT, SE, CM, TP, PC

Base/plinth component consisting of one trim panel and two prefitted corner pieces. On 200 mm high base/plinth components, one trim panel is in two parts to allow for cable entry.

Material:

- Base/plinth components: Carbon steel
- Cover caps: Plastic

Surface finish:

- Spray-finished

Color:

- Cover caps: RAL 9005/7035

Supply includes:

- 1 set =
2 base/plinth components, 4 cover caps,
4 screws and captive nuts M12 for mounting
on the enclosure



Also required:

- Depending on application/load, base/plinth trim panels, side, see page 428

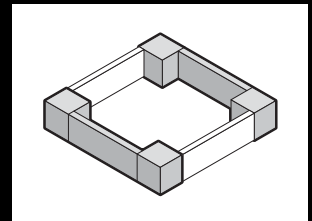


Accessories:

- Base mounting plate 2817.000, see page 430

Technical details:

Available on the Internet



4" (100 mm) high, color: RAL 7022

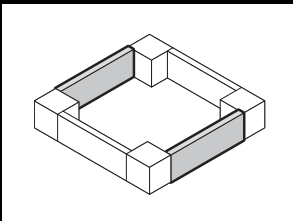
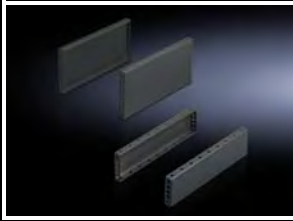
For enclosure width inches (mm)	Version	Model No.
12 (300)	Solid	8601.915
16 (400)	Solid	8601.400
20 (500)	Solid	8601.500
24 (600)	Solid	8601.600
32 (800)	Solid	8601.800
33 (850)	Solid	8601.850
39 (1000)	Solid	8601.000
43 (1100)	Solid	8601.300
47 (1200)	Solid	8601.200
63 (1600)	Solid	8601.920
71 (1800)	Solid	8601.980

8" (200 mm) high, color: RAL 7022

For enclosure width inches (mm)	Version	Model No.
12 (300)	Solid	8602.915
16 (400)	Solid	8602.400
20 (500)	Solid	8602.500
24 (600)	Solid	8602.600
32 (800)	Solid	8602.800
33 (850)	Solid	8602.850
39 (1000)	Solid	8602.000
43 (1100)	Solid	8602.100
47 (1200)	Solid	8602.200
63 (1600)	Solid	8602.920
71 (1800)	Solid	8602.980

Base/Plinth

TS Base/Plinth



Base/Plinth Trim Panels, Side

Carbon steel

for base/plinth components, front and rear

To mount between the base/plinth components. For height 200 mm, two 100 mm base/plinth trim panels can be used. Base/plinth panels (100 mm) can be installed turned through 90° to provide stabilization for bayed base/plinth components.

Material:

- Carbon steel

Surface finish:

- Spray-finished

Supply includes:

- 1 set =
2 base/plinth trim panels including parts for attaching to the base/plinth components



Also required:

- Base/plinth baying brackets 8601.100, see page 428, when fitting base/plinth trim panels turned through 90°



Accessories:

- Fastening bolts for base/plinth, see page 430

Technical details:

Available on the Internet

4" (100 mm) high, color: RAL 7022

For enclosure depth inches (mm)	Model No.
12 (300)	8601.030
16 (400)	8601.040
20 (500)	8601.050
24 (600)	8601.060
32 (800)	8601.080

8" (200 mm) high, color: RAL 7022

For enclosure depth inches (mm)	Model No.
12 (300)	8602.030
16 (400)	8602.040
20 (500)	8602.050
24 (600)	8602.060
32 (800)	8602.080

Base/Plinth Baying Brackets

for TS base/plinth

Essential where trim panels are mounted turned through 90° for additional stabilization when bayed enclosures are moved.

Additional brackets required for each panel: 2 pcs.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Screws M8 x 16 mm



Packs of	Model No.
20 pc(s).	8601.100

Cable Chamber

for TS, SE

With unique hole profile for individual system accessories.

Height: 200 mm

Material:

– Carbon steel

Color:

– RAL 7035

Supply includes:

- Carbon steel trim panels front and rear
- Assembly components for mounting on the enclosure

For enclosures		Model No.
Width inches (mm)	Depth inches (mm)	
16 (400)	20 (500)	8600.455
16 (400)	24 (600)	8600.465
24 (600)	20 (500)	8600.655
24 (600)	24 (600)	8600.665
32 (800)	20 (500)	8600.855
32 (800)	24 (600)	8600.865
47 (1200)	20 (500)	8600.255
47 (1200)	24 (600)	8600.265



Accessories:

- Side panels for cable chamber, see page 429

Technical details:

Available on the Internet



Sidewalls

for cable chamber

Height: 200 mm

Material:

– Carbon steel

Color:

– RAL 7035

Supply includes:

- Assembly components

For enclosure depth inches (mm)	Packs of	Model No.
20 (500)	2 pc(s).	8600.510
24 (600)	2 pc(s).	8600.520



Transport Castors

for TS base/plinth

Locate onto the base/plinth corner piece, height 100 or 200 mm.

Load capacity:

- Max. permitted load per twin castor:
Static 100 kg

Supply includes:

- 1 set =
4 twin castors, 2 x with, 2 x without locks

Color:

– RAL 7022

Floor clearance inches (mm)	Model No.
4 (100)	8800.390



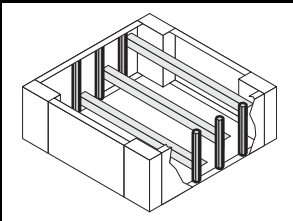
Also required:

- Base/plinth trim panels, side, see page 428



Base/Plinth

TS Base/Plinth



Base Mounting Plate

for

- TS Base/Plinth
- Flex-Block Base/Plinth System
- Base/Plinth, Complete

To fasten the base/plinth to the floor without moving the enclosure or bayed enclosure suite. For assembly screws up to 12 mm Ø.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Packs of	Model No.
10 pc(s).	2817.000

Fastening Bolts

for

- TS Base/Plinth
- Base/Plinth, Complete
- Base/Plinth, Stationary

Mounted on base/plinth trim panels, side. The fastening bolt is clamped into place to allow the installation of cable clamp rails. Tighten using hex wrench, width across flats 19 mm (0.74").

Material:

- Hexagon steel section

Surface finish:

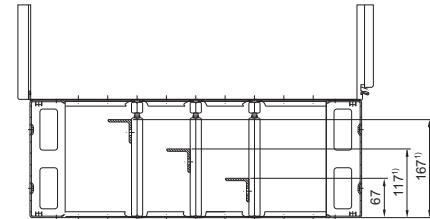
- Zinc-plated

For base/plinth trim panel Height inches (mm)	Packs of	Model No.
4 (100)	10 pc(s).	2819.000
8 (200)	10 pc(s).	2819.200



Accessories:

- Cable clamping rail, see page 574



¹⁾ Only with height 200 mm (8")

Leveling Component

for TS base/plinth

For retrospective leveling on uneven floors at the installation site up to a maximum of 15 mm. Installed through the corner piece of the base/plinth component. Adjust using hex wrench, width across flats 19 mm (0.74").

Advantages:

- A door offset caused by uneven flooring can be corrected
- Installed on the assembled enclosure, i.e. no need to plan leveling in advance

Load capacity:

- Max. permitted static load:
2500 N per leveling component (check the load capacity of the floor)

Supply includes:

- Assembly components

For base/plinth height inches (mm)	Packs of	Model No.
4 (100)	4 pc(s).	2891.000
8 (200)	4 pc(s).	2892.000

Cover Cap

for TS base/plinth components

As a replacement.

Material:

- Plastic ABS

Color:

- RAL 9005

For base/plinth height inches (mm)	Packs of	Model No.
4 (100)	4 pc(s).	8601.130
8 (200)	4 pc(s).	8601.140



Base/Plinth, Stationary

for PC

Design matches the housing, height 100 mm, with front projection.

Material:

- Carbon steel, 2.0 mm

Color:

- RAL 7035
- Design component, front: RAL 7015

Supply includes:

- 1 design component, front
- 1 base/plinth component, rear
- 2 base/plinth trim panels, side

For depth inches (mm)	Model No.
24 (600)	8800.920



Accessories:

- Twin castors 7495.000, see page 436
- Leveling feet 4612.000, see page 435
- Fastening bolts for cable clamping rails 2819.000, see page 430
- Support bracket 4183.000, see page 535

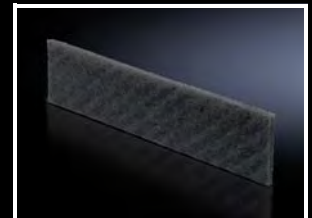


Filter Mat

for Flex-Block, vented version

To cover the trim panel in the Flex-Block. The filter mat is simply pushed into the trim panel from the rear. Can be shortened to required length.

For enclosure width inches (mm)	Packs of	Model No.
24/32 (600/800)	4 pc(s).	7583.500



Base/Plinth

TS Base/Plinth



Base/Plinth Components, Front and Rear

Stainless steel for TS, SE

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed, grain 400

Supply includes:

- Mounting accessories for mounting on the enclosure

100 mm high:

- 2 trim panels front/rear

200 mm high:

- 2 corner pieces with removable trim panel
- 1 trim panel front/rear

For enclosure width inches (mm)	Height inches (mm)	Model No.
24 (600)	4 (100)	8701.600
32 (800)	4 (100)	8701.800
39 (1000)	4 (100)	8701.000
47 (1200)	4 (100)	8701.200
24 (600)	8 (200)	8702.600
32 (800)	8 (200)	8702.800
39 (1000)	8 (200)	8702.000
47 (1200)	8 (200)	8702.200



Accessories:

- Base/plinth trim, modular (perforated plate), see page 432



Base/Plinth Trim Panels, Side

Stainless steel

for base/plinth components, front and rear

To mount between the base/plinth components. For height 200 mm, two 100 mm base/plinth trim panels can be used. Base/plinth panels (100 mm high) can be installed turned through 90° to provide stabilization for bayed base/plinth components.

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed, grain 400

Supply includes:

- 2 base/plinth trim panels including parts for attaching to the base/plinth components

For enclosure depth inches (mm)	Height inches (mm)	Model No.
16 (400)	4 (100)	8701.040
20 (500)	4 (100)	8701.050
24 (600)	4 (100)	8701.060
32 (800)	4 (100)	8701.080
16 (400)	8 (200)	8702.040
20 (500)	8 (200)	8702.050
24 (600)	8 (200)	8702.060



Also required:

- Base/plinth baying brackets 8601.100, see page 428, when fitting base/plinth trim panels turned through 90°



Accessories:

- Fastening bolts for base/plinth, see page 430

Technical details:

Available on the Internet



Base/Plinth Trim, Modular

for

■ TS Base/Plinth, Stainless Steel

■ Base/Plinth, Complete, Stainless Steel

For secure cable routing in the base/plinth between the floor and the enclosure.

Width: 175 mm

Material:

- Stainless steel 1.4301 (AISI 304)

Supply includes:

- 4 base/plinth trim panels

Note:

- One base/plinth trim is needed per 200 mm base/plinth width

For enclosure depth inches (mm)	Packs of	Model No.
16 (400)	4 pc(s).	2907.000
20 (500)	4 pc(s).	2908.000
24 (600)	4 pc(s).	2913.000



Accessories:

- Cable tie 2597.000, see page 576

Base/Plinth, Complete**Carbon steel
for AE**

Trim panels at the front and rear with fitted corner pieces and side trim panels.

Material:

- Carbon steel

Surface finish:

- Spray-finished

Color:

- RAL 7022

Supply includes:

- Mounting accessories for mounting on the enclosure

100 mm high:

- 4 corner pieces
- 2 trim panels front/rear
- 2 trim panels side

200 mm high:

- 4 corner pieces
- 1 trim panel front/rear x 200 mm
- 2 trim panel front/rear x 100 mm
- 4 trim panels side

Base/plinth for AE, 4" (100 mm) high

For enclosures		Base/plinth depth inches (mm)	Model No.
Width inches (mm)	Depth inches (mm)		
24 (600)	12 (300)	11 (279)	2816.200
32 (800)	12 (300)	11 (279)	2818.200
39 (1000)	12 (300)	11 (279)	2801.200

Base/plinth for AE, 8" (200 mm) high

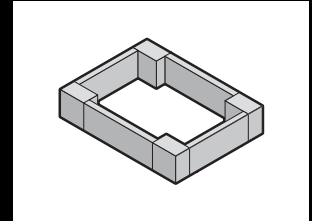
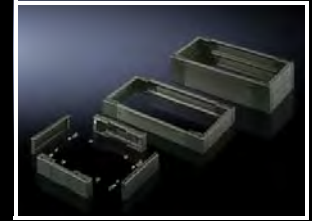
For enclosures		Base/plinth depth inches (mm)	Model No.
Width inches (mm)	Depth inches (mm)		
24 (600)	12 (300)	11 (279)	2826.200
32 (800)	12 (300)	11 (279)	2828.200
39 (1000)	12 (300)	11 (279)	2802.200

**Accessories:**

- Fastening bolts, see page 430
- Base mounting plate, see page 430

Technical details:

Available on the Internet

**Base/Plinth, Complete****Stainless steel
for one-piece consoles, stainless steel**

Height: 100 mm

Where necessary, two base/plinths can be installed one above the other.

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed

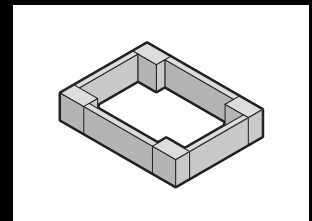
Supply includes:

- Mounting accessories for mounting on the enclosure
- 2 trim panels front/rear
- 2 trim panels side

For enclosures/consoles		Model No.
Width inches (mm)	Depth inches (mm)	
24 (600)	16 (400)	2865.000
32 (800)	16 (400)	2869.000
39 (1000)	16 (400)	2867.000
47 (1200)	16 (400)	2870.000

**Accessories:**

- Leveling feet, see page 434
- Base/plinth trim, modular (perforated plate), see page 432



Base/Plinth

Base/Plinth



Leveling Feet

Mounted directly underneath the TS base/plinth and complete base/plinth. For unhindered access e.g. when cleaning the floor, and to even out for floor irregularities.

Load capacity:

- Max. permitted static load: 400 kg per leveling foot

Adjustment range:

- M12: 55 – 125 mm
- M16: 45 – 120 mm

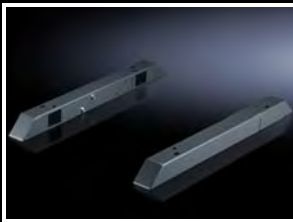
Material:

- Stainless steel 1.4301 (AISI 304)

Thread	Packs of	Model No.
M12	4 pc(s).	2889.000
M16	4 pc(s).	2890.000

**Possible alternative:**

- Hygienic Design leveling feet, see page 164



Cross Member

for TS, SE, CM, TP, PC adjustable

- To increase stability
- Height 70 mm
- Adjustable to the housing depth

To increase stability, the cross members project 138 mm beyond the enclosure base frame at the front and rear. The rear part can be extended and re-screwed for deeper enclosures. For screw-fastening to base and enclosure with side, front and rear mounting holes. The castors and leveling feet may be secured to the M12 welded nuts.

Material:

- Carbon steel

Surface finish:

- Spray-finished

Color:

- RAL 7015

For housing depth inches (mm)	Packs of	Model No.
16 (400)	1 set(s)	8601.450
20 (500)		
24 (600)	1 set(s)	8601.680
32 (800)		

**Accessories:**

- Twin castors 6148.000, 7495.000, see page 436
- Leveling feet 4612.000, 7493.100, see page 435

Technical details:

Available on the Internet



Stabilizer

for TS IT

The pull-out stabilizer is quickly and easily retrofitted to the lower frame of the server racks and only extended when necessary.

Load capacity:

- Up to max. 150 kg static load

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

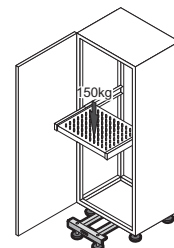
Note:

- The stabilizer cannot be used together with base plates, base frames or bases/plinths

Enclosure depth inches (mm)	Model No.
39 (1000)	7825.250

**Accessories:**

- Leveling feet, see page 435 and/or
- Transport kit, see page 436



Leveling feet**for TS, TS IT, SE, PC**

To compensate for floor irregularities. M12 fastening screw thread.

Optionally with hex socket for adjustment from the inside of the enclosure.

Load capacity:

- Max. permitted static load:
approx. 300 kg per leveling foot

Hex socket	Adjustment height inches (mm)	Packs of	Model No.
without	0.7 – 1.7 (18 – 43)	4 pc(s).	4612.000

**Also required:**

- When mounting on a TS base/plinth:
8800.220 base/plinth adapter, see page 437

Technical details:

Available on the Internet

**Leveling feet****for TS, TS IT**

To compensate for floor irregularities. Can be mounted on the enclosure and on the base/plinth.

Length of thread: 51 mm

Thread type: M12

Load capacity:

- Max. permitted static load:
363 kg per leveling foot

Packs of	Model No.
4 pc(s).	9961.504

**Leveling feet****85 – 115 mm high**

Mounted on TS, SE and PC enclosures, for easier floor cleaning and to compensate for floor irregularities of ± 15 mm.

Height: 100 mm

Load capacity:

- Max. permitted static load:
350 kg per leveling foot

Material:

- Stainless steel 1.4301 (AISI 304)

Supply includes:

- Mounting accessories for the enclosure

Packs of	Model No.
4 pc(s).	2859.000

**Possible alternative:**

- Hygienic Design leveling feet, see page 164



Base

Base



Twin castors

M12 x 20 assembly screw thread.

For:

- TS 8 baying system
- SE 8 free-standing enclosure system
- PC enclosure system
- Pedestal base plate
- 6106.200/6106.300 pedestal
- TopConsole pedestals
- Industrial workstations
- Data racks



Also required:

- When mounting on a TS base/plinth:
Base/plinth adapter for 8800.290 twin castors,
see page 437

	Max. permitted static load (per castor)	165 lb (75 kg)
	Floor clearance	3" (85 mm)
[1]	Lock	2 with, 2 without
	Packs of	1 set(s)
	Color	black with gray running surface
	Model No.	6148.000

	Max. permitted static load (per castor)	265 lb (120 kg)
	Floor clearance	5" (125 mm)
[2]	Lock	2 with, 2 without
	Packs of	1 set(s)
	Color	black
	Model No.	7495.000



Bolt down kit

To anchor the enclosure at any position of the base frame. With slot for a range of vertical positions.

Material:

- Carbon steel

Surface finish:

- Primed

Note:

- Additional holes are required in the base for mounting
- Cannot be used with leveling feet or transport castors

Packs of	Model No.
4 pc(s).	9970.989



Transport kit

for TS IT

Floor clearance: approx. 40 mm

Load capacity:

- Max. permitted static load:
750 kg per enclosure

Supply includes:

- 1 set = 4 castors (2 steerable)
Assembly components

Packs of	Model No.
1 set(s)	7825.900

Note:

- Only for enclosures without base plates and base tray/base mount

Technical details:

Available on the Internet



Transport kit

The transport kit allows for easy transportation of the enclosure over even surfaces. Easy to mount.

Load capacity:

- Permissible dynamic load of 1020 kg per enclosure

Supply includes:

- 1 set = 4 castors (2 steerable)
Assembly components

Packs of	Model No.
1 set(s)	9968.751

Adapter sleeve**for Flex-Block**

To stack base/plinth corner pieces.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- 12 adapter sleeves
- 8 M12 screws
- 8 washers

Packs of	Model No.
12 pc(s).	8000.500

**Base/plinth adapter****for leveling feet**

Connection component for fastening M12 leveling feet to the TS base/plinth.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Packs of	Model No.
4 pc(s).	8800.220

**Accessories:**

- Leveling feet 4612.000, 7493.100, see page 435

**Base/plinth adapter****for twin castors**

Connection component for mounting twin castors on the TS base/plinth.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Packs of	Model No.
4 pc(s).	8800.290

**Also required:**

- Base/plinth trim panels, side, see page 428, wherever a twin castor is fitted



Base

Base



Width divider

Divides 1200 mm wide TS and SE enclosures into two halves.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 1 set =
 - 1 bracket for right/left, 2 compensating plates for the top, mounting accessories.

Packs of	Model No.
1 set(s)	8800.200



Also required:

- TS punched rail 18 x 38 mm, see page 525
- PS punched section without mounting flange 23 x 73 mm, see page 527 depending on the installation configuration



1st installation configuration:

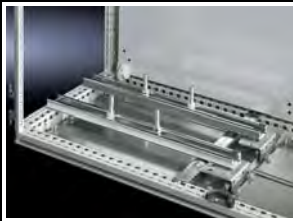
Two mounting plates side by side.

Two mounting plates (for 600 mm wide enclosures) in a 1200 mm wide enclosure allow independent positioning and easy handling.



Also required:

- 4 x TS punched rails 18 x 38 mm at the bottom, to suit the enclosure depth, see page 525
- 1 x PS punched section without mounting flange 23 x 73 mm at the top, to suit the enclosure depth, see page 527



2nd installation configuration:

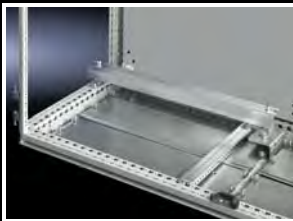
System support rails, fitted on the left.

While heavy installed equipment rests on the system support rails, the remaining floor space is free, e.g. for unhindered cable entry.



Also required:

- 2 x 4361.000 system support rails, see page 529
- 1 x TS punched rail 18 x 38 mm to suit the enclosure depth (included in the scope of supply of the standard enclosure)



3rd installation configuration:

Cable clamp rail, installed on the left.

With 1200 mm wide enclosures, the width divider allows cable entry and cable clamping to be arranged differently on the left and right of the enclosure.



Also required:

- 1 x 4191.000 cable clamp rail, see page 574
- 1 x TS punched rail 18 x 38 mm to suit the enclosure depth (included in the scope of supply of the standard enclosure)

Reinforcement bracket

for TS, SE

For use as an additional stabilizer to the clamping straps when populated enclosures are screw-fastened via the base tray to the base/plinth or pallet for transportation purposes.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	8800.830



Base mount

for TS IT

To accommodate base plate modules.

- Tool-free mounting or screw-fastening
- Easily retrofitted and can be combined with the stabilizer

Material:

- Carbon steel

Surface finish:

- Spray-finished

Color:

- RAL 7035

Supply includes:

- 2 mounting rails including assembly components

For enclosure depth inches (mm)	Packs of	Model No.
24 (600)	2 pc(s).	5501.300
32 (800)	2 pc(s).	5501.310
39 (1000)	2 pc(s).	5501.320
47 (1200)	2 pc(s).	5501.350



Clips

for base plates

As replacement and additional base plate fixture for TS, SE, CM, TP.

Material:

- Carbon steel

Surface finish:

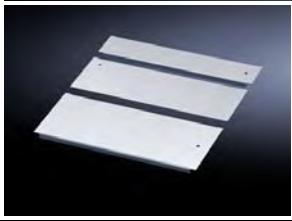
- Zinc-plated

Packs of	Model No.
50 pc(s).	8800.075



Base

Base



Base plate

for CM, TP

Equipotential bonding is provided via assembly components and grounding points.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

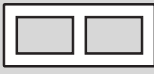
- Assembly components

Note:

- For greater stability and universal cable entry, the base opening is divided in the width for 1000, 1200 and 1600 mm wide enclosures, and is suitable for various configurations



For enclosure depth 16" (400 mm), complete module groups

	For enclosure/console width inches (mm)								
	One-piece base opening				Two-piece base opening				
									
For housing width	Packs of	Packs required	24 (600)	32 (800)	Packs of	Packs required	39 (1000)	47 (1200)	63 (1600)
Cable entry module groups			Model No.				Model No.		

Clamping profile, center									
Base plate, Depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Base plate, Depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080	2 set(s)	1	8802.100	8802.120	8802.160

Clamping profile, rear									
Base plate, Depth 4" (100 mm)	1 pc(s).	2	5001.214	5001.215	1 pc(s).	4	5001.216	5001.217	5001.234
Profile for cable entry, rear	1 set(s)	1	8802.065	8802.085	2 set(s)	1	8802.105	8802.125	8802.165

Clamping profile, center and rear									
Base plate, Depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Base plate, Depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080	2 set(s)	1	8802.100	8802.120	8802.160
Profile for cable entry, rear	1 set(s)	1	8802.065	8802.085	2 set(s)	1	8802.105	8802.125	8802.165

Grommets, 1 x									
Base plate, Depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
Cable entry plates for grommets	1 pc(s).	1	5001.226	5001.227	1 pc(s).	2	5001.228	5001.229	5001.237

Cable entry grommets and connector grommets, see page 562

Grommets, 2 x									
Base plate, Depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Cable entry plates for grommets	1 pc(s).	2	5001.226	5001.227	1 pc(s).	4	5001.228	5001.229	5001.237

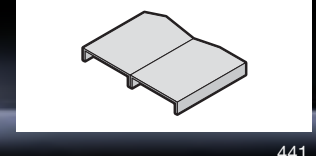
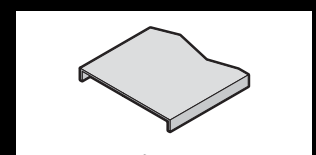
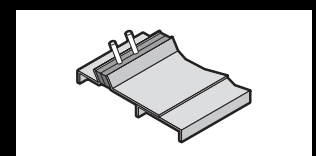
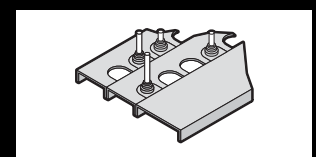
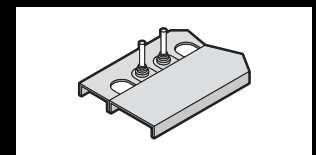
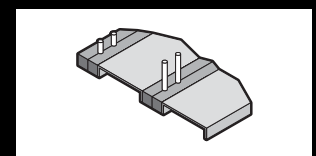
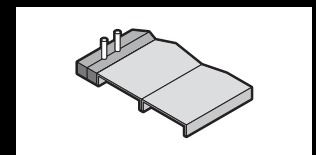
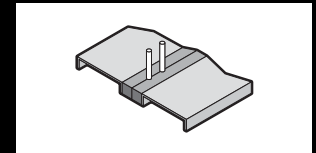
Cable entry grommets and connector grommets, see page 562

EMC									
EMC base plate	1 set(s)	1	8800.660	8800.680	1 set(s)	2	8800.600	8800.620	–
Base plate, Depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	–

Cable entry grommets and connector grommets, see page 562

For cable glands									
One-piece									
Base plate, Depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223	1 pc(s).	2	5001.224	5001.225	5001.236
Two-piece									
Base plate, Depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
Base plate, Depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234

Cable glands, see page 568



Base

Base

For enclosure depth 20" (500 mm), complete module groups

	For enclosure/console width inches (mm)								
	One-piece base opening				Two-piece base opening				
									
For housing width	Packs of	Packs required	24 (600)	32 (800)	Packs of	Packs required	39 (1000)	47 (1200)	63 (1600)
Cable entry module groups			Model No.				Model No.		

Clamping profile, center									
Base plate, Depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Base plate, Depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223	1 pc(s).	2	5001.224	5001.225	5001.236
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080	2 set(s)	1	8802.100	8802.120	8802.160

Clamping profile, rear									
Base plate, Depth 6" (150 mm)	1 pc(s).	2	5001.218	5001.219	1 pc(s).	4	5001.220	5001.221	5001.235
Profile for cable entry, rear	1 set(s)	1	8802.065	8802.085	2 set(s)	1	8802.105	8802.125	8802.165

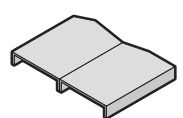
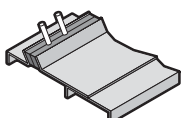
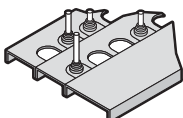
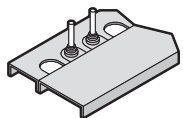
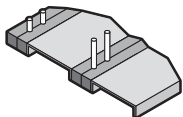
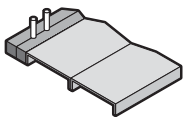
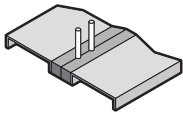
Clamping profile, center and rear									
Base plate, Depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Base plate, Depth 4" (100 mm)	1 pc(s).	2	5001.214	5001.215	1 pc(s).	4	5001.216	5001.217	5001.234
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080	2 set(s)	1	8802.100	8802.120	8802.160
Profile for cable entry, rear	1 set(s)	1	8802.065	8802.085	2 set(s)	1	8802.105	8802.125	8802.165

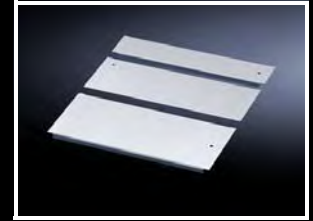
Grommets, 1 x									
Base plate, Depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223	1 pc(s).	2	5001.224	5001.225	5001.236
Cable entry plates for grommets	1 pc(s).	1	5001.226	5001.227	1 pc(s).	2	5001.228	5001.229	5001.237
Cable entry grommets and connector grommets, see page 562									

Grommets, 2 x									
Base plate, Depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
Cable entry plates for grommets	1 pc(s).	2	5001.226	5001.227	1 pc(s).	4	5001.228	5001.229	5001.237
Cable entry grommets and connector grommets, see page 562									

EMC									
EMC base plate	1 set(s)	1	8800.660	8800.680	1 set(s)	2	8800.600	8800.620	-
Base plate, Depth 4" (100 mm)	1 pc(s).	2	5001.214	5001.215	1 pc(s).	4	5001.216	5001.217	-
Cable entry grommets and connector grommets, see page 562									

For cable glands, two-piece									
Base plate, Depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234
Base plate, Depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223	1 pc(s).	2	5001.224	5001.225	5001.236
Cable glands, see page 568									





Base plate

for TS IT

Equipotential bonding is provided via assembly components and grounding points.

■ Base plate kit

To conceal the entire base opening

■ Base plate modules

Select module to suit the application

Material:

– Carbon steel

Surface finish:

– Zinc-plated

Supply includes:

– Assembly components



Accessories:

– Clips for base plates, see page 439

For enclosure depth 24" (600 mm)

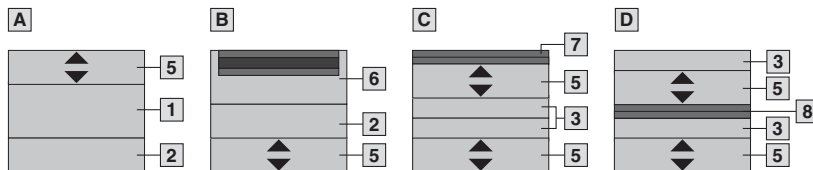
A Base plate kit	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)
			Model No.	
Base plate, solid, with sliding panel, multi-piece	1 set(s)	1	–	5502.510

Base plate modules	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)

B 1 module plate as required			Model No.	
Base plate, depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	Cable entry with brush strip	1 pc(s).	–	7825.381
	Vented		7825.360	7825.380
	Cable entry with brush strip, super-airtight		–	7825.387

C Cable entry rear or front			Model No.	
Base plate, depth 4" (100 mm)	1 pc(s).	2	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Self-adhesive foam cable clamp strip	118" (3 m)	1	2573.000	2573.000

D Cable entry center			Model No.	
Base plate, depth 4" (100 mm)	1 pc(s).	2	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080



- 1 Base plate, depth 10" (250 mm)
- 2 Base plate, depth 6" (150 mm)
- 3 Base plate, depth 4" (100 mm)
- 4 Base plate, depth 2" (50 mm)
- 5 Sliding plate, depth 6" (150 mm)
- 6 Module plate, depth 9.4" (237.5 mm)
- 7 Self-adhesive foam cable clamp strip
- 8 Profile for cable entry, center

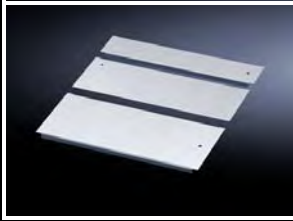


Also required:

– Base mount, see page 439

Base

Base



For enclosure depth 32" (800 mm)

A Base plate kit	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)
			Model No.	
Base plate, solid, with sliding panel, multi-piece	1 set(s)	1	–	5502.530

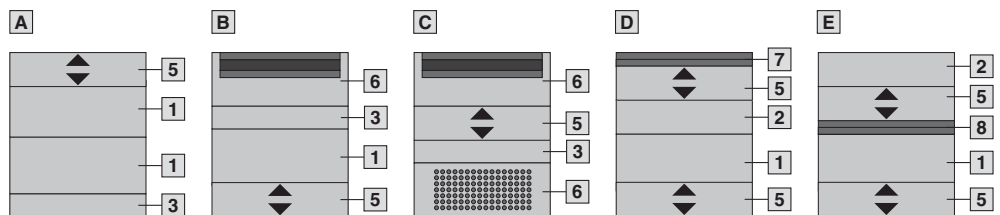
Base plate modules	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)

B 1 module plate as required			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223
Base plate, depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	1 pc(s).	1	–	7825.381
			7825.360	7825.380
			–	7825.387

C 2 module plates as required			Model No.	
Base plate, depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	1 pc(s).	2	–	7825.381
			7825.360	7825.380
			–	7825.387

D Cable entry rear or front			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223
Base plate, depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Self-adhesive foam cable clamp strip	118" (3 m)	1	2573.000	2573.000

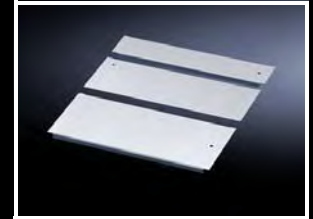
E Cable entry center			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223
Base plate, depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080



- 1 Base plate, depth 10" (250 mm)
- 2 Base plate, depth 6" (150 mm)
- 3 Base plate, depth 4" (100 mm)
- 4 Base plate, depth 2" (50 mm)
- 5 Sliding plate, depth 6" (150 mm)
- 6 Module plate, depth 9.4" (237.5 mm)
- 7 Self-adhesive foam cable clamp strip
- 8 Profile for cable entry, center

! Also required:

- Base mount, see page 439



For enclosure depth 39" (1000 mm)

A Base plate kit	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)
			Model No.	
Base plate, solid, with sliding panel, multi-piece	1 set(s)	1	5502.540	5502.550

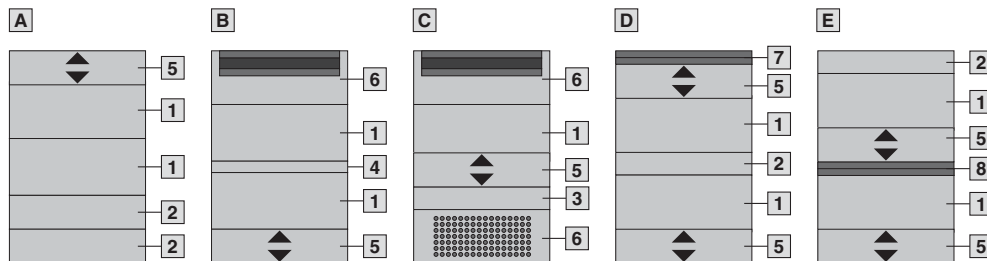
Base plate modules	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)

B 1 module plate as required			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	1 pc(s).	1	–	7825.381
			7825.360	7825.380
			–	7825.387

C 2 module plates as required			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223
Base plate, depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	1 pc(s).	2	–	7825.381
			7825.360	7825.380
			–	7825.387

D Cable entry rear or front			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Self-adhesive foam cable clamp strip	118" (3 m)	1	2573.000	2573.000

E Cable entry center			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080



- 1 Base plate, depth 10" (250 mm)
- 2 Base plate, depth 6" (150 mm)
- 3 Base plate, depth 4" (100 mm)
- 4 Base plate, depth 2" (50 mm)
- 5 Sliding plate, depth 6" (150 mm)
- 6 Module plate, depth 9.4" (237.5 mm)
- 7 Self-adhesive foam cable clamp strip
- 8 Profile for cable entry, center



Also required:

- Base mount, see page 439

Base

Base



For enclosure depth 47" (1200 mm)

A Base plate kit	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)
			Model No.	
Base plate, solid, with sliding panel, multi-piece	1 set(s)	1	5502.560	5502.570

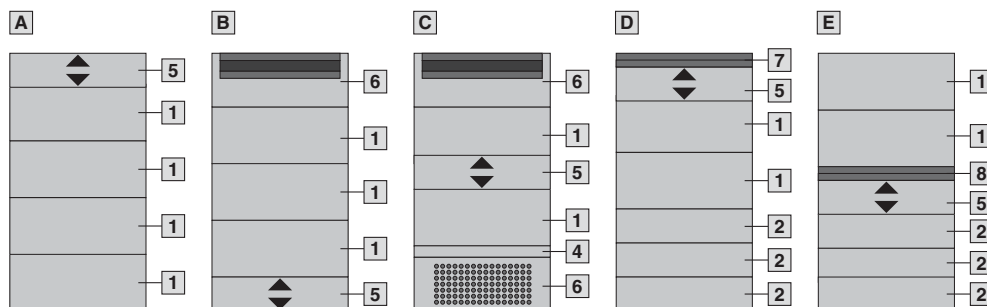
Base plate modules	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)

B 1 module plate as required			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	3	5001.222	5001.223
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	Cable entry with brush strip	1 pc(s).	–	7825.381
	Vented		7825.360	7825.380
	Cable entry with brush strip, super-airtight		–	7825.387

C 2 module plates as required			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	Cable entry with brush strip	1 pc(s).	–	7825.381
	Vented		7825.360	7825.380
	Cable entry with brush strip, super-airtight		–	7825.387

D Cable entry rear or front			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 6" (150 mm)	1 pc(s).	3	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Self-adhesive foam cable clamp strip	118" (3 m)	1	2573.000	2573.000

E Cable entry center			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 6" (150 mm)	1 pc(s).	3	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080



- 1 Base plate, depth 10" (250 mm)
- 2 Base plate, depth 6" (150 mm)
- 3 Base plate, depth 4" (100 mm)
- 4 Base plate, depth 2" (50 mm)
- 5 Sliding plate, depth 6" (150 mm)
- 6 Module plate, depth 9.4" (237.5 mm)
- 7 Self-adhesive foam cable clamp strip
- 8 Profile for cable entry, center

! Also required:

- Base mount, see page 439

Closure plate**for CM, TP**

To cover the entire base opening for CM or as a cover for the TP pedestal.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

- RAL 7035

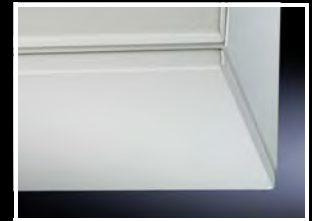
Protection category IP to IEC 60 529:

- IP 55

Supply includes:

- Assembly components

For enclosure		Model No.
Width inches (mm)	Depth inches (mm)	
24 (600)	16 (400)	5001.130
32 (800)	16 (400)	5001.140
39 (1000)	16 (400)	5001.150
47 (1200)	16 (400)	5001.160
63 (1600)	16 (400)	6730.030
32 (800)	20 (500)	6730.110
47 (1200)	20 (500)	6730.120
63 (1600)	20 (500)	6730.130

**Base plate module, vented****for TS, TS IT, SE**

Large perforated section for passive enclosure ventilation.

Base plate depth:

- 237.5 mm

Supply includes:

- Filter mat and hook and loop tape

For enclosure width inches (mm)	Model No.
24 (600)	7825.360
32 (800)	7825.380

**Also required:**

- Base mount for installation in TS IT, see page 439
- Base plates for installation in TS IT, see page 443

**Base plate module, one-piece, with brush strip****for TS, TS IT, SE**

For simple, sealed cable entry.

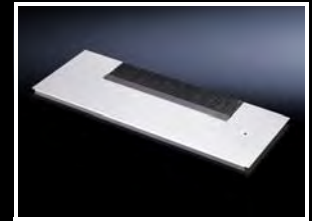
Base plate depth:

- 237.5 mm

For enclosure width inches (mm)	Model No.
32 (800)	7825.381

**Also required:**

- Base mount for installation in TS IT, see page 439
- Base plates for installation in TS IT, see page 443

**Base plate module, two-piece, with brush strip****for TS, TS IT, SE**

Special brush strips with alternate offset brushes for optimum protection of correct cable entry. The two-piece design even allows retrospective fitting of the base module with the cables already installed.

Base plate depth:

- 237.5 mm

Material:

- Module plate: Carbon steel
- Brush strip: Plastic, UL 94-V0

Surface finish:

- Module plate: zinc-plated

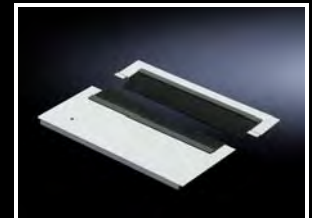
Supply includes:

- Assembly components

For enclosure width inches (mm)	Packs of	Model No.
32 (800)	1 pc(s).	7825.387

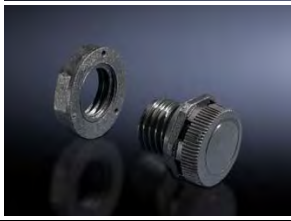
**Also required:**

- Base mount for installation in TS IT, see page 439
- Base plates for installation in TS IT, see page 443



Base

Base



Pressure relief plugs

Pressure differences can cause condensation to form in sealed housings, especially when the housing is exposed to changing climatic conditions (e.g. with outdoor siting). The integrated sealing membrane largely prevents these pressure differences and the build-up of condensate, as well as protecting against the penetration of moisture from outside. Installation is in vertical surfaces, to protect against dirt.

Packs of	Model No.
5 pc(s).	2459.500

Technical specifications:

- Air permeability up to 120 liters/hour with a pressure difference of 70 mbar
- Connection thread M12 x 1.5
- For fitting in wall thicknesses up to 4 mm

Material:

- Polyamide

Color:

- Similar to RAL 9005

Protection category IP to IEC 60 529:

- IP 66, 68

Protection category IP to DIN 40 050-9:

- IP 69K

Supply includes:

- Lock nut



Condensate discharge

For reliable condensate discharge from the inside and protection against splashed water from the outside (labyrinth effect).

Required hole diameter 16 mm.

(In AE carbon steel, the hole is already present in the base.)

Material:

- Polyamide

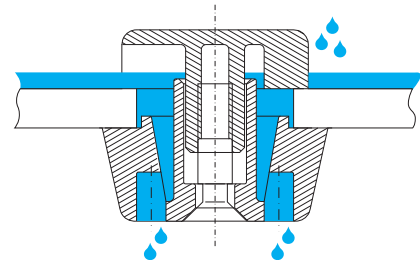
Color:

- Similar to RAL 7035

Protection category:

- Splash-proof at the bottom when installed per instructions

Packs of	Model No.
6 pc(s).	2459.000



Oiltight hole seals

To seal open holes, openings, cut-outs for switches, hoses or cables. Seals opening with minimum diameter 0.19" and can be used with material thickness of up to 0.31".

Material:

- Carbon steel: RAL 7035
- Stainless steel 1.4301 (AISI 304)

Protection category NEMA:

- Carbon steel: NEMA 12, 3R, 4
- Stainless steel: NEMA 12, 3R, 4X



Carbon steel

Description	Packs of	Model No.	Model No. US
Cut-out for oilproof switch 22.5 mm (IEC)	1 pc(s).	8018.234	OHSMPBC
0.50" hole for cable conduit	1 pc(s).	8018.236	OHS050C
0.75" hole for cable conduit	1 pc(s).	8018.238	OHS075C
Standard cut-out for oilproof switch 30.5 mm (NEMA)	1 pc(s).	8018.240	OHSSPBC
1.00" hole for cable conduit	1 pc(s).	8018.242	OHS100C
1.25" hole for cable conduit	1 pc(s).	8018.244	OHS125C
1.50" hole for cable conduit	1 pc(s).	8018.246	OHS150C
2.00" hole for cable conduit	1 pc(s).	8018.250	OHS200C
2.50" hole for cable conduit	1 pc(s).	8018.252	OHS250C
3.00" hole for cable conduit	1 pc(s).	8018.254	OHS300C
3.50" hole for cable conduit	1 pc(s).	8018.256	OHS350C
4.00" hole for cable conduit	1 pc(s).	8018.258	OHS400C

Stainless steel 1.4301 (AISI 304))

Description	Packs of	Model No.	Model No. US
0.50" hole for cable conduit	1 pc(s).	8018.237	OHS0506
0.75" hole for cable conduit	1 pc(s).	8018.239	OHS0756
1.00" hole for cable conduit	1 pc(s).	8018.243	OHS1006
1.25" hole for cable conduit	1 pc(s).	8018.245	OHS1256
1.50" hole for cable conduit	1 pc(s).	8018.247	OHS1506
2.00" hole for cable conduit	1 pc(s).	8018.251	OHS2006

Walls

Sidewalls



Sidewalls, screw-fastened, carbon steel

for TS, TS IT

- Automatic potential equalization and higher EMC protection thanks to enclosure panel holders with grounding insert
- Easy positioning with the location aid
- Grounding bolt with contact surface

Material:

- Carbon steel, 1.5 mm

Surface finish:

- Dipcoat-primed, powder-coated on the outside

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

- Assembly components

Note:

- Enclosure panel holders may be fitted either from the inside or outside of the enclosure
- Area available for population:
External dimension -100 mm



Accessories:

- Ground straps, see page 555
- Enclosure panel holders, internal, see page 451, with heavy installed components and high dynamic loads

For enclosures		Color		Packs of	Model No.
Height inches (mm)	Depth inches (mm)	RAL 7035	RAL 9005		
32 (800)	24 (600)	■	–	2 pc(s).	8173.235
39 (1000)	24 (600)	■	–	2 pc(s).	8174.235
47 (1200)	20 (500)	■	–	2 pc(s).	8115.235
47 (1200)	24 (600)	■	–	2 pc(s).	8170.235
47 (1200)	32 (800)	■	–	2 pc(s).	8175.235
47 (1200)	39 (1000)	■	–	2 pc(s).	8176.235
55 (1400)	20 (500)	■	–	2 pc(s).	8145.235
55 (1400)	24 (600)	■	–	2 pc(s).	8146.235
55 (1400)	32 (800)	■	–	2 pc(s).	8148.235
63 (1600)	20 (500)	■	–	2 pc(s).	8165.235
63 (1600)	24 (600)	■	–	2 pc(s).	8166.235
63 (1600)	32 (800)	■	–	2 pc(s).	8168.235
71 (1800)	16 (400)	■	–	2 pc(s).	8184.235
71 (1800)	20 (500)	■	–	2 pc(s).	8185.235
71 (1800)	24 (600)	■	–	2 pc(s).	8186.235
71 (1800)	32 (800)	■	–	2 pc(s).	8188.235
71 (1800)	39 (1000)	■	–	2 pc(s).	8180.235
79 (2000)	16 (400)	■	–	2 pc(s).	8104.235
79 (2000)	20 (500)	■	–	2 pc(s).	8105.235
79 (2000)	24 (600)	■	–	2 pc(s).	8106.235
79 (2000)	32 (800)	■	–	2 pc(s).	8108.235
79 (2000)	32 (800)	–	■	2 pc(s).	9969.916
79 (2000)	35 (900)	–	■	2 pc(s).	9968.597
79 (2000)	39 (1000)	■	–	2 pc(s).	8100.235
79 (2000)	39 (1000)	–	■	2 pc(s).	9968.596
79 (2000)	47 (1200)	■	–	2 pc(s).	9969.955
79 (2000)	47 (1200)	–	■	2 pc(s).	9969.956
87 (2200)	24 (600)	■	–	2 pc(s).	8126.235
87 (2200)	32 (800)	■	–	2 pc(s).	8128.235
87 (2200)	39 (1000)	–	■	2 pc(s).	9968.594

Sidewalls, screw-fastened, stainless steel

for TS

- Automatic potential equalization and higher EMC protection thanks to enclosure panel holders
- Easy positioning with the location aid
- Grounding bolt with contact surface

Material:

- Stainless steel 1.4301 (AISI 304), 1.5 mm

Surface finish:

- Brushed, grain 400

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

- Assembly components

For enclosures		Packs of	Model No.
Height inches (mm)	Depth inches (mm)		
71 (1800)	16 (400)	2 pc(s).	8700.840
71 (1800)	20 (500)	2 pc(s).	8700.850
79 (2000)	24 (600)	2 pc(s).	8700.060



Accessories:

- Enclosure panel holders, internal, see page 451, with heavy installed components and high dynamic loads



Baying frame, IP 66/NEMA 4, NEMA 4X

for TS

To bay enclosure systems.

- Automatic potential equalization and higher EMC protection thanks to enclosure panel holders
- Easy positioning with the location aid
- Foamed-in on both sides

Material:

- Stainless steel 1.4301 (AISI 304), 1.5 mm

Surface finish:

- Brushed, grain 400

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4
- NEMA 4X

Supply includes:

- Assembly components

For enclosures		Packs of	Model No.
Height inches (mm)	Depth inches (mm)		
79 (2000)	24 (600)	1 pc(s).	8700.010



Enclosure panel holders, internal

for TS

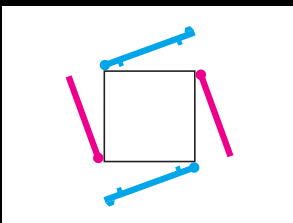
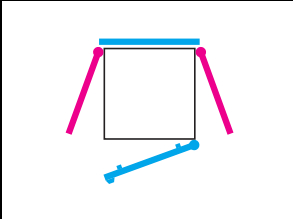
Additional fixing for side or rear walls with heavy installed components and high dynamic loads.

Packs of	Model No.
10 pc(s).	8800.071



Walls

Sidewalls



Hinges

for side panel, screw-fastened, carbon steel

The 180° opening angle allows unhindered access. Can be installed either from the inside or outside of the enclosure. A hinge can be used in place of three enclosure panel holders. The enclosure retains the same protection category when a hinge is used.

Material:

- Die-cast zinc

Supply includes:

- Assembly components

Version	Packs of	Model No.
RAL 7035	6 pc(s).	8800.110

Note:

- Side panel and door hinges (see page 492) may only be installed on the same enclosure section when using a 180° door hinge
- Important: Hinged and non-hinged red surfaces (side panels) must always be opposite one another, blue surfaces (doors/rear walls) must always be opposite one another
- Only one surface may be hinged on each vertical enclosure section

Split sidewalls

for TS IT

- Easy handling and tool-free assembly
- Quick-release fastener including 3524 E security lock
- Internal latch included (no key required)
- Lock with chassis, cable clamp rail may be top-mounted on the outer mounting level
- Suitable for IT climate control and rack extinguishing

Material:

- Carbon steel

Surface finish:

- Powder-coated

Color:

- RAL 9005

Supply includes:

- 1 top piece
- 1 bottom piece
- Ground conductor
- Assembly components

For enclosures		Packs of	Model No.
Height inches (mm)	Depth inches (mm)		
71 (1800)	32 (800)	1 pc(s).	5501.005
79 (2000)	24 (600)	1 pc(s).	5501.015
79 (2000)	32 (800)	1 pc(s).	5501.025
79 (2000)	39 (1000)	1 pc(s).	5501.035
79 (2000)	47 (1200)	1 pc(s).	5501.045
87 (2200)	32 (800)	1 pc(s).	5501.055
87 (2200)	39 (1000)	1 pc(s).	5501.065
87 (2200)	47 (1200)	1 pc(s).	5501.075

Paint

For touching up and repairing powder-coated and wet-painted surfaces, air-drying.

	RAL color	Model No.
12 ml touch-up applicator	7035	9095.006
1000 ml paint tin	7035	9094.006
150 ml aerosol	7035	9093.006

Partition walls

Partition wall

with cable management for TS, TS IT

For side partitioning of bayed TS enclosures.
Can be fitted without tools or additional hardware.
With 112 mm holes for cable routing.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

- Black

Supply includes:

- Grommets for cable routing

Height inches (mm)	Depth inches (mm)	Model No.
79 (2000)	47 (1200)	9971.044
87 (2200)	47 (1200)	9971.048

Note:

- Use baying connector 8800.490
- Not suitable for use in conjunction with a baying seal
- Can be fitted and removed without moving the enclosure



Partition wall, solid

for TS, TS IT

For side partitioning of bayed TS enclosures.
Can be fitted without tools or additional hardware.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

- Black

Height inches (mm)	Depth inches (mm)	Model No.
79 (2000)	39 (1000)	9978.378
79 (2000)	41 (1050)	9978.379
79 (2000)	47 (1200)	9978.380
87 (2200)	41 (1050)	9978.383
87 (2200)	47 (1200)	9978.384

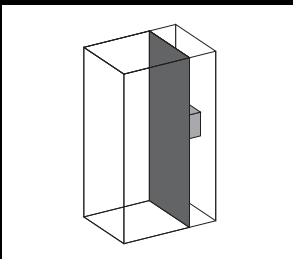
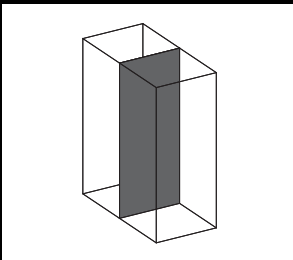
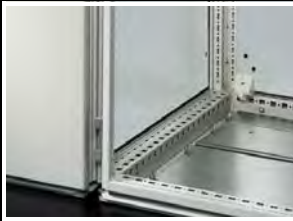
Note:

- Use baying connector 8800.490
- Not suitable for use in conjunction with a baying seal
- Can be fitted and removed without moving the enclosure



Walls

Partition walls



Partition wall

for TS

To shield individual enclosure cells. The symmetry of the frame system means the partition wall can also be used at the rear. All-round, double edging for stability and to accommodate the seal.

Notches in the corners and half-way up the sides permit the use of angular baying brackets and baying brackets, even with a divider panel fitted. Mounted on the outer mounting level. The inner level remains free for further expansion.

Material:

- Carbon steel, 1.5 mm

Surface finish:

- Zinc-plated

Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Assembly components

Note:

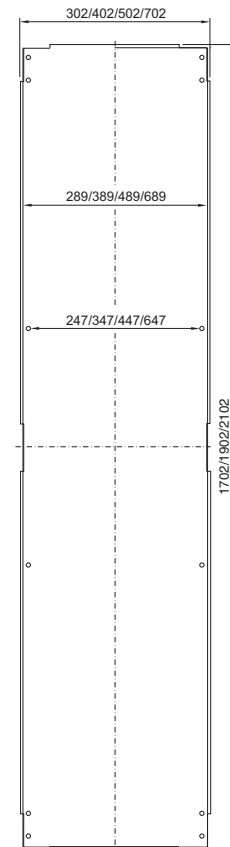
- The divider panel may also be fitted at the rear to allow, e.g. frequency converters for heat dissipation to be installed in a divider panel with the cooling units facing outwards and protected/concealed with a cover (see page 457)



Accessories:

- Cover with door, see page 457
- Baying attachment, vertical 8800.470 for enclosures with divider panel fitted, see page 464

For enclosures		Model No.
Height inches (mm)	Depth inches (mm)	
71 (1800)	16 (400)	8609.840
71 (1800)	20 (500)	8609.850
71 (1800)	24 (600)	8609.860
79 (2000)	16 (400)	8609.040
79 (2000)	20 (500)	8609.050
79 (2000)	24 (600)	8609.060
79 (2000)	32 (800)	8609.080
87 (2200)	24 (600)	8609.260



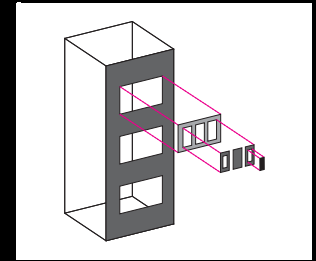
The partition wall and module plate system

More options:

The divider panel cut-outs are individually equipped with module plates for 16-pole or 24-pole connectors, with module plates for cable entry and with solid module plates.

Faster assembly:

Usually only some of the total number of connector cut-outs are used. Thanks to the new divider panel technique, the cut-outs do not need to be covered individually. The solid module plate is used instead. The benefit: Fewer plates, fewer screws, less assembly work.



Partition wall

for TS module plates

With cut-outs for the installation of module plates for connectors or for cable entry, and also for the entry of busbar systems and other installed equipment. All-round, double edging for stability and to accommodate the seal. The symmetry of the enclosure frame means divider panels of the appropriate dimensions can also be fitted at the rear. Mounted on the outer mounting level. In this way the inner level remains free for further enclosure expansion.

Material:

- Carbon steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components and M5 x 12 mm multi-tooth screws for mounting the module plates

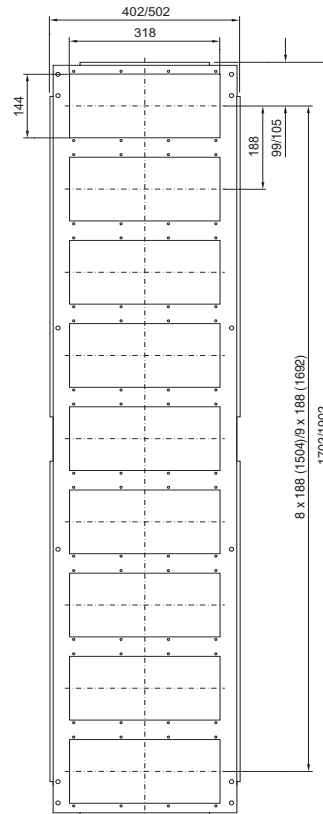
Note:

- Notches in the corners and half-way up the sides permit the use of angular baying brackets and baying brackets, even with a divider panel fitted

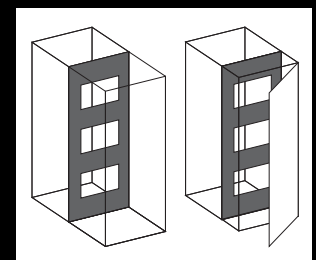


Accessories:

- Module plates, see page 456
- Cover with door, see page 457
- Baying attachment 8800.470 for enclosures with divider panel fitted, see page 464



For enclosures		Number of cut-outs	Model No.
Height inches (mm)	Depth inches (mm)		
71 (1800)	20 (500)	9	8609.100
71 (1800)	24 (600)	9	8609.110
79 (2000)	20 (500)	10	8609.120
79 (2000)	24 (600)	10	8609.130



Walls

Partition walls

Module plates

Material:

- Carbon steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

- Seal

Version	Cut-outs	Packs of	Model No.
Solid	–	1 pc(s).	8609.160
For 16-pole connectors	4	1 pc(s).	8609.150
For 24-pole connectors	4	1 pc(s).	8609.140
For cable entry	1	1 pc(s).	8609.170
With cable grommet	1	1 pc(s).	8609.390

Solid

For blanking unused cut-outs. Easily machined for individual cut-outs.



For 16/24-pole connectors

With cut-outs to accommodate connectors. In addition to mounting on divider panels, module plates may also be attached to the 25 mm hole pattern of the enclosure and to the rails of the TS/PS system.



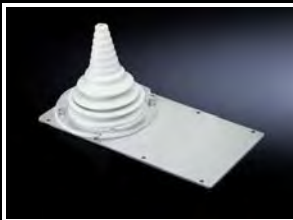
For cable entry

To route pre-assembled cables. Sealed, secure routing is achieved via adjustable angle brackets with inserted foam cable clamp strip. Fixed bracket, punched, for cable clamping.



With cable grommet

For 10 to 65 mm cable diameters. The flexible grommet adapts to the cable's bending radius.



Accessories:

- Adapter, cover plate, see page 456
- Connector gland for connector cut-outs, see page 569
- Connector gland sealing frame and sealing module, see page 570



Accessories:

- Cable ties for quick mounting 2597.000, see page 576

Adapter

for connector cut-outs

To use connectors with varying numbers of poles.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Seal and assembly components

For reduction	Packs of	Model No.
from 24 to 16 poles	5 pc(s).	2479.000
from 24 to 10 poles	5 pc(s).	2480.000
from 24 to 6 poles	5 pc(s).	2481.000
from 16 to 10 poles	5 pc(s).	2401.000
from 16 to 6 poles	5 pc(s).	2402.000



Partition walls

Cover plate

for connector cut-outs

For unused cut-outs.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Seal and assembly components

For	Packs of	Model No.
24-pole cut-outs	20 pc(s).	2477.000
16-pole cut-outs	20 pc(s).	2478.000



Cover with door

for TS

- To protect and conceal connectors or other installed equipment
- Cable entry optionally from above or below

Material:

- Cover: Carbon steel, 1.5 mm
- Door: Carbon steel, 2.0 mm

Color:

- RAL 7035

Supply includes:

- Cover
- Door with locking rod and double-bit lock insert
- 1 cover plate for top or bottom

For enclosures		Model No.
Height inches (mm)	Depth inches (mm)	
79 (2000)	20 (500)	8609.020
79 (2000)	24(600)	8609.030



Accessories:

- Lock inserts, type F, see page 488
- Comfort handle, see page 482
- 180° hinge, see page 492



Interconnect kit



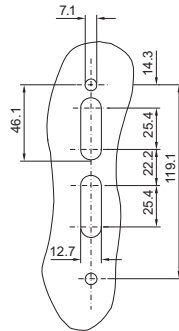
Interconnect kit

To securely lock enclosures and enclosure suites in combination with circuit breakers up to 200 A.

- Allen Bradley 1494 F-M1/P1/S1 and 140 U-K-FCX04
- Square D 9422 A1
- ITE Siemens Max-Flex series/FHOH (only available in the USA)
- General Electric TDA Type 1 and 2
- Eaton Cutler Hammer C361/C371
- Allen Bradley 140 U

Please order 4911.000 (see page 459) and the appropriate interconnecting rods for bayed enclosures to complete the assembly kit.

Cut-out for main switch

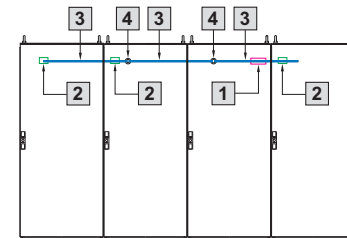


Main door lock	Model No.
For TS	8611.310

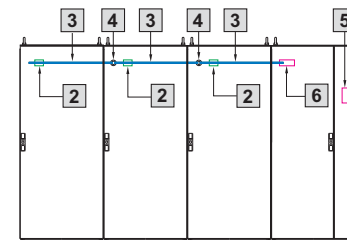
Note:

- The operating mechanism is included in the scope of supply 8611.310 (4912.000 see page 459)
 - Included in the scope of supply of the FMD main enclosure
- 1 Operating mechanism, installation in enclosure with main switch
 - 2 Adjacent door lock, installation in an adjacent enclosure
 - 3 Interconnecting rod
 - 4 Connection component (included in the interconnecting rod scope of supply)
 - 5 FMD main door lock
 - 6 Operating mechanism, installation in main enclosure (included in the scope of supply for the FMD main door lock item 5)

without lock kit



with lock kit



Interconnect kit

TS isolator door cover (USA version)

Incl. main door lock to securely lock enclosures and enclosure suites, meets US requirements, only in combination with actuator lever for master switch:

- Allen Bradley 1494 F-M1/P1/S1 and 140 U-K-FCX04
- Square D 9422 A1
- Siemens actuator for Max-Flex drives for SENTRON series molded-case circuit-breakers (ED, FD, LD, JD; not for Siemens 3VL circuit breakers) US model no.: FHOH
- General Electric TDA type 1 and 2
- Moeller NZM-XSHGVR 12-NA.

Advantages:

- When used in combination with
 - Operating mechanism
 - Adjacent door lock
 - Interconnecting rods
 fulfils the requirements of UL 508 A
- Compact design with 125 mm width, may optionally be fitted on the left or right of the enclosure. With this cover, all single-door standard TS 8 enclosures may be configured as isolator door enclosures. The complete installation surface of the enclosure is retained.
- In conjunction with the integratable TS mounting plate infill, see page 507, the mounting surface of the main enclosure can be enlarged by around 14%
- Cover may only be mounted on a single-door enclosure with tubular door frame

Material:

- Carbon steel

Surface finish:

- Powder-coated

Color:

- RAL 7035

Protection category to IEC 60 529:

- IP 55

Protection category NEMA:

NEMA 12

Supply includes:

- Main door lock, cover plate and assembly components

Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.
71 (1800)	4 (100)	16 (400)	8950.840
71 (1800)	4 (100)	20 (500)	8950.850
79 (2000)	4 (100)	20 (500)	8950.050
79 (2000)	4 (100)	24 (600)	8950.060



Also required:

- Operating mechanism, 4912.000, for enclosure with isolator door cover and additionally in every fourth adjacent enclosure, see page 459
- Adjacent door lock, 4911.000, 4911.100, for each adjacent enclosure, see page 459
- Interconnecting rods, for each adjacent enclosure in relevant enclosure width, see page 459
- TS side panel, screw-fastened, see page 450

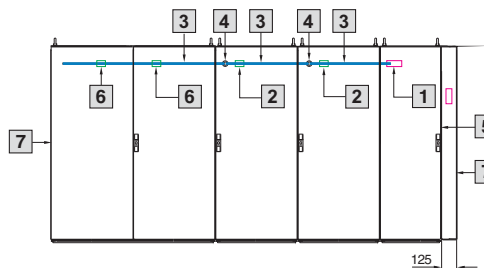


Accessories:

- Mounting plate infill, see page 507

Disconnecting switch lock (USA version)

- 1 Operating mechanism
- 2 Adjacent door lock (single door)
- 3 Interconnecting rod
- 4 Connection component
- 5 Main door lock
- 6 Adjacent door lock (double door)
- 7 TS side panel, screw-fastened



Technical details:

Available on the Internet



Door latch for bayed enclosure suites

To extend **conventional master switch** door locks to TS bayed enclosures. Main door must be opened before the other doors can be opened.

1 Operating mechanism

Fitted in the enclosure with main switch and additionally in every fourth adjacent enclosure

2 Adjacent door lock

Fitted in adjacent enclosure

3 Interconnecting rods

To extend locking from the main enclosure to the adjacent enclosures of a bayed suite. An interconnecting rod corresponding to the width of the enclosure is required for each adjacent enclosure.

	Packs of	Model No.
Operating mechanism	1 pc(s).	4912.000

	Packs of	Model No.
Adjacent door lock for Single-door enclosures	1 pc(s).	4911.000
Double-door enclosures	1 pc(s).	4911.100

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	10 pc(s).	4916.000
32 (800)	10 pc(s).	4918.000
47 (1200)	10 pc(s).	4920.000

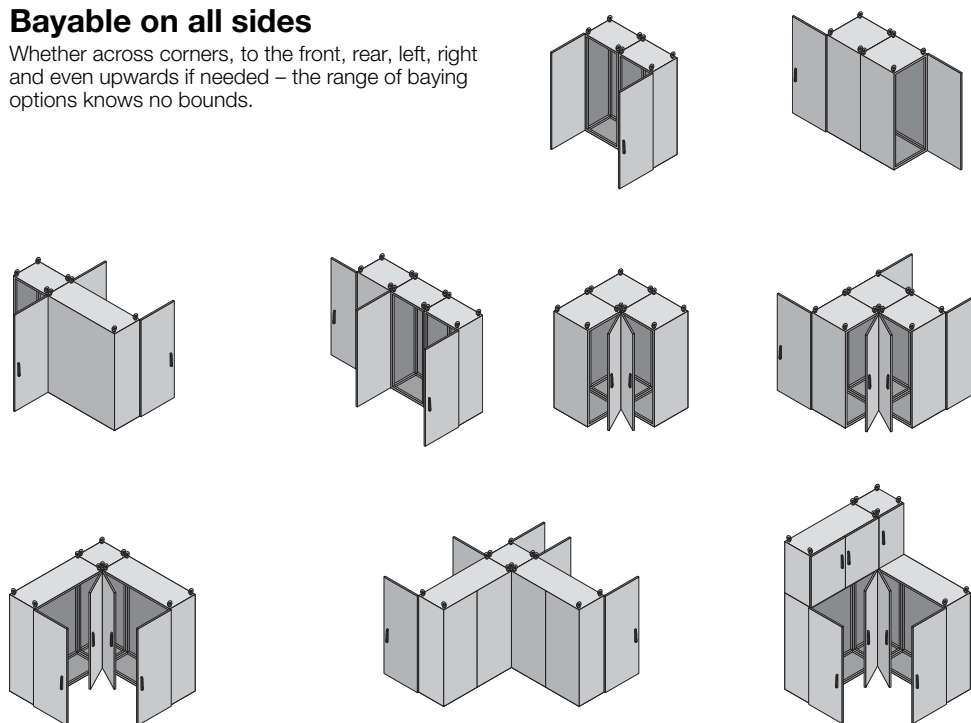


Baying Systems

Baying

Bayable on all sides

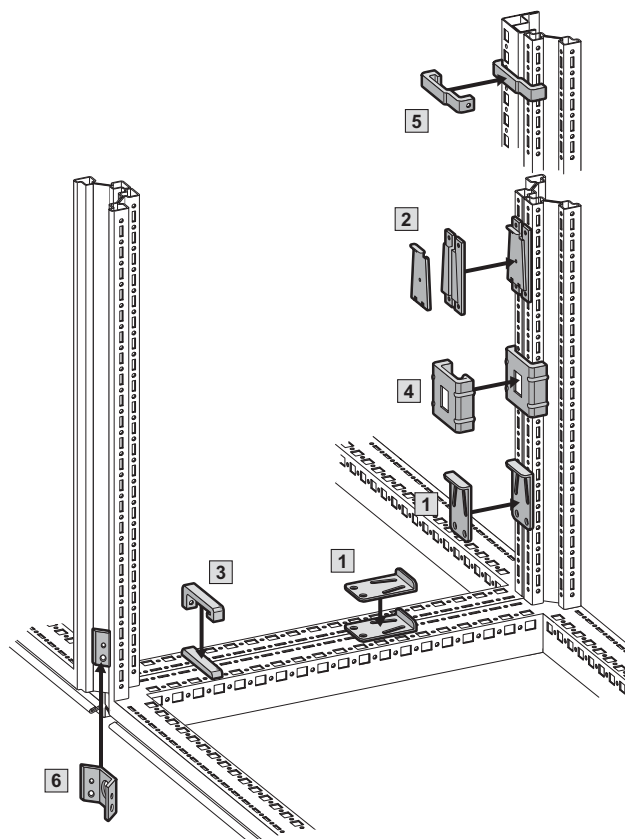
Whether across corners, to the front, rear, left, right and even upwards if needed – the range of baying options knows no bounds.



For baying at the installation site or temporary assembly in the workshop

- 1 Quick-fit baying connector, one-piece
- 2 Quick-fit baying connector, three-piece
- 3 Baying clamp, horizontal
- 4 Baying clamp, vertical, for TS/TS
- 5 Baying clamp, vertical, for TS/PS
- 6 Baying connector, external

Notes on transporting bayed enclosures, see page 462.



1 Quick-Fit Baying Connector, One-Piece

for TS/TS

Simply attach the screws, insert the quick-release baying connector, tap in with a hammer and secure.

Material:

- Carbon steel

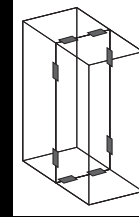
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
6 pc(s).	8800.500



2 Quick-Fit Baying Connector, Three-Piece

for TS/TS

Simply slot in place, connect using the lock plate and secure.

Material:

- Carbon steel

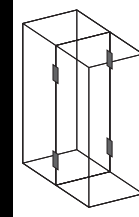
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
6 pc(s).	8800.590



3 Baying Clamp, Horizontal

for TS/TS, TS/PS

To mount on horizontal enclosure profiles.

Material:

- Cast steel

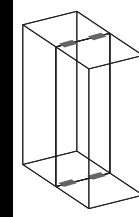
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	8800.400



4 Baying Clamp, Vertical

for TS/TS

To mount on vertical enclosure profiles.

Material:

- Carbon steel

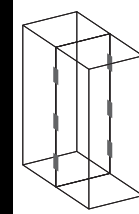
Surface finish:

- Zinc-plated

Supply includes:

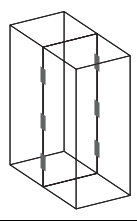
- Assembly components

Packs of	Model No.
6 pc(s).	8800.410



Baying Systems

Baying



5 Baying Clamp, Vertical

for TS/PS

To mount on vertical enclosure profiles.

Material:

- Cast steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
6 pc(s).	8800.420



6 Baying Connector, External

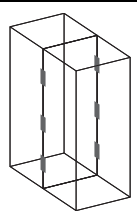
for TS/TS

To mount on vertical enclosure profiles. Locate on the exterior and screw-fasten either from the inside or the outside.

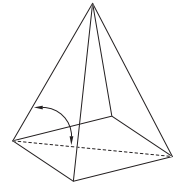
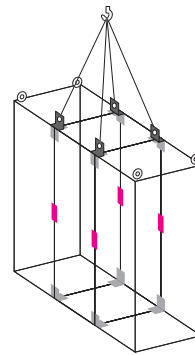
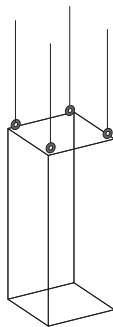
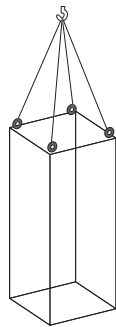
Supply includes:

- Assembly components

Material/surface	Packs of	Model No.
Carbon steel, zinc-plated	6 pc(s).	8800.490
Stainless steel 1.4301 (AISI 304)	6 pc(s).	8700.000



Notes on Transporting Bayed Enclosures



Individual enclosures are safely transported using the transportation eyebolts in the scope of supply. The following permitted total loads apply as long as loading is symmetrical:

- at 45° rope pull angle, 4,800 N
- at 60° rope pull angle, 6,400 N
- at 90° rope pull angle, 13,600 N

Note:

- The transportation eyebolts must be lined up with the rope pull direction

In the enclosure combination shown here with angular baying brackets, baying connectors and combination brackets, the loading capacity at a rope pull angle of 60° is:

- 7,000 N for the left enclosure
- 14,000 N for the middle enclosure
- 7,000 N for the right enclosure

The rope pull angle between the roof plate and the rope heavily influences the permitted total load.

The rope pull angle must never be less than 45° and angles of less than 60° should be avoided wherever possible.

For Transporting Bayed Enclosures

- 7 Angular baying brackets for TS/TS
- 8 Baying brackets for TS/TS and TS/PS

Note:

- The external baying connector (see page 462) can also be used as reinforcement
- When transporting large and heavy enclosure combinations, we recommend also using combination brackets 4540.000, see page 464

! Also required:

- For protection category IP 55:
One quick-fit baying connector at each half enclosure height, see page 461

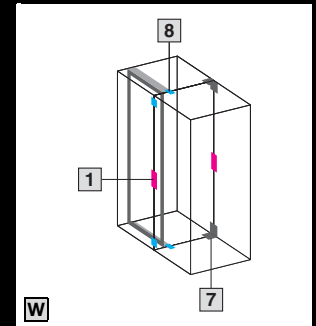
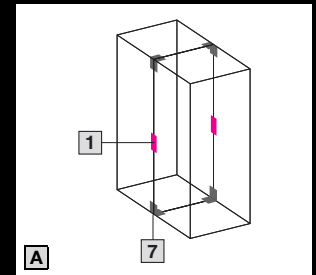
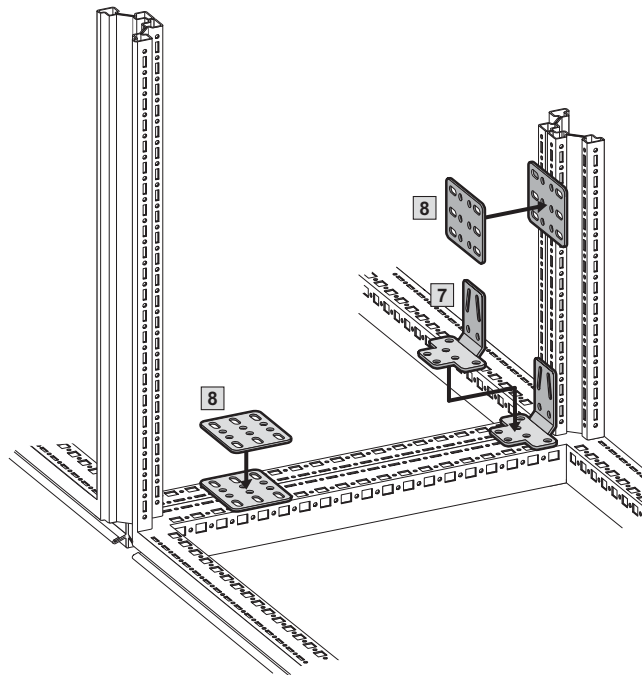
Notes on transporting bayed enclosures, see page 462

Example A

- 1 2 quick-fit baying connectors
8800.500
(see page 461)
- 7 4 angular baying brackets
8800.430
(see page 463)

Example B

- 1 2 quick-fit baying connectors
8800.500
(see page 461)
- 7 2 angular baying brackets
8800.430
(see page 463)
- 8 4 baying brackets
4582.500
(see page 464)
If the baying brackets cannot be fitted in the frontmost installation position due to attached equipment, e.g. large pivoting frame



7 Angular Baying Bracket for TS/TS

To provide a sturdy joint when transporting bayed enclosure suites.

Optional screw-fastening

- horizontal and vertical with 8 sheet metal screws
- horizontal with 2 screws and speed nuts M8, vertical with 4 sheet metal screws

Material:

- Carbon steel

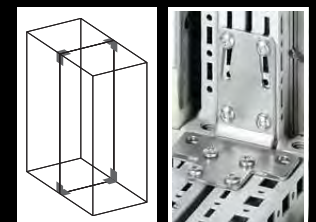
Surface finish:

- Zinc-plated

Supply includes:

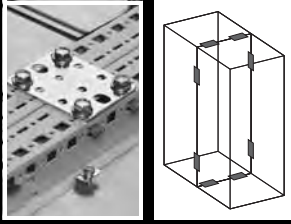
- Assembly components

Packs of	Model No.
4 pc(s).	8800.430



Baying Systems

Baying



8 Baying Brackets

for TS/TS and TS/PS

For additional stabilization or if an angular baying bracket cannot be installed due to other equipment, such as:

- Mounting plate bracket
- Pivoting frame
- Busbar supports

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	4582.500



Accessories:

- For mounting on the vertical TS enclosure profile: Snap-on nut M8, 8800.808, see page 533



Angular Baying Bracket

The alternative to baying bracket 4582.500 and for individual interior fittings.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	4582.000



Also required:

- For mounting on the horizontal TS enclosure profile: Captive nuts/threaded blocks M8, see page 538
- For mounting on the vertical TS enclosure profile: Snap-on nut M8, 8800.808, see page 533



Combination Bracket

For optimum distribution of tensile forces during transportation of bayed enclosures by crane.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

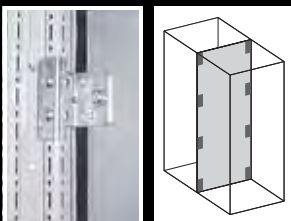
Packs of	Model No.
4 pc(s).	4540.000



Accessories:

- Top baying cover, see page 466

Notes on transporting bayed enclosures, see page 462



Baying Attachment, Vertical

for TS/TS with partition wall

Only suitable for mounting in conjunction with the divider panel angle brackets (included with the supply).

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
8 pc(s).	8800.470

Note:

- May also be used for side or rear wall attachment/fastening of enclosures. In such cases, additional holes must be drilled in the side or rear panel.

Baying Attachment, Vertical for TS/TS

For baying two populated enclosures on the vertical enclosure profile.

Locate in the vertical TS punchings, secure and join the two brackets using the hex screws supplied. Using the fastening bolts, the enclosure is pulled into a defined end position, with a height or side offset of up to ± 2 mm.

Material:

- Carbon steel

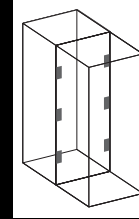
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
6 pc(s).	8800.670



Baying Cover, Vertical

To align the gap between the side panels when baying back-to-back. For enclosure height 2200 mm, or cut to length individually for lower heights.

Material:

- Cover section: Plastic

Color:

- RAL 7035

Supply includes:

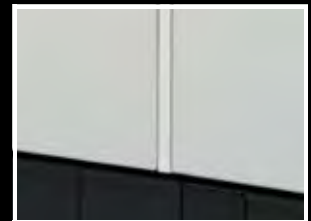
- Assembly components

Packs of	Model No.
2 pc(s).	8800.870



Also required:

- Baying connector, external, 8800.490, see page 462



Baying Connector, Horizontal for back-to-back mounting

Two-piece for in site assembly of enclosures with mounting plate in the rearmost installation position.

Material:

- Carbon steel

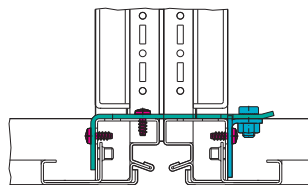
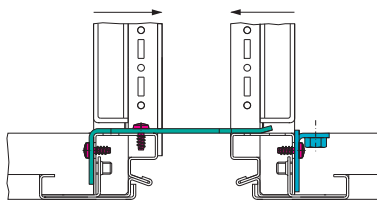
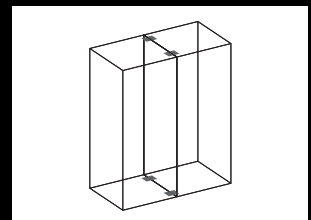
Surface finish:

- Zinc-plated

Supply includes:

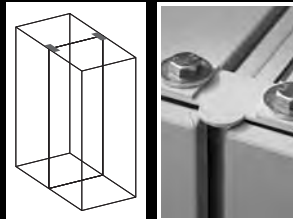
- Assembly components

Packs of	Model No.
4 pc(s).	8800.170



Baying Systems

Baying



Baying Cover, Top

A clip-in cover with two end caps is also available to cover the seal between two enclosures. This helps to prevent dirt and moisture from collecting on the baying seal.

Supply includes:

- Assembly components
- 2 end caps

Note:

- Can also be fitted along the width of enclosures bayed back-to-back.
- Can be used in conjunction with dust guard trim, see page 500

For enclosure depth inches (mm)	Packs of	Plastic RAL 7035	Stainless steel 1.4301 (AISI 304)	Model No.
16 (400)	1 pc(s).	■	–	8800.845
20 (500)	1 pc(s).	■	–	8800.855
24 (600)	1 pc(s).	■	–	8800.865
32 (800)	1 pc(s).	■	–	8800.885
47 (1200)	1 pc(s).	■	–	8800.825
16 (400)	1 pc(s).	–	■	8700.140
20 (500)	1 pc(s).	–	■	8700.150
24 (600)	1 pc(s).	–	■	8700.160

Baying Connector, External

for TS IT/TS IT with side panels

For retrospective baying of enclosures with screw-fastened or lockable side panels.

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	7824.540

Baying Kit

for KL, AE

Special screws and nuts

- for quick and easy assembly without thread-tapping.
- keep the compression of the seal to a defined level to ensure a durable seal between the enclosures.

Seal, self-adhesive

- made up of bayable sealing components and corner pieces for individual adaptation to different housing sizes

One pack is sufficient for a baying point up to H x D = 800 x 350 mm

Supply includes:

- Sealing elements
- Assembly components

Packs of	Model No.
1 set(s)	1199.100

Doors/Locks

Door models

Tubular door frame

for TS, TS IT, SE

Suitable for carbon steel doors that can accommodate tubular door frames.

Material:

- Pipe section: Carbon steel
- Corner connectors: Plastic

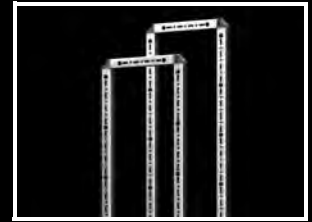
Surface finish:

- Pipe section: Zinc-plated

Supply includes:

- Assembly components

For doors		Packs of	Model No.
Height inches (mm)	Width inches (mm)		
79 (2000)	12 (300)	1 set(s)	5501.200
79 (2000)	16 (400)	1 set(s)	5501.210



Glazed door

for TS, TS IT

Alternative to a carbon steel door or rear wall.

Material:

- Frame: Extruded aluminum section
- Corner pieces: Die-cast zinc
- Viewing window: Single-pane safety glass, 3 mm

Surface finish:

- Powder-coated

Color:

- Frame and corner pieces: RAL 7035
- Viewing window (printed mask on the inside): RAL 9005

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

- Glazed door frame with safety glass
- Locking rod closure with double-bit lock insert
- 180° hinges (4 pcs)
- Visible area: H -160 mm, W -140 mm

For enclosures		Model No.
Height inches (mm)	Width inches (mm)	
71 (1800)	24 (600)	8610.685
71 (1800)	32 (800)	8610.885
79 (2000)	24 (600)	8610.605
79 (2000)	32 (800)	8610.805
87 (2200)	24 (600)	8610.625
87 (2200)	32 (800)	8610.825



Also required:

- When mounting instead of the rear wall:
lock components for frame 8800.040,
see page 468



Handle adapter

The handle adapter is fitted to the beveled door profile to provide a suitable surface for the installation of a comfort handle.

Material:

- Plastic

Supply includes:

- 1 adapter plate
- 1 bolt to extend the screw-on dome
- 2 assembly screws

For TS glazed door

Color	Model No.
RAL 7035	8611.080

For PC, lower door

Color	Model No.
RAL 7035	8611.300



Doors/Locks

Door models



Lock components

for TS, TS IT, SE

To retrofit a glazed door or carbon steel door in place of a rear wall.

Material:

- Die-cast zinc

Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	8800.040



Lockable and adjacent door

for TS, TS IT, SE

Where, for example, two 400 mm doors are to be used instead of one 800 mm wide door to provide for escape routes.

Material:

- Carbon steel

Surface finish:

- Dipcoat-primed, powder-coated on the outside

Supply includes:

- 2 doors incl. tubular door frame, hinges and lock components

For enclosures		Color RAL	Model No.
Height inches (mm)	Width inches (mm)		
79 (2000)	32 (800)	7035	8801.450



Accessories:

- Lock system, see page 482

Expansion accessories for TS modular front design

Modular front design

for TS 8 baying system

(see page 64)

Suitable for 400, 600 and 800 mm wide TS enclosures instead of a door or rear wall.

The partial doors with and without viewing window incl. cross members can be combined in any way you choose. A front trim panel is required at the top and bottom.

The example configuration on the right shows you what you need for your individual front design:

- 1 Front trim panel, top
- 2 Front trim panel, bottom
- 3 Partial door with viewing window
- 4 Partial door



Partial doors

for TS

The door catch may be optionally located on the right or left. The partial door can be fastened to the TS enclosure without drilling. Monitor frame 2305.000 can be installed in partial doors without a viewing window (height 600 – 1000 mm). Standard double-bit lock insert may be exchanged for a type F lock insert, and for a comfort handle in systems over 600 mm high.

Material:

- Partial door: Carbon steel, 2 mm
- Viewing window: 3 mm single pane safety glass

Surface finish:

- Textured paint

Color:

- RAL 7035

Supply includes:

- Cross member, hinges and lock components
- Assembly components

! Also required:

- Front trim panels, top, see page 470 or Trim panel, hinged at the top, see page 471
- Front trim panels, bottom, see page 471

+ Accessories:

- Monitor frame 2305.000, see page 476
- Lock inserts, type F, see page 488
- Comfort handle, see page 482
- Perforated mounting strips, see page 470

Technical details:

Available on the Internet

Protection category to IEC 60 529:

- IP 54, for complete enclosure

For enclosure width 16" (400 mm)

Height inches (mm)	With viewing window	Packs of	Model No.
6 (150)	–	1 pc(s).	9672.141
8 (200)	–	1 pc(s).	9672.142
12 (300)	–	1 pc(s).	9672.143
16 (400)	–	1 pc(s).	9672.144
24 (600)	–	1 pc(s).	9672.146
32 (800)	–	1 pc(s).	9672.148
39 (1000)	–	1 pc(s).	9672.140
63 (1600)	–	1 pc(s).	9672.156
71 (1800)	–	1 pc(s).	9672.158
79 (2000)	–	1 pc(s).	9672.150

For enclosure width 24" (600 mm)

Height inches (mm)	With viewing window	Packs of	Model No.
6 (150)	–	1 pc(s).	9672.161
8 (200)	–	1 pc(s).	9672.162
12 (300)	–	1 pc(s).	9672.163
16 (400)	–	1 pc(s).	9672.164
24 (600)	–	1 pc(s).	9672.166
24 (600)	■	1 pc(s).	9672.167
32 (800)	–	1 pc(s).	9672.168
32 (800)	■	1 pc(s).	9672.169
39 (1000)	–	1 pc(s).	9672.160
63 (1600)	–	1 pc(s).	9672.176
71 (1800)	–	1 pc(s).	9672.178
79 (2000)	–	1 pc(s).	9672.170

For enclosure width 32" (800 mm)

Height inches (mm)	With viewing window	Packs of	Model No.
6 (150)	–	1 pc(s).	9672.181
8 (200)	–	1 pc(s).	9672.182
12 (300)	–	1 pc(s).	9672.183
16 (400)	–	1 pc(s).	9672.184
24 (600)	–	1 pc(s).	9672.186
24 (600)	■	1 pc(s).	9672.187
32 (800)	–	1 pc(s).	9672.188
39 (1000)	–	1 pc(s).	9672.180
63 (1600)	–	1 pc(s).	9672.196
71 (1800)	–	1 pc(s).	9672.198
79 (2000)	–	1 pc(s).	9672.190



Doors/Locks

Expansion accessories for TS modular front design



Perforated mounting strips

for partial doors

For retro-fitting. The perforated mounting strips have a 25 mm hole pattern and can be used for individual mountings on the rear of the door, e.g. cable ducts, conduit holders etc.

Hole diameter of the perforated mounting strip:
4.5 mm

Material:

– Carbon steel, 1 mm

Surface finish:

– Zinc-plated

Supply includes:

– Assembly components

For enclosure width inches (mm)	Length inches (mm)	For partial door height inches (mm)	Packs of	Model No.
16 (400)	12 (298)	6 – 32 (150 – 800)	10 pc(s).	9671.204
24 (600)	20 (498)	6 – 32 (150 – 800)	10 pc(s).	9671.206
32 (800)	27 (698)	6 – 32 (150 – 800)	10 pc(s).	9671.208



Front trim panels, top

for TS

To blank off the top of the modular front when partial doors are used. The front trim panels can be removed from the outside by undoing the screws. The cross member required for mounting is included with the supply for the relevant partial door.

Material:

– Carbon steel, 2 mm

Surface finish:

– Textured paint

Color:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 54

Supply includes:

– Assembly components

Height inches (mm)	For enclosure width inches (mm)	Packs of	Model No.
4 (100)	16 (400)	1 pc(s).	9672.314
12 (300)	16 (400)	1 pc(s).	9672.324
4 (100)	24 (600)	1 pc(s).	9672.316
12 (300)	24 (600)	1 pc(s).	9672.326
4 (100)	32 (800)	1 pc(s).	9672.318
12 (300)	32 (800)	1 pc(s).	9672.328

Expansion accessories for TS modular front design

Front trim panels, bottom

for TS

To blank off the bottom of the modular front when partial doors are used. The front trim panels can be removed from the outside by undoing the screws.

Material:

- Carbon steel, 2 mm

Surface finish:

- Textured paint

Color:

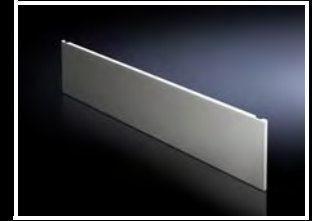
- RAL 7035

Supply includes:

- Front trim panel incl. cross member
- Assembly components

Protection category IP 54

Height inches (mm)	For enclosure width inches (mm)	Packs of	Model No.
4 (100)	16 (400)	1 pc(s).	9672.334
12 (300)	16 (400)	1 pc(s).	9672.344
4 (100)	24 (600)	1 pc(s).	9672.336
12 (300)	24 (600)	1 pc(s).	9672.346
4 (100)	32 (800)	1 pc(s).	9672.338
12 (300)	32 (800)	1 pc(s).	9672.348



Trim panel, hinged at the top

for TS

To install control and display components, in combination with

- Modular front design
- TS protective bar

Material:

- Carbon steel, 2 mm

Surface finish:

- Textured paint

Color:

- RAL 7035

Supply includes:

- Hinges, cam locks with double-bit insert and assembly components

Height inches (mm)	Width inches (mm)	Packs of	Model No.
12 (300)	24 (600)	1 pc(s).	8801.230
12 (300)	32 (800)	1 pc(s).	8801.240
12 (300)	47 (1200)	1 pc(s).	8801.250

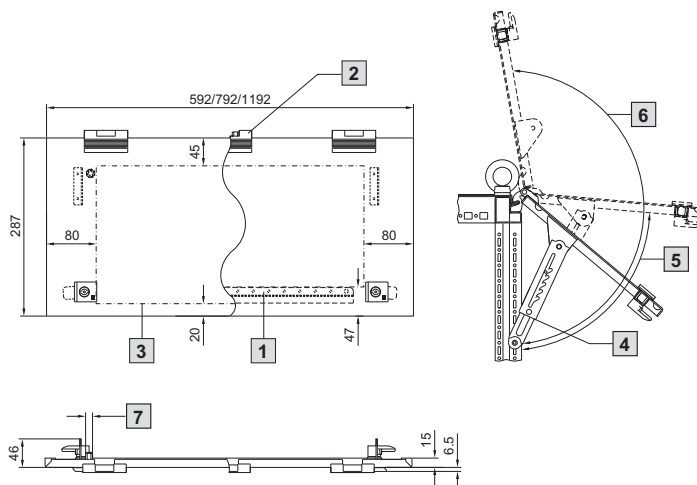
Note:

- Not in conjunction with top-mounted module for TS (see page 501)



Accessories:

- Stay for trim panel, hinged at the top, see page 472
- Lock inserts, type A, see page 488



- 1** Only for width 800 mm and 1200 mm
- 2** Only for width 1200 mm
- 3** Usable internal surface
- 4** Optional: Stay 8801.260

- 5** Max. opening angle with stay approx. 85°
- 6** Max. opening angle without stay approx. 190°
- 7** M8 grounding studs

Doors/Locks

Expansion accessories for TS modular front design



Drawer

for TS

For mouse and keyboard with a maximum width of 500/700 mm.

High level of protection, even with the flap open. Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, plastic handles, type B, and T handle, type B.

Material:

- Carbon steel

Color:

- RAL 7035

Height inches (mm)	Width inches (mm)	Model No.
8 (200)	24 (600)	8801.715
8 (200)	32 (800)	8801.915

Supply includes:

- Flap and assembly components
- Stay



Accessories:

- Lock inserts 27 mm, type A, see page 488
- Plastic handles, type B, see page 487
- T handles, type B, see page 487



Stay

for trim panel, hinged at the top

5 hole pattern positions up to a maximum opening angle of approx. 85°.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Packs of	Model No.
2 pc(s).	8801.260

Viewing windows/operating panels

System window

To cover display and operating instruments or cut-outs, and provide protection from dirt and moisture as well as unauthorized access.

Made up of the following two components:

1. Base frame:

- Easily screw-fastened to the door thanks to modified dimensions (tubular door frame may be used as a drilling template)
- Readily height-adjustable
- Stabilizes the door cut-out
- Conceals the cut edge
- The rain canopy
 - prevents dirt from getting in the seal
 - stops the glass being lifted out
 - prevents the ingress of dirt and moisture when opening the window
- Frame profile height 30 mm or 60 mm

2. Viewing window:

- Made of single pane safety glass:
 - extremely resistant to solvents and scratches
 - anti-static
 - reduced risk of injury if broken
- Cam lock with double-bit insert, may be exchanged for lock inserts, type A, and semi-cylinders in the Ergoform-S lock system (not with 2735.500 and .560)
- Hinge with 180° opening angle, easy to fit

Material:

- Extruded aluminum profile with die-cast zinc corner pieces and single-pane safety glass

Surface finish:

- Base frame: powder-coated, RAL 7035
- Hinge and lock profile: anodized, natural

Protection category to IEC 60 529:

- IP 54

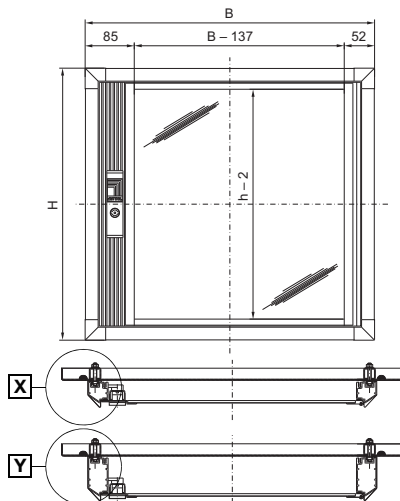
30 section

Suitable for TS, SE with width inches (mm)	Window dimensions, external inches (mm)		Model No.
	H	W	
24 (600)	11 (270)	20 (500)	2735.500
	15 (370)		2735.510
	19 (470)		2735.520
	22 (570)		2735.530
	26 (670)		2735.540
32 (800)	11 (270)	28 (700)	2735.560
	15 (370)		2735.570
	19 (470)		2735.580
	22 (570)		2735.590
	26 (670)		2735.250

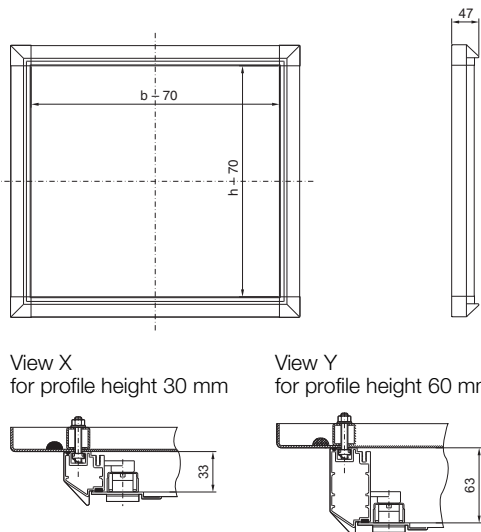
60 section

Suitable for TS, SE with width inches (mm)	Window dimensions, external inches (mm)		Model No.
	H	W	
24 (600)	15 (370)	20 (500)	2736.510
	19 (470)		2736.520
	22 (570)		2736.530
	26 (670)		2736.540
32 (800)	26 (670)	28 (700)	2736.500

Standard double-bit lock insert may be exchanged for lock inserts 27 mm, type A, see page 488 and/or for the Ergoform-S lock system, except H = 11" (270 mm), see page 486

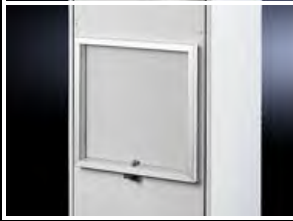


Viewing area (B -137) offset by 16.5 mm towards the hinge side



Doors/Locks

Viewing windows/operating panels



Viewing window

Mounted on

- AE instead of door
- Surfaces

Max. installation depth: (depth -4 mm)

Visible area:

(height -60 mm) x (width -60 mm)

Material:

- Frame: Aluminum, natural anodized
- Glass panel: Acrylic

Protection category to IEC 60 529:

- IP 54

Supply includes:

- Plastic handle with lock insert no. 3524 E

Depth = 1.3" (34 mm)

Can be used as a door for	Height inches (mm)	Width inches (mm)	Model No.
1050.500, 1350.500 1007.600	20 (497)	20 (497)	2733.000
–	8 (197)	24 (597)	2734.000
1039.500, 1339.500 1009.600, 7641.000	15 (377)	24 (597)	2730.000
1010.500, 1054.500 1060.500, 1360.500 7643.000	24 (597)	24 (597)	2731.000
1012.500, 1076.500 1376.500, 7645.000	30 (757)	24 (597)	2732.000

Depth = 2.4" (60 mm)

Can be used as a door for	Height inches (mm)	Width inches (mm)	Model No.
1050.500, 1350.500 1007.600	20 (497)	20 (497)	2763.000
1039.500, 1339.500 1009.600, 7641.000	15 (377)	24 (597)	2760.000
1010.500, 1054.500 1060.500, 1360.500 7643.000	24 (597)	24 (597)	2761.000
1012.500, 1076.500 1376.500, 7645.000	30 (757)	24 (597)	2762.000

Packs of	Model No.
2 pc(s).	2772.000



Fold-out FT stay

A gas pressurized spring holds the viewing window securely open (top or side).

When the viewing window is closed, the gas pressurized spring disappears into the frame profile.



Clear acrylic cover

With security lock, lock no. 3524 E.

Material:

- Frame: Extruded aluminum profile with die-cast corner pieces
- Glass panel: Smoked acrylic

Protection category to IEC 60 529:

- IP 54

Clear acrylic covers, 19" (482.6 mm)

U	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.
3	6 (158)	13 (320)	2 (47.5)	2780.000
3	6 (158)	21 (534)	2 (47.5)	2781.000
6	11 (291.5)	21 (534)	2 (47.5)	2782.000
9	17 (425)	21 (534)	2 (47.5)	2796.000

Max. installation depth: 43 mm

Visible area:

(height -20.5 mm) x (width -40 mm)

Metric acrylic covers

Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.
8 (200)	16 (400)	2 (47.5)	2784.000
16 (400)	16 (400)	2 (47.5)	2785.000
8 (200)	20 (500)	2 (47.5)	2786.000
16 (400)	20 (500)	2 (47.5)	2787.000
8 (200)	24 (600)	2 (47.5)	2788.000
16 (400)	24 (600)	2 (47.5)	2789.000

Max. installation depth: 43 mm

Visible area:

(height -20.5 mm) x (width -40 mm)

Viewing windows/operating panels

Viewing window

Stainless steel

Equipped as standard with internal 130° hinges and all-round seal.

The double-bit lock insert may be exchanged for 27 mm lock inserts, type A, and Ergoform-S handle 2452.000.

Material:

- Stainless steel 1.4301 (AISI 304)
- Single-pane safety glass

Protection category to IEC 60 529:

- IP 54

Supply includes:

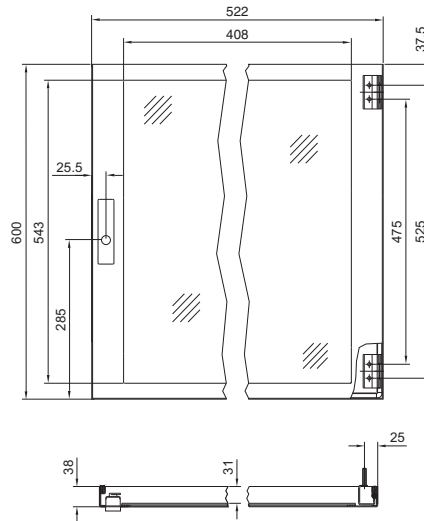
- Assembly components

Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.
24 (600)	21 (522)	2 (38)	2793.560



Accessories:

- Lock inserts 27 mm, type A, see page 488
- Ergoform-S handle 2452.000, see page 486



Window kit

Can be installed in most Rittal enclosures of suitable dimensions. The required hardware is included in the window kit. Oil-tight seals ensure a good all-round seal.

Material:

- Carbon steel: 2.0 mm
- Stainless steel 1.4301 (AISI 304): 2.0 mm

Surface finish:

- Carbon steel: Dipcoat-primed, powder-coated on the outside, textured paint
- Stainless steel: Brushed

Color:

- Carbon steel: RAL 7035

Protection category NEMA:

- Carbon steel: NEMA 12, 3R, 4
- Stainless steel: NEMA 12, 3R, 4X

Note:

- When determining the dimensions for the window, allow clearance for seals, retainers, door reinforcement, wiring plan pocket, door handles, locking rod and other parts to be fastened to the door or cover.



Window height inches (mm)	Window width inches (mm)	Frame height inches (mm)	Frame width inches (mm)	Model No.	Model No. US	Model No.	Model No. US
				Carbon steel		Stainless steel 1.4301 (AISI 304)	
5 (127)	3 (76)	8 (191)	6 (140)	8018.444	WK0503C	8018.445	WK05034
9 (229)	6 (140)	11 (292)	8 (203)	8018.447	WK0905C	8018.448	WK09054
13 (330)	8 (203)	16 (394)	11 (267)	8018.453	WK1308C	8018.454	WK13084
17 (432)	11 (279)	19 (495)	14 (343)	8018.459	WK1711C	8018.460	WK17114
23 (584)	15 (381)	26 (648)	18 (445)	8018.462	WK2315C	8018.463	WK23154

Doors/Locks

Viewing windows/operating panels



Monitor frame

for door width 600 and 800 mm

To cover a door cut-out, for all standard monitors up to 19" (482.6 mm).

Protection category to IEC 60 529:

– IP 54

Supply includes:

– Safety glass panel

Dimensions	Height inches (mm)	Width inches (mm)	Model No.
External dimensions	17 (430)	19 (470)	2305.000
Viewing area	13 (325)	15 (375)	
Cut-out required	15 (375)	16 (415)	



Labeling strips

To create individual field identifiers on the door, incl. transparent film and fixings.

For text labels:

Height: 29 mm

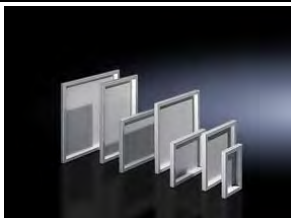
Width: Enclosure width -150 mm

Thickness: 0.75 mm

Color:

– RAL 7033

For enclosure width inches (mm)	Model No.
24 (600)	2403.000
32 (800)	2404.000



Operating panel

Mounted on

- AE instead of door
- Surfaces

Frame structure with internal corner connectors, 3 mm aluminum plate secured from the inside and sealed against the frame.

Material:

– Aluminum, natural anodized

Protection category to IEC 60 529:

– IP 54

Supply includes:

- Aluminum frame
- Display panel
- Hinges
- Brackets

Can be used as a door for AE	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.
1001.600 1002.500 1002.600 1002.600 1032.500 1035.500	12 (297)	8 (197)	1 (34)	2740.000¹⁾
1004.600 1011.600 1030.500 1031.500	12 (297)	15 (377)	1 (34)	2741.000
1006.500 1006.600 1380.500	15 (377)	15 (377)	1 (34)	2742.000
1008.600 1038.500 1338.500	24 (597)	15 (377)	1 (34)	2743.000
1007.600 1013.600 1050.500 1350.500	20 (497)	20 (497)	1 (34)	2745.000
1009.600 1039.500 1339.500	15 (377)	24 (597)	1 (34)	2744.000
1010.500 1010.600 1060.500 1360.500	24 (597)	24 (597)	1 (34)	2746.000

¹⁾ With AE, only for use on the rear wall

Area available for population:
(height -70 mm) x (width -70 mm)

Dimensions of aluminum plate:
(height -54 mm) x (width -54 mm)



Accessories:

– Cam lock 2749.000, see page 477



Viewing windows/operating panels

Cam lock

Can be retrofitted to the operating area or housing wall of an operating panel.

Standard double-bit lock insert may be exchanged for type C lock inserts type C plastic handles.

Packs of	Model No.
1 pc(s).	2749.000



Accessories:

- Lock inserts, type C, see page 488
- Plastic handle, type C, see page 487



Allocation of Lock Systems

Compact Enclosures, Carbon Steel

		Housing series							
		EB	AE, AE wall-mounted housing		CM	KS		EL, 3-part	
Condition		-	with cam	with 3-point lock	-	with cam	with 3-point lock	3 – 15 U	18 – 21 U
	from page	33	42	44	52	54	55	98	98

Handle systems for housings

Comfort handle									
For lock inserts	482	-	-	-	-	-	-	-	■
For padlock and lock inserts	482	-	-	-	-	-	-	-	■
With lock insert, lock E1	482	-	-	-	-	-	-	-	■
For semi-cylinder	482	-	-	-	-	-	-	-	■
Prepared for ASSA lock system	482	-	-	-	-	-	-	-	■
Mini comfort handle (from AE housing height 15" (380 mm), from AE housing width 12" (300 mm))									
For lock inserts	485	-	■	-	-	-	-	■	-
For semi-cylinder	485	-	■	-	-	-	-	■	-
Ergoform-S handle									
Standard	486	-	-	■	-	-	-	-	-
Special with lock insert, lock E1	486	-	-	■	-	-	-	-	-
Special, prepared for ASSA lock system	486	-	-	■	-	-	-	-	-
Standard for KS plastic enclosures	486	-	-	-	-	-	■	-	-
Folding lever handle									
For lock inserts	483	-	-	-	■	-	-	-	-
For padlock and lock inserts	483	-	-	-	■	-	-	-	-
With lock insert, lock E1	483	-	-	-	■	-	-	-	-
Semi-cylinder lock									
For AE	489	-	■	-	-	-	-	-	-
Plastic handles									
Version B	487	■	■	-	-	-	-	-	-
Version E	487	-	-	-	-	■	-	-	-
T handles									
Version B	487	■	■	-	-	-	-	-	-
Lock inserts for housing									
Lock inserts									
Version A	488	■	■	■	-	-	-	-	-
Version E	488	-	-	-	-	■	■	-	-
Version F	488	-	-	-	■	-	-	■	■
Lock cylinder inserts									
Version B	489	■	■	-	-	-	-	-	-

Lock inserts for handle systems			
Semi-cylinder	Lock inserts		
Safety and push-button lock inserts	Version A	Version F	Safety and push-button lock inserts
483	488	488	483

-	-	■	■
-	-	■	■
-	-	-	-
■	-	-	-
-	-	-	-
-	-	■	■
■	-	-	-
-	-	-	-
■	■	-	-
-	-	-	-
■	-	■	-
■	-	■	-
-	-	-	-
-	-	-	-

Allocation of Lock Systems

Large Enclosures, Carbon Steel

Condition	Housing series		
	TS, SE	PC enclosure	
		Door	For keyboard drawer or fold-out tray
	from page	64	115

Handle systems for housings

Comfort handle				
For lock inserts	482	■	■	-
For padlock and lock inserts	482	■	■	-
For semi-cylinder	482	■	■	-
With lock insert, lock E1	482	■	■	-
Prepared for ASSA lock system	482	■	■	-
With code	484	■	■ ¹⁾	-
Ergoform-S handle				
Standard	486	-	-	-
Special with lock insert, lock E1	486	-	-	-
Special, prepared for ASSA lock system	486	-	-	-

Lock inserts for housing

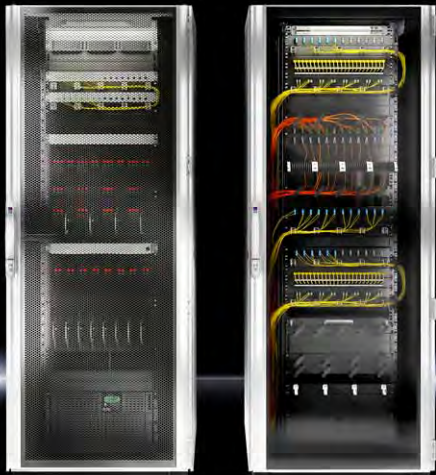
Lock inserts				
Version A	488	-	-	■
Version F	488	■	■	-

¹⁾ Can only be used with rear door

Lock inserts for handle systems			
Semi-cylinder	Lock inserts		
Safety and push-button lock inserts	Version A	Version F	Safety and push-button lock inserts
483	488	488	483

-	-	■	■
-	-	■	■
■	-	-	-
-	-	-	-
-	-	-	-
■	-	-	-
■	■	-	-
-	-	-	-
-	-	-	-

New



TS IT Network/ Server Enclosures

See page 87

Allocation of Lock Systems

Console Systems, Carbon Steel

		Housing series			
		TP TopConsole		TP one-piece console	
Condition		Desk unit and top piece	Pedestal	Console cover	Console door
	from page	109	109	113	113
Handle systems for housings					
Comfort handle					
For lock inserts	482	—	—	—	—
For padlock and lock inserts	482	—	—	—	—
For semi-cylinder	482	—	—	—	—
With lock insert, lock E1	482	—	—	—	—
Prepared for ASSA lock system	482	—	—	—	—
With code	484	—	—	—	—
Ergoform-S handle					
Standard	486	—	■	—	■
Special with lock insert, lock E1	486	—	■	—	■
Special, prepared for ASSA lock system	486	—	■	—	■
T handles					
Version B	487	■	—	■	—
Lock inserts for housing					
Lock inserts					
Version A	488	■	■	■	■
Version D	488	—	—	—	—
Version F	488	—	—	—	—
Lock cylinder inserts					
Version B	489	—	—	—	—

Lock inserts for handle systems			
Semi-cylinder	Lock inserts		
Safety and push-button lock inserts	Version A	Version F	Safety and push-button lock inserts
483	488	488	483

—	—	■	■
—	—	■	■
■	—	—	—
—	—	—	—
—	—	—	—
■	—	—	—
■	■	—	—
—	—	—	—
—	—	—	—

New



Command Panel with Handle Strips

See page 119

Allocation of Lock Systems

Housings and Enclosures, Stainless Steel

		Housing series				
		AE		One-piece console		SE
Condition		with cam	with 3-point lock	Console cover	Console door	
	Page	175/176	177	181	181	179/180
Handle systems for housings						
Comfort handle						
For lock inserts	482	–	–	–	–	■
For padlock and lock inserts	482	–	–	–	–	■
For semi-cylinder	482	–	–	–	–	■
With lock insert, lock E1	482	–	–	–	–	■
Prepared for ASSA lock system	482	–	–	–	–	■
Ergoform-S handle						
Standard	486	–	■	–	■	–
Special with lock insert, lock E1	486	–	■	–	■	–
Special, prepared for ASSA lock system	486	–	■	–	■	–
Plastic handles						
Version C	487	■ ¹⁾	–	■	–	–
T handles						
Version C	487	■ ¹⁾	–	■	–	–
Semi-cylinder lock						
for AE	489	■ ²⁾	–	–	–	–
Lock inserts for housing						
Lock inserts						
Version A	488	–	■	–	–	–
Version C	488	■	–	■	–	–
Version F	488	–	–	–	–	■
Lock cylinder inserts						
Version C	489	■	–	■	–	–

¹⁾ Not with 1018.600²⁾ Not with housings made from stainless steel 1.4401 (AISI 316L) and use of cam lock 2304.000

Lock inserts for handle systems			
Semi-cylinder	Lock inserts		
Safety and push-button lock inserts	Version A	Version F	Safety and push-button lock inserts
483	488	488	483

–	–	■	■
–	–	■	■
■	–	–	–
–	–	–	–
–	–	–	–
■	■	–	–
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–

Accessories



Stainless Steel

See page 167

Lock systems



Comfort handle

for TS, TS IT, SE, PC

The folding lever handle leaves the surface of the door completely free allowing extra space for installed equipment.

Material:

- Die-cast zinc

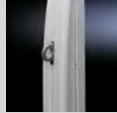
Surface finish:

- Powder-coated



Also required:

- Handle adapter, see page 467, for installation on glazed door TS, lower door PC

					
	For lock inserts	For padlock and lock inserts	With lock insert, lock E1 ¹⁾	For semi-cylinder	Prepared for ASSA lock system
	Model No.				
RAL 7035	8611.020	8611.290	8611.045	8611.070	8611.280
RAL 9005	8611.350	–	–	8611.360	–
Matt nickel-plated	8611.330	–	–	8611.340	–
Lock inserts, type F					
7 mm square	8611.100	8611.100	–	–	–
8 mm square	8611.110	8611.110	–	–	–
7 mm triangular	8611.120	8611.120	–	–	–
8 mm triangular	8611.130	8611.130	–	–	–
Screwdriver	8611.140	8611.140	–	–	–
Daimler insert	8611.150	8611.150	–	–	–
3 mm double-bit	8611.160	8611.160	–	–	–
Fiat	8611.170	8611.170	–	–	–
6.5 mm triangular (CNOMO)	8611.220	8611.220	–	–	–
Safety and push-button lock inserts					
Lock insert, lock no. 3524 E ²⁾	8611.180	8611.180	–	2467.000	–
Push-button insert	8611.190	8611.190	–	2468.000	–
Push-button and lock insert ²⁾	8611.200 ³⁾	8611.200 ³⁾	–	2469.000 ⁴⁾	–

¹⁾ Only for use with VW, Audi, SEAT, SkodaAuto, supplied without key

²⁾ With 2 keys

³⁾ Lock no. 12321; other locks not suitable

⁴⁾ Lock no. 2123; other locks not suitable

Lock inserts

Fits in comfort handle, mini-comfort handle,
Ergoform-S standard, folding lever handle

Installation in		
	Safety and push-button lock inserts	
	Comfort handle ⁴⁾ , Mini-comfort handle ⁴⁾	Comfort handle ⁵⁾ , Mini-comfort handle ⁵⁾ , Ergoform-S standard, Folding lever handle for CM
	Model No.	
Lock insert lock no. 3524 E ¹⁾	8611.180	2467.000
Push-button insert	8611.190	2468.000
Push-button and lock insert ¹⁾	8611.200²⁾	2469.000³⁾

¹⁾ With 2 keys

²⁾ Lock no. 12321; other locks not suitable

³⁾ Lock no. 2123; other locks not suitable

⁴⁾ For lock inserts

⁵⁾ For semi-cylinder



Folding lever handle

for CM

The folding lever handle leaves the surface of the door completely free allowing extra space for installed equipment.

Dimensions:

- Length: 242 mm (when fitted)
- Width: 50 mm
- Depth: 17.5 mm

Color:

- Housing: similar to RAL 9005
- Handle: similar to RAL 9006

			
	For lock inserts	For padlock and lock inserts	With lock insert, lock E1 ¹⁾
	Model No.		
	5001.060	5001.062	5001.061

Lock inserts, type F

7 mm square	8611.100	8611.100	-
8 mm square	8611.110	8611.110	-
7 mm triangular	8611.120	8611.120	-
8 mm triangular	8611.130	8611.130	-
Screwdriver	8611.140	8611.140	-
Daimler insert	8611.150	8611.150	-
3 mm double-bit	8611.160	8611.160	-
Fiat	8611.170	8611.170	-
6.5 mm triangular (CNOMO)	8611.220	8611.220	-

Safety and push-button lock inserts

Lock insert, lock no. 3524 E ²⁾	2467.000	2467.000	-
Push-button insert	2468.000	2468.000	-
Push-button and lock insert ²⁾	2469.000 ³⁾	2469.000 ³⁾	-

¹⁾ Only for use with VW, Audi, SEAT, SkodaAuto, supplied without key

²⁾ With 2 keys

³⁾ Lock no. 2123; other locks not suitable



Doors/Locks

Lock systems



Comfort handle

with code

for TS, TS IT, SE

Flexible access option with

- individual 3-digit number code, no key required or
- via master key function with additional use of 40 or 45 mm semi-cylinder in line with DIN 18 252, independent of number code

Color	Model No.
RAL 7035	7200.800
RAL 9005	7200.801



Accessories:

- Safety and push-button lock inserts, see page 483



Adjacent door lock

for TS

For easy operation of the adjacent door from the outside if the handle on the inside is difficult to access due to pivoting frames or 19" installed equipment. The adjacent door can easily be converted at a later date using the drilling template enclosed. The handle on the inside is no longer required.

Color:

- RAL 7035

Supply includes:

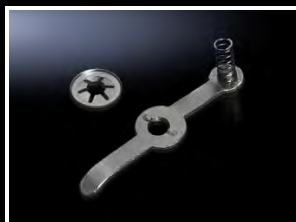
- Assembly components

Packs of	Model No.
1 pc(s).	8611.370



Accessories:

- Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 488



Locking bar latch to CNOMO¹⁾

Suitable for all locking bars on TS doors and glazed doors, with standard lock or comfort handle

The latch prevents locking bars from moving when the door is open. For mounting on the bolt of the bar guide.

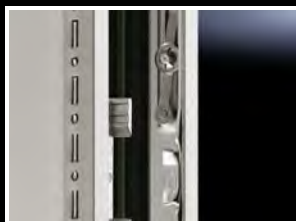
¹⁾ CNOMO is a specification by the French automobile industry, for safety reasons, it must not be possible to lock the handle while the door is open

Packs of	Model No.
10 pc(s).	8611.210



Also required:

- for CNOMO¹⁾
Lock inserts, type F, 6.5 mm triangular insert 8611.220, see page 488



Spring washer

When disassembling TS locking bars, the spring washers are not suitable for re-use.

Material:

- Spring steel

Surface finish:

- Zinc-plated

	Packs of	Model No.
Spring washer	100 pc(s).	8800.070

Mini-comfort handle**for AE with cam, EL 3-part**

Designed for the installation of lock inserts and for the installation of standard commercially available 40 or 45 mm semi-cylinders, as well as lock and push-button inserts.

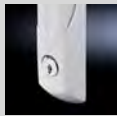
Material:

– Die-cast zinc

Color:

– RAL 7035



				
	For lock inserts		For semi-cylinder	
	Model No.			
For housing system	EL	AE	EL	AE
	7705.110	2537.010	7705.120	2537.000
Lock inserts, type F				
7 mm square	8611.100	8611.100	–	–
8 mm square	8611.110	8611.110	–	–
7 mm triangular	8611.120	8611.120	–	–
8 mm triangular	8611.130	8611.130	–	–
Screwdriver	8611.140	8611.140	–	–
Daimler insert	8611.150	8611.150	–	–
3 mm double-bit	8611.160	8611.160	–	–
Fiat	8611.170	8611.170	–	–
6.5 mm triangular (CNOMO)	8611.220	8611.220	–	–
Safety and push-button lock inserts				
Lock insert, lock no. 3524 E ¹⁾	8611.180	8611.180	2467.000	2467.000
Push-button insert	8611.190	8611.190	2468.000	2468.000
Push-button and lock insert ¹⁾	8611.200 ²⁾	8611.200 ²⁾	2469.000 ³⁾	2469.000 ³⁾

¹⁾ With 2 keys

²⁾ Lock no. 12321; other locks not suitable

³⁾ Lock no. 2123; other locks not suitable

Lock systems



Ergoform-S lock system

The unlocked handle folds out forwards and is pivoted to open the enclosure.

Material:

- Die-cast zinc

Surface finish:

- Powder-coated

			
	Standard	Standard for KS plastic enclosures	Special prepared for ASSA lock system
	Model No.		
Brown	–	–	2453.000
Matt nickel-plated	2452.000	–	–
RAL 7035	2435.000	1490.010	–
RAL 7035 with brown handle and bracket	2455.010	–	–
Lock inserts, type A			
7 mm square	2460.000	2460.000	–
8 mm square	2461.000	2461.000	–
7 mm triangular	2462.000	2462.000	–
8 mm triangular	2463.000	2463.000	–
Screwdriver	2464.000	2464.000	–
Daimler insert	2465.000	2465.000	–
3 mm double-bit	2466.000	2466.000	–
Fiat	2307.000	2307.000	–
6.5 mm triangular (CNOMO)	2460.650	2460.650	–
Safety and push-button lock inserts			
Lock insert, lock no. 3524 E ¹⁾	2467.000	2467.000	–
Push-button insert	2468.000	2468.000	–
Push-button and lock insert ¹⁾	2469.000 ²⁾	2469.000 ²⁾	–

¹⁾ With 2 keys

²⁾ Lock no. 2123; other locks not suitable

Plastic handles

with or without lock cylinder insert.

Supply includes:

- Assembly components and seal

Type	B		C		E		G
							
	With lock cylinder insert, lock no. 3524 E ¹⁾	Without lock cylinder insert	With lock cylinder insert, lock no. 3524 E ¹⁾	Without lock cylinder insert	With lock cylinder insert, lock no. 3524 E ¹⁾	Without lock cylinder insert	With lock cylinder insert, lock no. 3524 E ¹⁾
	Model No.						
RAL 9011	2576.000	2533.000	2485.000	2485.100	–	–	2599.000
RAL 8019	–	–	–	–	1484.000	1484.001	–

¹⁾ With 2 keys

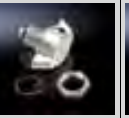
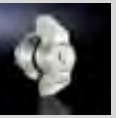


T handles

with or without lock cylinder insert.

Supply includes:

- Seal

Type	B		C		for JB, WM	
						
	With lock cylinder insert ¹⁾	Without lock cylinder insert	With lock cylinder insert ¹⁾	Without lock cylinder insert	Pad locking	Key locking
Model No.	2575.000²⁾	2572.000	2535.000²⁾	2536.000	8018.577	8018.982
Model No. US	–	–	–	–	WMQTPLS6	WMQTKLS6

¹⁾ With 2 keys

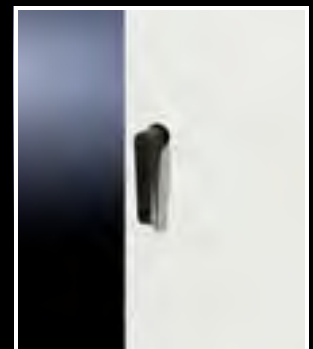
²⁾ Lock no. 3524 E



L-handle

for WM

				
		Non-locking	Pad-locking	Key-locking
Model No.	RAL 9011	8018.580	8018.581	8015.168
Model No. US		WMLHNL	WMLHPL	WMLHKL
Model No.	316 SS	8018.578	8018.579	8018.691
Model No. US		WMLHNLS6	WMLHPLS6	WMLHKLS6



Doors/Locks

Lock systems

Cam locks



						
	With double-bit insert	With lock cylinder insert ³⁾	With double-bit insert	With lock cylinder insert ³⁾	With lock insert, lock E1 ¹⁾ RAL 7035	With double-bit insert
Material: Housing	Die-cast zinc, nickel-plated		Fiberglass-reinforced polyamide			100% stainless steel 1.4404 (AISI 316L)
	Model No.					
	2520.000	2530.000	2420.000	2430.000	2540.500	2304.000

Lock inserts

7 mm square	2523.000	–	2460.000	–	–	–
8 mm square	2526.000	–	2461.000	–	–	–
7 mm triangular	2527.000	–	2462.000	–	–	–
8 mm triangular	2528.000	–	2463.000	–	–	–
Screwdriver	–	–	2464.000	–	–	–
Daimler insert	2522.000	–	2465.000	–	–	–
3 mm double-bit	2483.000	–	2466.000	–	–	–
Fiat	–	–	2307.000	–	–	–
6.5 mm triangular (CNOMO)	–	–	2460.650	–	–	–

Lock cylinder inserts

With lock no. 3524 E ²⁾	–	–	2571.000	–	–	–
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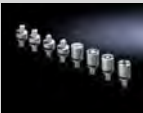
¹⁾ Only for use with VW, Audi, SEAT, SkodaAuto, supplied without key

²⁾ With 2 keys

³⁾ Lock no. 3524 E



Lock inserts

Type	A	C	D	E	F
					
Material	Die-cast zinc	Die-cast zinc	Die-cast zinc	Plastic	Die-cast zinc
Length	27 mm	41 mm	47 mm		
	Model No.				
7 mm square	2460.000	2523.000	–	–	8611.100
8 mm square	2461.000	2526.000	–	1488.000	8611.110
7 mm triangular	2462.000	2527.000	–	–	8611.120
8 mm triangular	2463.000	2528.000	–	1486.000	8611.130
Screwdriver	2464.000	–	–	–	8611.140
Daimler insert	2465.000	2522.000	–	–	8611.150
3 mm double-bit	2466.000	2483.000	2484.000	1492.000	8611.160
Fiat	2307.000	–	–	–	8611.170
6.5 mm triangular (CNOMO)	2460.650	–	–	–	8611.220

Lock cylinder inserts

Type	B	C
		
	With lock no. 3524 E ¹⁾	With lock no. 3524 E ¹⁾
Material	Die-cast zinc	Die-cast zinc
	Model No.	
	2571.000	2525.000

¹⁾ With 2 keys



Semi-cylinder lock

for AE compact enclosures

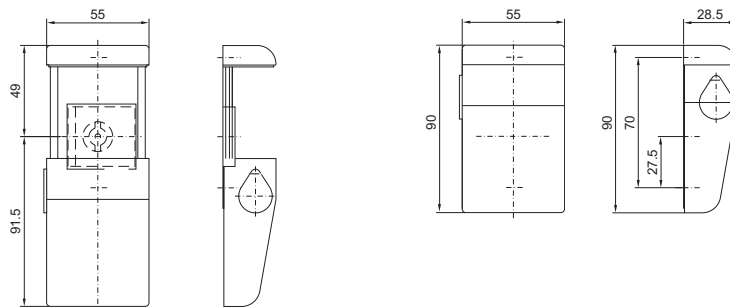
For retro-fitting to any single-door enclosure with cam lock.

The cover plate is locked with semi-cylinders measuring 40 or 45 mm overall (in line with DIN 18 252). Additional cover protects the cylinder from dirt. The protection category of the enclosure is not reduced. Supplied without semi-cylinder.

Material:

- Die-cast zinc

Type	Model No.
RAL 7035	2534.100
nickel-plated (matt)	2534.500



Lock cover

for padlocks or multiple locks

For retro-fitting to any AE compact enclosure made from carbon steel and with cam lock.

Material:

- Die-cast zinc

Surface finish:

- Nickel-plated

Packs of	Model No.
1 pc(s).	2493.000



Doors/Locks

Lock systems



Multiple lock

for 6 padlocks

The ideal solution when enclosure access is required by different maintenance and repair personnel.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Packs of	Model No.
2 pc(s).	2493.500



Safety lock

Fitted to doors, to protect against contact with live electrical equipment while the master switch is ON.

Function:

- Locks the door when the main switch is ON
- Mains power (voltage) is only enabled when the door is closed
- Lock magnets are monitored by an additional N.O. contact

Supply includes:

- Lock
- Actuator
- Angle bracket
- Assembly components

Supply voltage for lock magnet	Model No.
230 V AC 11 VA	2416.000
24 V DC 27 BTU (8 W)	2418.000
120 V AC 8 VA	2419.000



Also required:

- For double-door enclosures (indicating “enclosure door closed” for the overlapping door): door-operated switch 4127.010, see page 550



Padlock hasp

for EB, JB, AE, WM

Material	Model No.	Model No. US
Carbon steel	8018.973	WMPADRCS
Stainless steel 1.4301 (AISI 316)	8018.974	WMPADRS6

Enclosure key

For lock inserts (one double-bit key is supplied with every enclosure).

				
	Model No.			
	-	-	2549.000	2549.500 ²⁾³⁾
Double-bit key no. 5	2531.000	-	■	■
Security lock no. 3524 E	-	2532.000¹⁾	-	-
7 mm triangular	2545.000	-	-	■
8 mm triangular	2546.000	-	■	■
7 mm square	2547.000	-	-	■
8 mm square	2548.000	-	■	■
For HD locks	2549.600	-	-	-
For Daimler	2521.000	-	-	-
For Fiat	2308.000	-	-	-

¹⁾ Packs of 2

²⁾ With bit adapter and reversible bit for:
Multi-tooth size 25 and Phillips-head (Ph 2)

³⁾ Bit 2549.510 for HD lock insert, see page 164



Doors/Locks

Hinges



Hinges 130°/180°

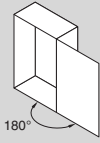
Supply includes:

- Assembly components



Also required:

- ¹⁾ Lock components for frame 8800.040, see page 468

Enclosure type	Door type	Material	Color	Packs of	 	
					Model No.	
TS 8, SE	Carbon steel door	Die-cast zinc	–	4 pc(s).	8800.020¹⁾	–
TS 8, SE	Carbon steel door	Die-cast zinc	RAL 7035	4 pc(s).	–	8800.190
			RAL 9005		–	8800.950
			Matt nickel-plated		–	8701.180
TS 8, SE	Doors with high dynamic loads, door fittings up to 900 N	Precision casting/ die-cast zinc	RAL 7035	4 pc(s).	–	8800.710
TS 8 bayed enclosure suites with comfort handle	Carbon steel door	Die-cast zinc	RAL 7035	4 pc(s).	–	7824.520
	Glazed door	Die-cast zinc	RAL 7035			7824.525²⁾
AE	Standard door	Die-cast zinc	–	2 pc(s).	–	2449.000
CM	Standard door	Die-cast zinc	RAL 9011/9006	3 pc(s).	–	5001.000

²⁾ max. 140°



Hinge pin remover

For safe and easy removal of hinge pins.

For housing	Model No.
AE/CM	2432.000



Cover hinge

for KL

The cover hinge is screwed to the enclosure protection channel and the lip of the cover.

Supply includes:

- Assembly components

Material	Packs of	Model No.
Die-cast zinc	6 pc(s).	1592.000
Stainless steel 1.4404 (AISI 316L)	2 pc(s).	1592.010



Cover retainer

for KL

The cover retainer installs easily without drilling, and allows the covers to be opened, even when the terminal box below is bayed.

Packs of	Model No.
3 pair(s)	1591.000

Utility tray, hinged

Hinged utility tray on which to rest programming and monitoring equipment. Latches into place when folded out and can be folded away when not in use.

Material:

- Carbon steel, 2.0 mm

Surface finish:

- Dipcoat-primed, powder-coated, textured paint

Color:

- RAL 7035

Supply includes:

- Assembly components



Height inches (mm)	Width inches (mm)	Depth inches (mm)	Weight lb (kg)	Packs of	Model No.	Model No. US
12 (305)	12 (305)	2 (51)	7.5 (3.4)	1 pc(s).	8018.859	FDS1212C
18 (457)	18 (457)	2 (51)	14 (6.4)	1 pc(s).	8018.860	FDS1818C

Doors/Locks

Door, Internal

Support Strips

For securing

- Cable ducts
- Cable conduit holders
- Contact hazard protection covers
- Door fittings
- Cable clampings and attachments

4.5 mm diameter hole on a 25 mm DIN hole pattern

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components



Accessories:

- Sheet metal screws and self-tapping screws M5, see page 539



For TS, SE, CM, TP



For AE

For door width inches (mm)	Length inches (mm)	Packs of	Model No.
16 (400)	11 (290)	20 pc(s).	4594.000
20 (500)	15 (390)	20 pc(s).	4309.000
24 (600)	19 (490)	20 pc(s).	4596.000
32 (800)	27 (690)	20 pc(s).	4598.000
35 (900)	31 (790)	20 pc(s).	4579.000
39 (1000)	35 (890)	20 pc(s).	4599.000

For AE enclosures	Packs of	Model No.
1018.600 ²⁾ , 1019.500 ²⁾ 1050.500 ¹⁾ , 1057.500 1100.500, 1110.500 1114.500 ¹⁾ , 1130.500 1213.500 ¹⁾ , 1350.500 ¹⁾	20 pc(s).	2325.000
1012.500 ²⁾ , 1039.500 1054.500, 1058.500 1060.500, 1076.500 1090.500, 1260.500 ¹⁾ 1339.500, 1360.500 1376.500	20 pc(s).	2326.000
1014.500 ²⁾ , 1073.500 1077.500	20 pc(s).	2327.000
1016.500 ²⁾ , 1017.500 ²⁾ 1055.500, 1180.500 1280.500 ¹⁾	20 pc(s).	2328.000

¹⁾ For these AE types, cut the support strips at the knockouts

²⁾ Only in conjunction with perforated mounting strip (see page 495)



Spacers

Utilized to mount components at an offset from mounting panel surface. Features a self-tapping thread for 4.5 mm diameter. The following components can be attached to the spacer using 5.5 x 13 mm sheet metal screws:

- Top hat/support profile rails
- Contact hazard protection covers
- Main switch trim panels
- Cable clamp rails
- etc.

Material:

- Hexagonal steel (SW8)

Surface finish:

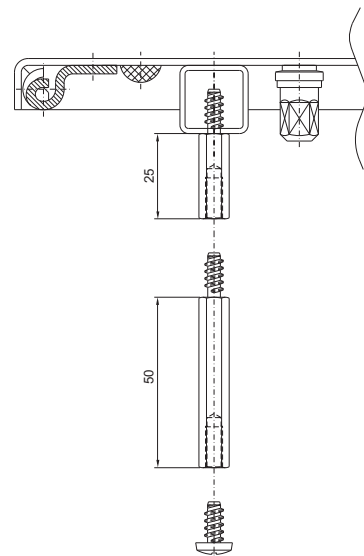
- Zinc-plated



Accessories:

- Sheet metal screws 5.5 x 13 mm, see page 539

Length inches (mm)	Packs of	Model No.
1 (25)	12 pc(s).	2311.225
2 (50)	12 pc(s).	2311.250



Door, Internal

Perforated Mounting Strip**for AE stainless steel**

For vertical attachment to the threaded bolts on the door, for securing

- Mounting strips for AE, see page 494
- Door stay 2519.000, see page 497

3.7 mm diameter hole on a 25 mm DIN hole pattern

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Packs of 20, incl. nuts and serrated washers

Suitable for AE	Length inches (mm)	Model No.
1012.600, 1014.600	27 (698)	2310.076
1016.600, 1018.600	37 (938)	2310.100
1017.600, 1019.500, 1019.600	45 (1138)	2310.120

**Accessories:**

- Sheet metal screws, see page 539

**Utility Tray**

Provides a working surface for programming devices and other equipment. Mounts to the tubular door frame of TS, SE, CM, PC or on any sufficiently large surface.

Quickly folds out during servicing while providing maximum surface space. Saves space by folding down in between tubular door frames when not in use.

Load capacity:

- max. 30 kg.

Material:

- Carbon steel

Color:

- RAL 7035

Support area		For door width inches (mm)	Model No.
Width inches (mm)	Depth inches (mm)		
16 (413)	16 (400)	24 (600)	4638.600
24 (613)	16 (400)	32 (800)	4638.800

**Wiring Plan Lectern**

Provides a working surface for wiring plans during maintenance work. The wiring plan lectern can be bayed depending on the door width. Mounted on the tubular door frame.

Material:

- Utility tray: Polypropylene
- Mounting bracket: Die-cast zinc

Color:

- Similar to RAL 7035

Supply includes:

- Wiring plan lectern (width 210 mm)
- Assembly components

For enclosures	Packs of	Model No.	
TS, SE, CM, TP, PC	1 pc(s).	4120.000	
For door width inches (mm)	Required/possible number of wiring plan lecterns		
	min.	max.	
16 (400)	1	1	
20 (500)	1	1	
24 (600)	2	2	
32 (800)	2	3	
39 (1000)	3	3	

**CD/DVD Box**

to be affixed to any flat, clean surface using double-sided adhesive tape.

Capacity:

- Max. 10 CDs/DVDs

Material:

- Polyamide

Color:

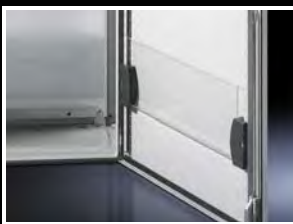
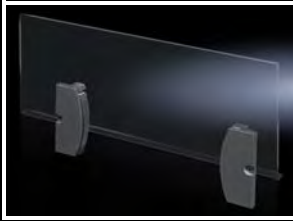
- RAL 7033

Packs of	Model No.
1 pc(s).	2446.000



Doors/Locks

Door, Internal



Plastic Wiring Plan Pockets

for AE

See table for installation options

- B = Screw-fastened to the perforated door strip on both sides
- E = Screw-fastened on one side, glued on the other or completely glued

Supply includes:

- 2 holders with double-sided adhesive tape
- Acrylic glazed pane
- Assembly components

Note:

- The acrylic glazed pane may be shortened to any required size for shorter doors

Model No.	2514.500	2514.600	2514.800
Usable width inches (mm)	13 (340)	16 (415)	24 (615)
Usable depth inches (mm)	1 (18)	1 (18)	1 (18)
Height of acrylic glazed pane inches (mm)	7 (167)	7 (167)	7 (167)

Installation options

For model no. AE	Width inches (mm)			
1050.500	20 (500)	B	–	–
1054.500	24 (600)	E	E	–
1055.500	32 (800)	E	E	E
1057.500	20 (500)	B	–	–
1058.500	24 (600)	E	E	–
1060.500	24 (600)	E	E	–
1073.500	30 (760)	E	E	–
1076.500	24 (600)	E	E	–
1077.500	30 (760)	E	E	–
1090.500	24 (600)	E	E	–
1100.500	39 (1000)	B	–	–
1110.500	39 (1000)	B	–	–
1114.500	39 (1000)	B ¹⁾	–	–
1130.500	39 (1000)	B	–	–
1180.500	32 (800)	E	E	E
1213.500	39 (1000)	B ¹⁾	–	–
1260.500	24 (600)	E	B	–
1280.500	32 (800)	E	E	B
1350.500	20 (500)	B	–	–
1360.500	24 (600)	E	E	–
1376.500	24 (600)	E	E	–

¹⁾ Prepared for mounting on the left door; the acrylic glazed pane can be shortened for mounting on the right door



Plastic Wiring Plan Pockets

Affixed to an inside door surface.

Material:

- Polystyrene with self-adhesive fastening strips

Color:

- Similar to RAL 7035

For format	Clearance openings inches (mm)			Model No.
	H	W	D	
DIN A3 landscape	11 (286)	17 (438)	2 (45)	2513.000
DIN A4 portrait	10 (254)	9 (228)	1 (17)	2514.000
DIN A5 landscape	7 (174)	9 (228)	1 (17)	2515.000



Wiring Plan Pockets with Transparent Pouch

With welded-on transparent pouch and self-adhesive backing.

For format	Model No.
DIN A4	2510.000
DIN A3	2512.000

Door, Internal

Wiring Plan Pockets, Carbon Steel

for TS, SE, CM, TP pedestal, PC

Fastened to tubular door frames at any height.

Color:

– RAL 7035

Supply includes:

– Assembly screws

D = 3.5" (90 mm)

Suitable for door width inches (mm)	Clearance openings inches (mm)		Model No.
	H	W	
16 (400)	8 (210)	10 (255)	4114.000
20 (500)	8 (210)	14 (355)	4115.000
24 (600)	8 (210)	18 (455)	4116.000
32 (800)	8 (210)	26 (655)	4118.000
35 (900)	8 (210)	30 (755)	4123.000
39 (1000)	8 (210)	34 (855)	4124.000

D = 1.4" (35 mm)

Suitable for door width inches (mm)	Clearance openings inches (mm)		Model No.
	H	W	
20 (500)	8 (210)	14 (355)	4115.500
24 (600)	8 (210)	18 (455)	4116.500
32 (800)	8 (210)	26 (655)	4118.500



Door Stay

To secure door in open position.

Supply includes:

– Assembly components

For	Mounting	Packs of	Model No.
TS, SE, PC	Bottom	5 pc(s).	4583.000
CM, TP	Top	2 pc(s).	2519.200
AE (except 1032.500 and 1035.500) and all AE stainless steel housings ¹⁾	Top	5 pc(s).	2519.000

¹⁾ With AE stainless steel, only in conjunction with perforated mounting strips, see page 495



Door Stay for Escape Routes for TS, SE, PC

In case of emergency, a conventional door stay may block a potential escape route. This stay is automatically released when pressure is applied, the door can be opened in both directions. When used in conjunction with 180° hinges, this door stay ensures a clear escape route in the event of emergency.

Supply includes:

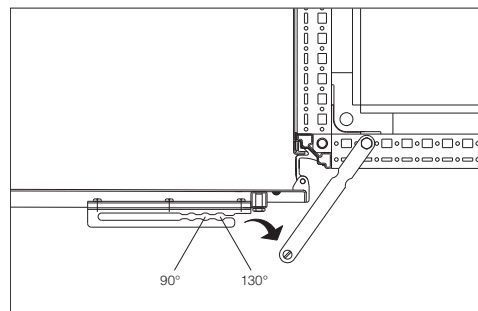
– Assembly components

Packs of	Model No.
1 pc(s).	4583.500

+ Accessories:

– 180° hinge, see page 492

180° hinge



Doors/Locks

Door, Internal



Ride-Up Roller

for TS, SE, PC

Assists in closing enclosure door when weighted down with installed equipment such as a cooling unit. Attaches to tubular door frame.

Packs of	Model No.
10 pc(s).	4538.000



Transport and Mounting Handle

for TS, SE doors

Utilized for safe installation and removal of the door and during transport. The hinge pin remover for 130° hinges is integrated, the remover for 180° hinges is supplied loose.

Packs of	Model No.
1 pc(s).	2415.100

for AE, CM

Supply includes:

- Assembly components



Accessories:

- Condensate discharge, see page 448
- Pressure relief plug, see page 448
- Wall mounting bracket 2503.010 and 2508.010, see page 504

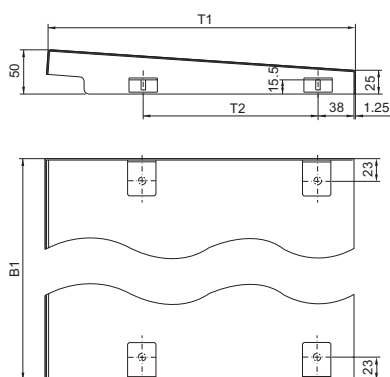
for AE, stainless steel version

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed, grain 240

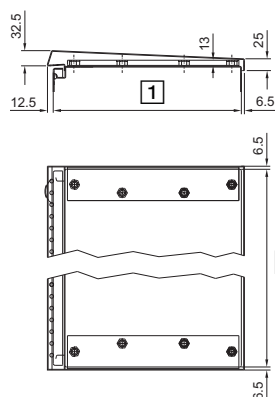


B1 = Housing width +11 mm

T1 = Housing depth +25 mm

T2 = Housing depth -90 mm, housing width 600 mm and over: Housing depth -115 mm

for CM, carbon steel version



1 Housing depth

2 Housing width

Note:

- For outdoor siting, we generally recommend a rain canopy above the housing or above the gap between the door and the housing, in order to protect against water and UV radiation
- Testing of IP protection categories for water protection (2nd code number to IEC 60 529) cannot be equated with the requirements for an enclosure sited outdoors or in similar conditions
- Additional measures should be implemented depending on the environmental conditions (see "Technical Information")

For		Model No.
Enclosure width inches (mm)	Enclosure depth inches (mm)	
8 (200)	6 (155)	2470.000
12 (300)	8 (210)	2361.000
15 (380)	6 (155)	2471.000
15 (380)	8 (210)	2472.000
20 (500)	8 (210)	2362.000
24 (600)	8 (210)	2473.000
30 (760)	12 (300)	2474.000
32 (800)	12 (300)	2475.000
39 (1000)	12 (300)	2363.000



Width inches (mm)	Depth inches (mm)	Model No.
24 (600)	16 (400)	5001.310
32 (800)	16 (400)	5001.330
39 (1000)	16 (400)	5001.350
47 (1200)	16 (400)	5001.360

Material:

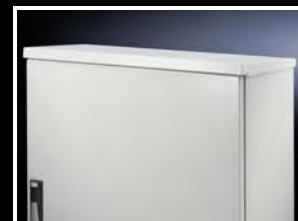
- Carbon steel

Surface finish:

- Powder-coated, textured paint

Color:

- RAL 7035



Roof/Wall Mounting

Roof



Dust guard trim

for AE, CM, EB, KL

To prevent dust from accumulating on the top edge of the door and between the housing and the door/lid. Cut dust guard trim to length according to the width of the housing. Drill holes in the housing and fit the trim using adhesive strip and screws.

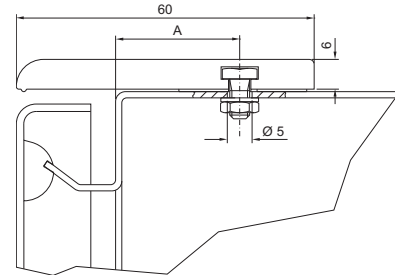
Material:

- Plastic, resistant to UV

Color:

- Similar to RAL 7024

For housing	Length inches (mm)	A inches (mm)	Model No.
AE	47 (1200)	1 (25)	2426.500
CM		0.8 (20)	
KL, EB		0.8 (20.5)	



Dust guard trim

for TS, SE

To prevent dust from accumulating on the top edge of the door and between the door and the upper horizontal enclosure profile. The dust guard provides space for text or company logos.

Color:

- RAL 7035

Supply includes:

- Clear plastic strip for text label (height 29.5 mm)

Length inches (mm)	Model No.
24 (600)	2424.100
32 (800)	2425.100
39 (1000)	2427.100
47 (1200)	2426.100

Note:

- Also suitable for use in conjunction with top baying cover 466

Roof/Wall Mounting

Roof

Top-mounted module

for TS

As a cable routing compartment for cable infeed from above or for power distribution using busbar systems across bayed enclosures. The standard TS roof plate is used to blank off the top of the enclosure. If a top-mounted module is used, the enclosure is raised by 200 mm.

The top baying cover cannot be fitted. Top and bottom expansion accessories, see diagram and explanation below.

Material:

– Carbon steel, 1.5 mm

Surface finish:

– Spray-finished, textured paint

Color:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 55

Protection category NEMA:

– NEMA 12

For enclosures		Model No.
Width (W) inches (mm)	Depth inches (mm)	
24 (600)	24 (600)	
32 (800)	24 (600)	
39 (1000)	24 (600)	
47 (1200)	24 (600)	8801.765

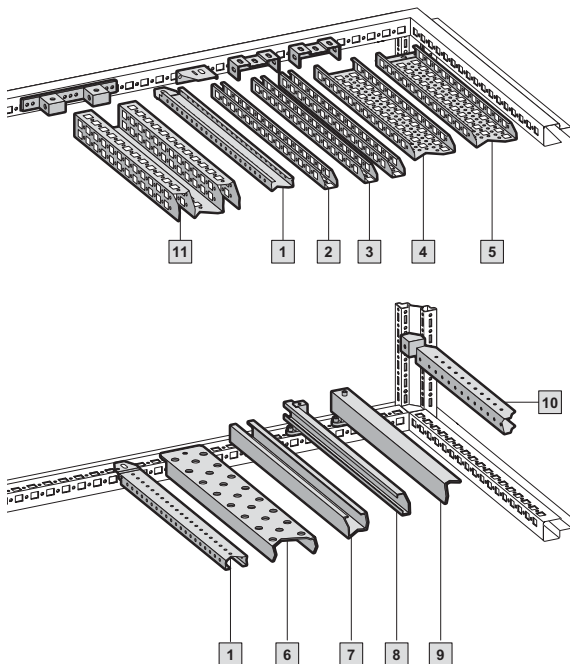
Supply includes:

- 1 frame module
- 2 trim panels (front and rear)
- 8 retainers with automatic potential equalization
- 4 threaded rods with transportation eyebolts



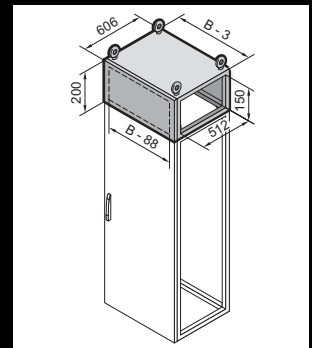
Also required:

- Side panel for top-mounted module, 8801.775, see page 501



Accessories:

Name	Page
1 TS punched rail 18 x 38 mm	525
2 PS punched rail 23 x 23 mm with angle brackets	526
3 PS punched rail 23 x 23 mm with PS support brackets	526
4 PS punched rail 23 x 73 mm with PS support brackets	527
5 PS system chassis 23 x 73 mm	528
6 Support rail	529
7 System support rails	529
8 C rail 30/15 with bracket or spacer	528
9 Cable clamp rail	574
10 TS punched rail 25 x 38 mm	524
11 TS punched section without mounting flange 45 x 88 mm	523



Side panel

for top-mounted module

To blank off the side of a top-mounted module or bayed suite.

Material:

– Carbon steel, 1.5 mm

Surface finish:

– Spray-finished, textured paint

Color:

– RAL 7035

Supply includes:

– Assembly components

Packs of	Model No.
2 pc(s).	8801.775



Roof/Wall Mounting

Roof



Roof mounting screw

To screw-fasten the roof plate in place of the transportation eyebolts. With contact washers for equipotential bonding.

Thread: M12

Material:

– Steel

Surface finish:

– Zinc-plated

Supply includes:

- 20 pan head screws M 12 x 20, hex socket
- 20 serrated lock washers A 12.5

Packs of	Model No.
20 pc(s).	4198.000



Spacers

for TS roof plate

To raise the TS roof for ventilation purposes, in three different heights.
Not suitable for crane transportation!

Thread: M12

Material:

– Hexagon section steel

Surface finish:

– Zinc-plated

Supply includes:

- Assembly components

Height inches (mm)	Packs of	Model No.
0.4 (10)	4 pc(s).	2422.000
0.8 (20)	4 pc(s).	2423.000
2 (50)	4 pc(s).	7967.000



Transportation eyebolts

for TS, SE

For crane transportation of enclosures, where not already included in the supply.

Thread: M12

Supply includes:

- 4 transportation eyebolts M12
- 4 serrated lock washers A 12.5

Material	Packs of	Model No.
Zinc-plated carbon steel C 15E	4 pc(s).	4568.000
Stainless steel 1.4301 (AISI 304)	4 pc(s).	4568.500



Transportation eyebolts

for CM

For crane transportation of enclosures, reinforcement plate to place underneath.
Mounting via the two holes in the top of the CM.

Thread: M12

Supply includes:

- Transportation eyebolts
- Reinforcement plates

Packs of	Model No.
2 pc(s).	2509.500



Transportation eyebolts

for AE

For crane transportation of enclosures, reinforcement plate to place underneath.

Thread: M12

Supply includes:

- Transportation eyebolts
- Reinforcement plates

Packs of	Model No.
4 pc(s).	2509.000

Roof/Wall Mounting

Wall mounting

Slotted wallmount bracket

for KL, EB, JB, AE, WM

This bracket has similar functionality to a standard NEMA flange plate, in that the slot on the lower bracket can be used for installation or removal.

Supply includes:

- 1 set = 4 pc(s).

Material	Packs of	Model No.	Model No.
Zinc-plated	1 set(s)	8018.790	WMSMB
Stainless steel 316L	1 set(s)	8018.791	WMSMB6



Wall mounting bracket

To mount KL, JB, EB, BG and IT housings based on EL.

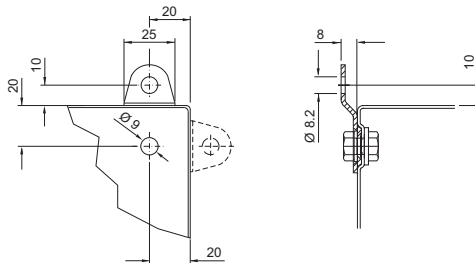
Supply includes:

- Assembly components for mounting on housing

Note:

- For hygiene reasons, and in view of the protection category, the stainless steel housings do not have any drilled holes for the wall mounting brackets

Material	Wall clearance inches (mm)	Packs of	Model No.
Brass, nickel-plated	0.3 (8)	4 pc(s).	1580.000
Carbon steel, zinc-plated	0.3 (8)	4 pc(s).	1590.000
Stainless steel 1.4301 (AISI 304)	0.3 (8)	4 pc(s).	1594.000



Wall mounting bracket

for AE, WM

For external mounting on the housing. Simply insert the expandable dowel into the housing hole from the outside, and screw-fasten the wall bracket from the outside.

Material:

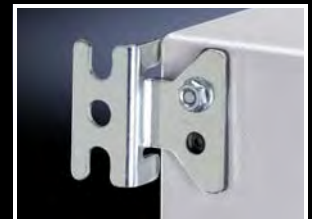
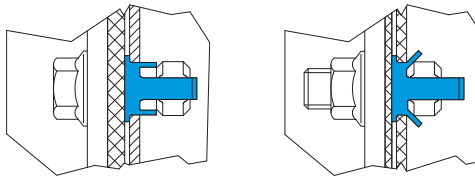
- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Wall bracket pre-fitted with seal and expandable dowel



Roof/Wall Mounting

Wall mounting



Wall mounting bracket

To mount KL, EB, BG, AE, CM, IT housings based on EL and AE, TP top pieces.

Supply includes:

- Assembly components for mounting on housing

Note:

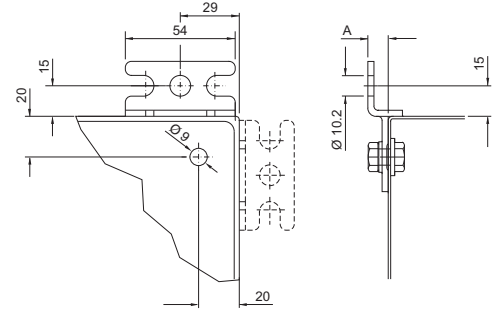
- Item 2503.010 is only suitable for use up to a depth of 600 mm

Material	Wall clearance (A) inches (mm)	Packs of	Model No.
Carbon steel, zinc-plated	1.6 (40)	4 pc(s).	2503.010
	0.4 (10)	4 pc(s).	2508.010
Stainless steel 1.4301 (AISI 304)	0.4 (10)	4 pc(s).	2433.000
Stainless steel 1.4404 (AISI 316L)	0.4 (10)	4 pc(s).	2433.500



Possible alternative:

- Hygienic Design wall spacer bracket, see page 164



Wall mounting bracket

for KS

To enable wall-mounting of the enclosure from the outside of the enclosure only.

Material:

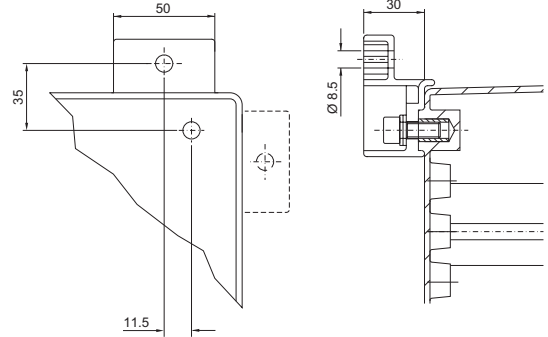
- Fiberglass-reinforced polyamide¹⁾

Supply includes:

- Assembly components for mounting on housing

Color	Packs of	Model No.
Similar to RAL 7035	4 pc(s).	1483.010
Similar to RAL 9011	4 pc(s).	9266.000¹⁾

¹⁾ With graphite additive for Ex applications



Roof/Wall Mounting

Wall mounting

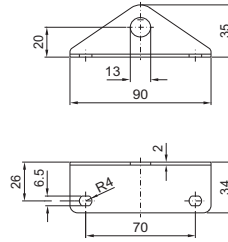
Wall mounting angle

For compact enclosures (additional holes must be drilled in the housing).

Supply includes:

- Assembly components for mounting on housing

Material	Color	Packs of	Model No.
Carbon steel	RAL 7035	4 pc(s).	2505.510
Stainless steel 1.4301 (AISI 304)	–	4 pc(s).	2583.010



Wall bracket

For wall mounting of TS and SE enclosures on the roof, suitable for enclosures with minimal depth and heavy components on the door or built-in pivoting frame.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Packs of	Model No.
4 pc(s).	4595.000



Possible alternative:

- On TS 8 inside the enclosure (without mounting plate) buying attachment 8800.470, see page 464



Pole clamp

for KL, EB, AE, KS

For reliable, convenient fastening to round or square poles.

For pole diameter/size:

- Ø from 40 to 190 mm
- □ from 50 to 150 mm

Material:

- Profile rails, clamping section: Carbon steel
- Clamping strap: Stainless steel 1.4301 (AISI 304)

Surface finish:

- Profile rail, clamping section: Zinc-plated

Supply includes:

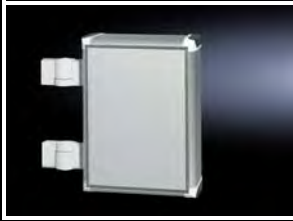
- 2 profile rails, 600 mm long
- 4 clamping sections
- 2 clamping straps
- 4 clamping brackets
- 4 screws and M8 captive nuts for mounting on the enclosure

Packs of	Model No.
1 set(s)	2584.000



Roof/Wall Mounting

Wall mounting



Housing connectors

Adjustable

Between command panels, terminal boxes, compact enclosures and horizontal or vertical surfaces. Pre-assemble the two halves of the connector, slide into one another and fasten with locking screw and/or adjust the pivot bracket.

Pivot range:

- $\pm 105^\circ$ adjustable in 7.5° stepped increments

Material:

- Die-cast zinc

Surface finish:

- Powder-coated

Color:

- RAL 7035

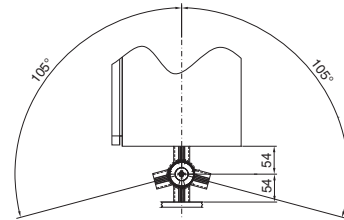
Supply includes:

- Assembly components for both sides

Packs of	Model No.
1 set(s)	6016.200

Note:

- The locking screws may be exchanged for standard, commercially available clamping levers (M10 x 50 mm)



Frame connector, adjustable

for Comfort Panel

Between command panels and keyboard housing and horizontal or vertical surfaces.

Pivot range:

- Adjustable in 8° stepped increments, see drawing

Material:

- Die-cast zinc

Surface finish:

- Powder-coated

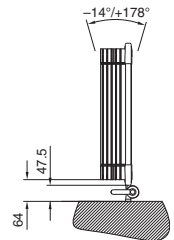
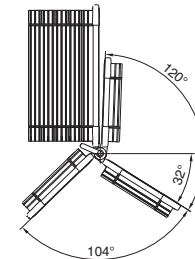
Color:

- RAL 7024

Supply includes:

- Assembly components and clamping levers for both sides

Packs of	Model No.
1 set(s)	6005.500



Mounting Plates

for KL and KL-HD

For component installation outside of the housing.
Assembly screws in the housing accessories.

Material:

- Carbon steel, 2 mm

Surface finish:

- Zinc-plated



Accessories:

- Self-tapping screws 2487.000, see page 539

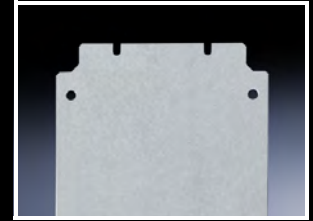


Possible alternative:

- Support rails, see page 530

Technical details:

Available on the Internet



For dimension, inches (mm)	For Model no. for KL and KL-HD	Model No.
6 x 6 (150 x 150)	1500.510, 1514.510, 1521.010, 1527.010, 1670.600, 1671.600	1560.700
8 x 6 (200 x 150)	1528.510, 1529.510	1575.700
12 x 6 (300 x 150)	1501.510, 1515.510, 1522.010, 1530.510	1561.700
16 x 6 (400 x 150)	1589.510	1576.700
8 x 8 (200 x 200)	1502.510, 1516.510, 1523.010, 1528.010, 1672.600	1562.700
12 x 8 (300 x 200)	1503.510, 1517.510, 1524.010, 1529.010, 1531.510, 1674.600	1563.700
16 x 8 (400 x 200)	1504.510, 1518.510, 1525.010, 1532.510, 1675.600	1564.700
20 x 8 (500 x 200)	1505.510, 1533.510	1565.700
24 x 8 (600 x 200)	1506.510, 1519.510, 1534.510	1566.700
32 x 8 (800 x 200)	1527.510, 1542.510	1574.700
12 x 12 (300 x 300)	1507.510, 1526.010, 1535.510	1567.700
16 x 12 (400 x 300)	1508.510, 1530.010, 1536.510, 1676.600	1568.700
20 x 12 (500 x 300)	1509.510, 1537.510	1569.700
24 x 12 (600 x 300)	1510.510, 1538.510	1570.700
16 x 16 (400 x 400)	1511.510, 1539.510	1571.700
24 x 16 (600 x 400)	1512.510, 1540.510	1572.700
32 x 16 (800 x 400)	1513.510, 1541.510	1573.700

Mounting Plate

for TS, 400 mm wide

Depth-adjustable in 25 mm stages.

Material:

- Carbon steel, 3 mm

Surface finish:

- Zinc-plated

Supply includes:

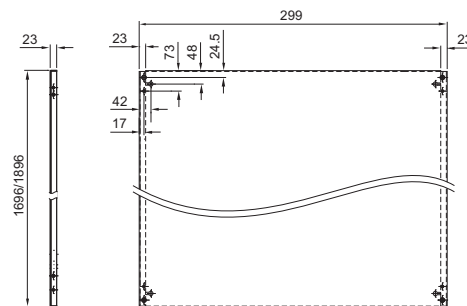
- Assembly components



Accessories:

- TS punched rail 18 x 38 mm, as mounting plate slide rail, see page 525
- TS width divider, for installation in wider enclosures, see page 438

For enclosure height inches (mm)	Model No.
71 (1800)	8614.180
79 (2000)	8614.200



Mounting Plate Infill

for TS

For a continuous mounting surface in bayed suites where the mounting plate is set forward.

Material:

- Carbon steel, 2 mm

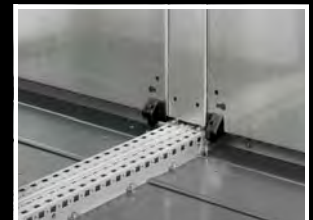
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure height inches (mm)	Model No.
71 (1800)	4590.700
79 (2000)	4591.700
87 (2200)	4592.700



Interior Fittings

Mounting Plates

Mounting Plate Attachment

For additional clamping and to reduce potential vibration in the mounting plate. Select according to mounting position, installation type and enclosure.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For TS, SE

Installation options:

- Side, at half height in conjunction with mounting plate infill
- In the penultimate position
- Set forward (supplied state)

Advantage:

No impairment to the mounting surface, but mounting is only possible from the enclosure rear

Packs of	Model No.
10 pc(s).	8800.630

**Accessories:**

- Mounting plate infill, see page 507

For TS, SE

Installation options:

- Side
- Rear, flush with enclosure frame

Advantage:

No impairment to the mounting surface, but mounting is only possible from the enclosure rear

Packs of	Model No.
10 pc(s).	8800.610

For TS, SE

Installation options:

- Side
- Rear, flush with enclosure frame
- Set forward on a 25 mm hole pattern

Advantage:

No impairment to the mounting surface, can be optionally used as a fastening or screw-connection

Packs of	Model No.
10 pc(s).	8800.090

**Also required:**

- System chassis 17 x 73 mm for the inner mounting level, see page 522 (with Fig. 3)

1 Mounting plate secured in rearmost installation position using screw

2 Mounting plate screw-fastened in rearmost installation position from the rear-side

3 Mounting plate secured using a screw or screw-fastened in forward position (not shown)

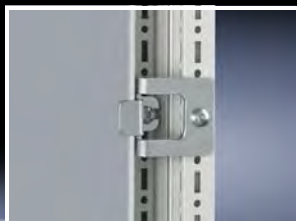
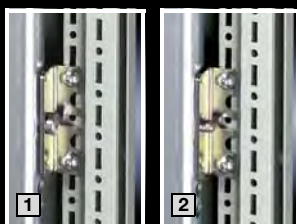
For TS, SE

Installation options:

- Side
- Rear, flush with enclosure frame

Slide over the plate at the side and secure with screws. Additionally, the mounting plate may be drilled and screw-fastened at the rear C-edge.

Packs of	Model No.
10 pc(s).	8800.050



Mounting Plate Attachment

For additional clamping and to reduce potential vibration in the mounting plate. Select according to mounting position, installation type and enclosure.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For TS, SE

Installation options:

- All-round
- Set forward on a 25 mm hole pattern

Slide in between the bar and plate from below or above or from the side, and secure with screws.

Packs of	Model No.
10 pc(s).	4593.000



Also required:

- Support strip (for inner level with TS), see page 525 or
- System chassis (for inner level with TS), see page 522 or
- Punched rails and punched sections, see page 526/527



For TS, SE

Installation options:

- Top and bottom to mounting plate
- Rear, flush with enclosure frame

Screw in the ring bracket behind the plate and secure with screws.

Packs of	Model No.
10 pc(s).	4576.000



Installation Kit

for mounting plates TS, SE, back-to-back

The minimal distance between the two mounting plates ensures maximum installation depth for assemblies on both sides.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Note:

Build depth front and rear, with central installation = (enclosure depth - 48 mm): 2

Example:

8806.521 = depth 600 mm

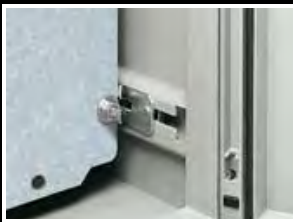
Build depth = 2 x 276 mm

Packs of	Model No.
1 set(s)	8800.280



Interior Fittings

Mounting Plates



Slide Rails

for TS mounting plate

For inserting at the sides.

- Mounting plate secured to the slide rails using captive nuts and screws.
- Slide rails mounted directly on the enclosure frame, depth-adjustable in 25 mm stages.

Technical specifications:

- Possible mounting depth T6 -25 mm, available on the Internet

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	2 pc(s).	8802.260
32 (800)	2 pc(s).	8802.280
47 (1200)	2 pc(s).	8802.220

Mounting Plate Depth Adjustment

for KS

Infinitely adjustable.

Other equipment can also be installed on a rail system in this way, rather than the mounting plate.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

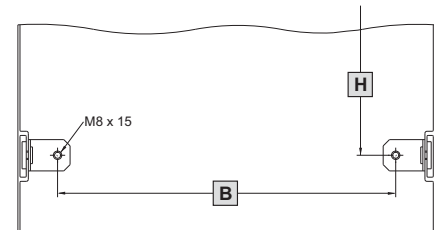
Supply includes:

- Assembly components

- H** Housing height:
– 150 mm

- B** Housing width:
– 76 mm (1481.000)
– 104 mm (1491.000)

For KS enclosures	Packs of	Model No.
1423.500, 1432.500, 1434.500, 1444.500, 1446.500, 1448.500, 1449.500, 1466.500, 1467.500	4 pc(s).	1481.000
1400.500, 1453.500, 1454.500, 1468.500, 1469.500, 1479.500, 1480.500	4 pc(s).	1491.000



Mounting Plate Attachment

**for CM, TP one-piece console, TP pedestal
for highly dynamic loads**

Used if the mounting plate needs to be directly connected to a wall/support structure, e.g. when transporting enclosures (crane systems, etc.). Tested according to DIN EN 60 721 immunity test level 3 M4, with 150 kg weight evenly distributed on mounting plate. Simply fit in the existing holes in the prefitted mounting plate for:

Wall mounting from the inside

Direct using a bracket and wall/support-mounted housing.

Wall mounting from the outside

Screws for wall mounting brackets (see page 503) can easily be screwed into the plate nuts from the outside

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
1 set(s)	5001.075



Cross-Braces for Mounting Plates

for TS, SE

Additional horizontal cross braces to dampen vibrations and/or for retrospective stabilization of wide mounting plates. The braces can also be used as an additional aid to secure heavy structural elements.

Material:

- Carbon steel

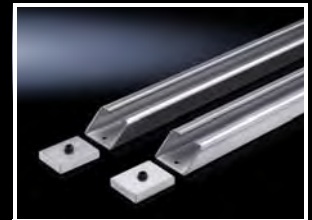
Surface finish:

- Zinc-plated

Supply includes:

- 2 sections
- 4 clamps
- 4 grub (set) screws M10 x 16 mm

For enclosure width inches (mm)	Model No.
47 (1200)	4333.120
63 (1600)	4333.160
71 (1800)	4333.180



Transport Handles for Mounting Plates

for TS, SE

Can be used at any given position in the side C-fold. Thus

- Suitable for use at various heights
- optimized force transmission
- easy to use

Packs of	Model No.
2 pc(s).	2415.500



Interior Fittings

Mounting Plates



Partial Mounting Plates

for TS, SE

For

- universal interior fittings also in combination with system chassis and mounting strips, faulty assemblies can be replaced quickly and easily
- additional mounting levels

Partial mounting plates are fastened directly onto the vertical enclosure profiles via the inner mounting level using the assembly components supplied loose. In this installation position (in both the width and the depth) they form one level with TS system chassis 17 x 73 mm and TS mounting strips for the inner mounting level.

Material:

- Carbon steel, 2.5 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

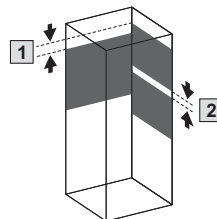


Accessories:

- TS system chassis 17 x 73 mm for the outer mounting level, see page 522
- TS support strips, see page 525
- Hinge attachment, see page 513
- Self-tapping screws, 2487.000, see page 539

For installation in									Dimensions inches (mm)	Packs of	Model No.
Enclosure width inches (mm)					Enclosure depth, side inches (mm)						
16 (400)	24 (600)	32 (800)	39 (1000)	47 (1200)	16 (400)	20 (500)	24 (600)	32 (800)			
■	■				■		■		20 x 12 (500 x 300)	1 pc(s).	8614.640
	■					■	■		20 x 16 (500 x 400)	1 pc(s).	8614.650
	■						■		20 x 20 (500 x 500)	1 pc(s).	8614.660
	■	■					■	■	20 x 28 (500 x 700)	1 pc(s).	8614.680
	■						■		20 x 31 (500 x 775)	1 pc(s).	8614.675¹⁾
■		■			■			■	28 x 12 (700 x 300)	1 pc(s).	8614.840
		■				■		■	28 x 16 (700 x 400)	1 pc(s).	8614.850
		■						■	28 x 28 (700 x 700)	1 pc(s).	8614.880
■			■		■				35 x 12 (900 x 300)	1 pc(s).	8614.040
			■			■			35 x 16 (900 x 400)	1 pc(s).	8614.050
	■		■				■		35 x 20 (900 x 500)	1 pc(s).	8614.060
■				■	■				43 x 12 (1100 x 300)	1 pc(s).	8614.240
				■		■			43 x 16 (1100 x 400)	1 pc(s).	8614.250
	■			■			■		43 x 20 (1100 x 500)	1 pc(s).	8614.260

¹⁾ Also suitable for installing in PC enclosures based on TS behind the lower front door

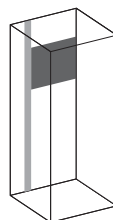


When **installing across corners** due to collision of assembly components

- 1** at least 75 mm (adjustable in 25 mm hole pattern)

Maximum utilization of space

- 2** 1 mm (adjustable in 25 mm hole pattern)



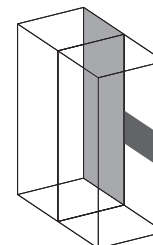
Partial installation

Partial utilization of the enclosure depth of width is also possible, in this example by using a PS punched section without mounting flange 23 x 73 mm, see page 527



Forward installation position

Achieved quickly and easily using 4 TS system chassis 17 x 73 mm for the outer mounting level, see page 522



Flush all-round

With bayed enclosures, the partial mounting plate is flush with the standard mounting plate in the rear-most installation position, which facilitates full-length population

Hinge Attachment

for partial mounting plate TS, SE

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
1 set(s)	8614.100



Also required:

- [1] Installation kit for pivoting frame, small, for enclosure width 600 mm 2377.860, 800 mm 2377.880, see page 587
- [2] PS punched section without mounting flange 23 x 73 mm as per enclosure depth, see page 527, Combination support bracket 8800.330, see page 535, depending on installation position

Side installation:

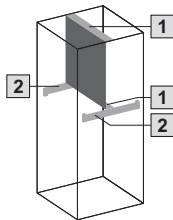
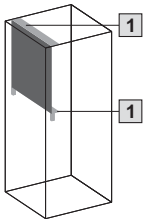
In conjunction with hinge, for side panel, see page 452, the side installation is identical with the parallel-to-front position with an enclosure depth of 600 or 800 mm

Examples

In topmost or lowest positions

front

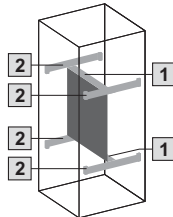
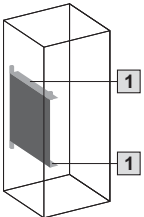
set back



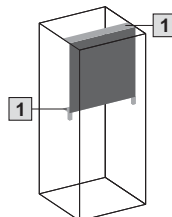
In central positions

front

set back



Side installation



Partial Mounting Plates, Locatable into Rails

for TS, SE, TP

For installation in

- Console and desk unit on the system rails for interior fitting
- System chassis or mounting strips fitted to the side of the pedestal in the depth
- Other enclosures mounted on rails with 25 mm hole pattern punchings

For easy installation on prefitted assembly screws. Bayable by screw-fastening at the sides.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

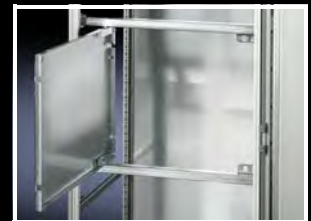
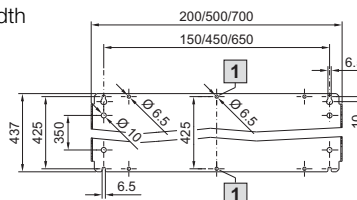
Supply includes:

- Assembly components

Height inches (mm)	Width inches (mm)	Packs of	Model No.
17 (437)	8 (200)	1 pc(s).	6730.310
17 (437)	20 (500)	1 pc(s).	6730.330
17 (437)	28 (700)	1 pc(s).	6730.340

For console top piece/ desk unit Width inches (mm)	Max. no. of poss. partial mounting plates
24 (600)	1 x 6730.330
32 (800)	1 x 6730.340
47 (1200)	2 x 6730.310 1 x 6730.340
63 (1600)	1 x 6730.330 1 x 6730.340

- [1] From width 500 mm



Interior Fittings

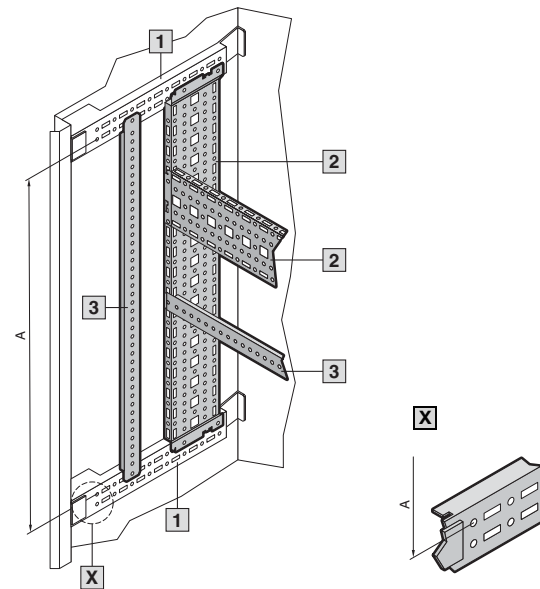
Rail systems

AE Configuration Examples with TS System Rails

1 Rails for interior fitting (preparation for configuration)					
For housing depth, inches (mm)	Packs of	8 (210)	10 (250)	12 (300)	14 (350)
Model No.	4 pc(s).	2383.210	2383.250	2383.300	2383.350
					Page
					521

Interior fitting in the height and width								
2 TS system chassis 17 x 73 mm	AE from housing height/width inches (mm)	A ¹⁾ inches (mm)	Packs of	Model No.				
	15 (380)	9 (225)	4 pc(s).	8612.130	8612.130	8612.130	8612.130	522
	20 (500)	13 (325)	4 pc(s).	8612.140	8612.140	8612.140	8612.140	
		15 (375)	4 pc(s).	8612.040	8612.040	8612.040	8612.040	
	24 (600)	17 (425)	4 pc(s).	8612.150	8612.150	8612.150	8612.150	
		19 (475)	4 pc(s).	8612.050	8612.050	8612.050	8612.050	
	30 (760)	21 (525)	4 pc(s).	8612.160	8612.160	8612.160	8612.160	
		23 (575)	4 pc(s).	8612.060	8612.060	8612.060	8612.060	
	39 (1000)	29 (725)	4 pc(s).	8612.180	8612.180	8612.180	–	
		31 (775)	4 pc(s).	8612.080	8612.080	8612.080	–	
		34 (875)	4 pc(s).	8612.090	8612.090	8612.090	–	
	47 (1200)	36 (925)	4 pc(s).	–	–	8612.100	–	
		38 (975)	4 pc(s).	–	–	8612.000	–	
	55 (1400)	44 (1125)	4 pc(s).	–	–	8612.120	–	
		46 (1175)	4 pc(s).	–	–	8612.020	–	
3 TS support strip	16 (400)	13 (325)	20 pc(s).	4694.000	4694.000	4694.000	4694.000	525
	20 (500)	17 (425)	20 pc(s).	4695.000	4695.000	4695.000	4695.000	
	24 (600)	21 (525)	20 pc(s).	4696.000	4696.000	4696.000	4696.000	
	32 (800)	29 (725)	20 pc(s).	4697.000	4697.000	4697.000	4697.000	

¹⁾ A = Rail mounting distance



CM Configuration Examples with TS System Rails

1 Rails for interior fitting (preparation for configuration)							
For housing height/width, inches (mm)	Packs of	24 (600)	32 (800)	39 (1000)	47 (1200)	55 (1400)	Page
Model No.	4 pc(s).	5001.050	5001.051	5001.052	5001.053	5001.054	521

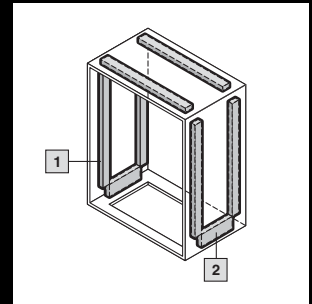
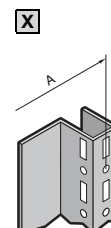
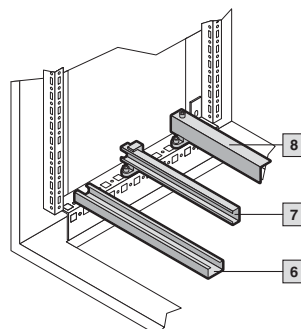
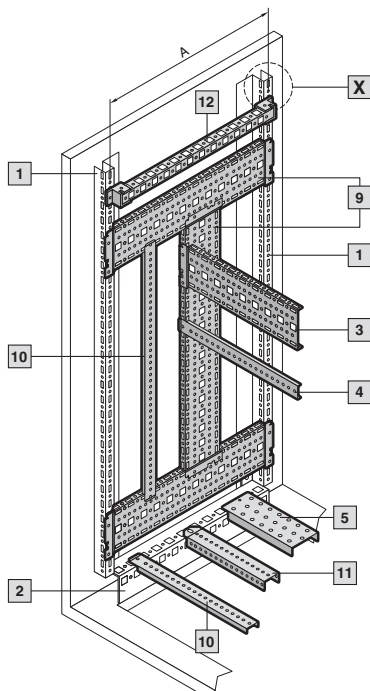
2 Base configuration rails (preparation for configuration)							
For housing depth, inches (mm)	Packs of	–	16 (400)	–	–	–	
Model No.	2 pc(s).	–	5001.370	–	–	–	524

Configuration widthways							
	Packs of	Model No.					
For housing width, inches (mm)		24 (600)	32 (800)	39 (1000)	47 (1200)	55 (1400)	
A ¹⁾ inches (mm)		23 (575)	31 (775)	38 (975)	46 (1175)	–	
3 TS system chassis 17 x 73 mm	4 pc(s).	8612.060	8612.080	8612.000	8612.020	–	522
4 TS support strips	20 pc(s).	8800.130	4579.000	–	–	–	525
5 Support rail	4 pc(s).	4396.000	4398.000	–	–	–	529
	4 pc(s).	4396.500	4398.500	–	–	–	529
6 System support rails	2 pc(s).	4361.000	4362.000	4347.000	4363.000	–	529
7 C rails 30/15	6 pc(s).	4944.000	4945.000	4946.000	4947.000	–	528
8 Cable clamping rail	2 pc(s).	4191.000	4192.000	4336.000	4196.000	–	574

Configuration in the height (individual configuration with e.g.)	
TS system chassis 17 x 73 mm	see page 522
TS support strips	see page 525

Configuration in the depth								
	For housing depth inches (mm)	A ¹⁾ inches (mm)	Packs of	Model No.				
9 TS system chassis 17 x 73 mm	12 (300)	9 (225)	4 pc(s).	8612.130	8612.130	8612.130	8612.130	8612.130
	16 (400)	13 (325)	4 pc(s).	8612.140	8612.140	8612.140	8612.140	8612.140
10 TS support strips	16 (400)	13 (325)	20 pc(s).	4694.000	4694.000	4694.000	4694.000	4694.000
11 TS punched rail 18 x 38 mm	16 (400)	13 (325)	4 pc(s).	8612.240	8612.240	8612.240	8612.240	8612.240
12 PS punched rail 23 x 23 mm	16 (400)	11 (275)	12 pc(s).	4169.000	4169.000	4169.000	4169.000	4169.000
with TS mounting bracket (2 pcs per rail)			24 pc(s).	8800.370	8800.370	8800.370	8800.370	8800.370
								534

¹⁾ A = Rail mounting distance



Interior Fittings

Rail systems

TP Pedestal/One-Piece Console Configuration Examples with TS System Rails

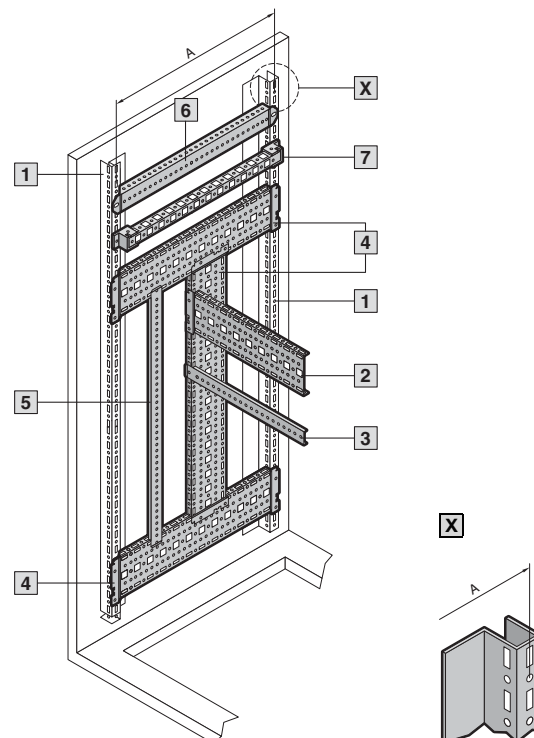
1 Rails for interior fitting (preparation for configuration)						
For housing height, inches (mm)	Packs of	27 (675)	27 (675)	27 (675)	27 (675)	Page
For housing width, inches (mm)		24 (600)	32 (800)	47 (1200)	63 (1600)	
Model No.	4 pc(s).	5001.050	5001.050	5001.050	5001.050	521

Configuration in the height (individual configuration with e.g.)	
TS support strips	see page 525
TS punched rail 18 x 38 mm	see page 525

Configuration widthways					
	Packs of	Model No.			
For housing width, inches (mm)		24 (600)	32 (800)	47 (1200)	63 (1600)
A ¹⁾ inches (mm)		23 (575)	31 (775)	46 (1175)	62 (1575)
2 TS system chassis 17 x 73 mm	4 pc(s).	8612.060	8612.080	8612.020	–
3 TS support strips	20 pc(s).	8800.130	4579.000	–	–

Configuration in the depth							
	For housing depth inches (mm)	A ¹⁾ inches (mm)	Packs of	Model No.			
4 TS system chassis 17 x 73 mm	16 (400)	13 (325)	4 pc(s).	8612.140	8612.140	8612.140	8612.140
	20 (500)	17 (425)	4 pc(s).	8612.150	8612.150	8612.150	8612.150
5 TS support strips	16 (400)	13 (325)	20 pc(s).	4694.000	4694.000	4694.000	4694.000
	20 (500)	17 (425)	20 pc(s).	4695.000	4695.000	4695.000	4695.000
6 TS punched rail 18 x 38 mm	16 (400)	13 (325)	4 pc(s).	8612.240	8612.240	8612.240	8612.240
	20 (500)	17 (425)	4 pc(s).	8612.250	8612.250	8612.250	8612.250
7 PS punched rail 23 x 23 mm	16 (400)	13 (325)	12 pc(s).	4169.000	4169.000	4169.000	4169.000
	20 (500)	17 (425)	12 pc(s).	4170.000	4170.000	4170.000	4170.000
with TS mounting bracket (2 pcs per rail)			24 pc(s).	8800.370	8800.370	8800.370	8800.370

¹⁾ A = Rail mounting distance



TP Console Top-Section Configuration Examples with TS System Rails

1 Rails for interior fitting (preparation for configuration)							
For housing width, inches (mm)	Packs of	24 (600)	32 (800)	47 (1200)	63 (1600)	Page	
Model No.	4 pc(s).	5001.050	5001.051	5001.053	5001.054	521	

Configuration in the height							
	A ¹⁾ inches (mm)	Packs of	Model No.				
For housing width, inches (mm)			24 (600)	32 (800)	47 (1200)	63 (1600)	

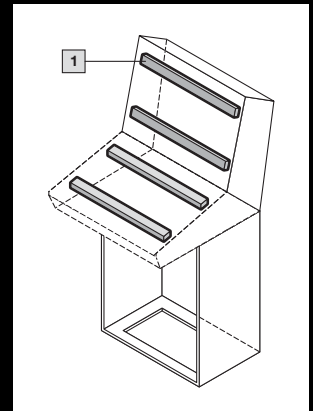
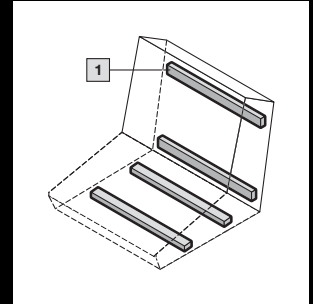
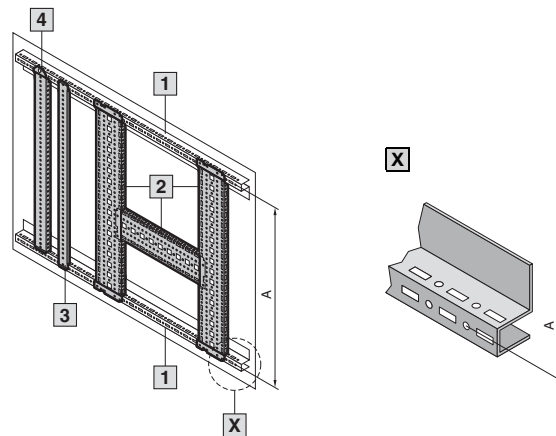
2 TS system chassis 17 x 73 mm							
For cover	15 (375)	4 pc(s).	8612.040	8612.040	8612.040	8612.040	522
For housing	17 (425)	4 pc(s).	8612.150	8612.150	8612.150	8612.150	522

3 TS support strips							
For cover	15 (375)	4 pc(s).	4309.000	4309.000	4309.000	4309.000	525
For housing	17 (425)	4 pc(s).	4695.000	4695.000	4695.000	4695.000	525

4 TS punched rail 18 x 38 mm							
For housing	17 (425)	4 pc(s).	8612.250	8612.250	8612.250	8612.250	525

¹⁾ A = Rail mounting distance

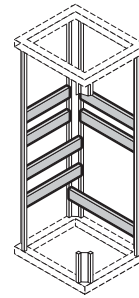
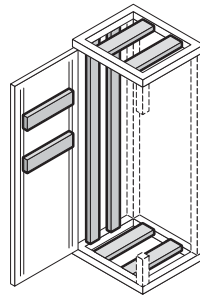
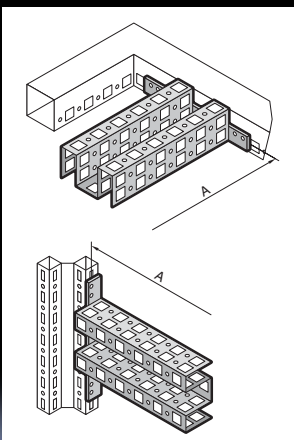
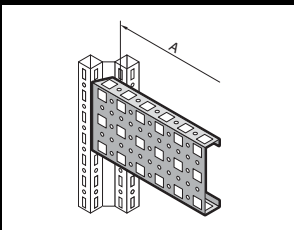
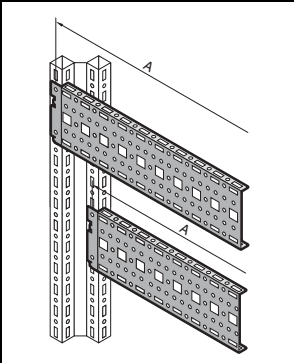
Console top-section/desk unit/console lid



Interior Fittings

Rail systems

TS/SE Configuration Examples with TS System Rails



	Installation in roof and base frames in the width/depth	Installation between vertical profiles in the width/depth	
		Inner level	Outer level

TS system chassis 17 x 73 mm								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
12 (300)	4 pc(s).	—	—	11 (275)	—	9 (225)	8612.130	522
16 (400)	4 pc(s).	—	—	15 (375)	8612.040	13 (325)	8612.140	
20 (500)	4 pc(s).	—	—	19 (475)	8612.050	17 (425)	8612.150	
24 (600)	4 pc(s).	—	—	23 (575)	8612.060	21 (525)	8612.160	
32 (800)	4 pc(s).	—	—	31 (775)	8612.080	29 (725)	8612.180	
39 (1000)	4 pc(s).	—	—	38 (975)	8612.000	36 (925)	8612.100	
47 (1200)	4 pc(s).	—	—	46 (1175)	8612.020	44 (1125)	8612.120	

¹⁾ A = Rail mounting distance

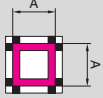
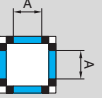
TS system chassis 23 x 73 mm								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
20 (500)	4 pc(s).	—	—	17 (425)	8612.550	—	—	523
24 (600)	4 pc(s).	—	—	21 (525)	8612.560	—	—	
32 (800)	4 pc(s).	—	—	29 (725)	8612.580	—	—	
39 (1000)	4 pc(s).	—	—	36 (925)	8612.500	—	—	
47 (1200)	4 pc(s).	—	—	44 (1125)	8612.520	—	—	

¹⁾ A = Rail mounting distance

TS punched section without mounting flange 45 x 88 mm								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
20 (500)	2 pc(s).	15 (375)	8612.650	15 (375)	8612.650	—	—	523
24 (600)	2 pc(s).	19 (475)	8612.660	19 (475)	8612.660	—	—	
32 (800)	2 pc(s).	27 (675)	8612.680	27 (675)	8612.680	—	—	

¹⁾ A = Rail mounting distance

TS/SE Configuration Examples with TS System Rails

	Installation in roof and base frames in the width/depth	Installation between vertical profiles in the width/depth	
		Inner level	Outer level
			

TS punched rail 25 x 38 mm (with snap-on nut M8)

For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
20 (500)	2 pc(s).	—	—	17 (435)	8612.750	—	—	524
24 (600)	2 pc(s).	—	—	21 (535)	8612.760	—	—	
32 (800)	2 pc(s).	—	—	29 (735)	8612.780	—	—	

¹⁾ A = Rail mounting distance

TS punched rail 18 x 38 mm

For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	4 pc(s).	13 (335)	8612.240	—	—	13 (325)	8612.240	525
20 (500)	4 pc(s).	17 (435)	8612.250	—	—	17 (425)	8612.250	
24 (600)	4 pc(s).	21 (535)	8612.260	—	—	21 (525)	8612.260	
32 (800)	4 pc(s).	29 (735)	8612.280	—	—	29 (725)	8612.280	

¹⁾ A = Rail mounting distance

Two TS punched rails 18 x 38 mm are included with the supply as an installation aid for enclosures with mounting plate. After installation of the mounting plate, the TS punched rail can be used as shown here.

TS support strips

For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	20 pc(s).	—	—	—	—	13 (325)	4694.000	525
20 (500)	20 pc(s).	—	—	—	—	17 (425)	4695.000	
24 (600)	20 pc(s).	—	—	—	—	21 (525)	4696.000	
32 (800)	20 pc(s).	—	—	—	—	29 (725)	4697.000	
16 (400)	20 pc(s).	—	—	15 (375)	4309.000	—	—	
20 (500)	20 pc(s).	—	—	19 (475)	4596.000	—	—	
24 (600)	20 pc(s).	—	—	23 (575)	8800.130	—	—	
—	20 pc(s).	—	—	27 (675)	4598.000	—	—	
32 (800)	20 pc(s).	—	—	31 (775)	4579.000	—	—	
—	20 pc(s).	—	—	34 (875)	4599.000	—	—	

¹⁾ A = Rail mounting distance

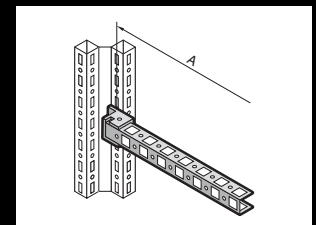
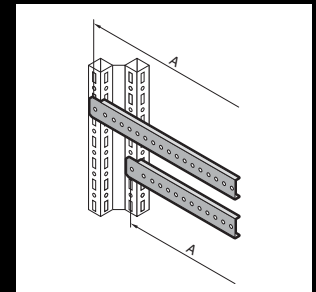
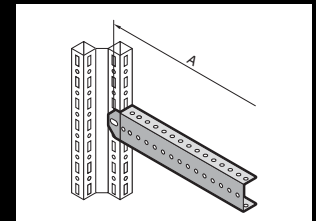
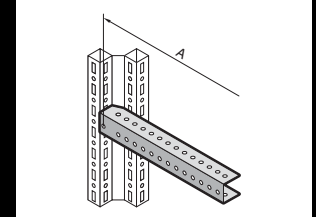
Alternatively, the TS support strip for the inner mounting level can also be used for mounting on the door.

PS punched rails 23 x 23 mm

(For installation options see TS/PS support bracket, angle bracket, mounting bracket)

For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	12 pc(s).	11 (275)	4169.000	11 (275)	4169.000	—	—	526
20 (500)	12 pc(s).	15 (375)	4170.000	15 (375)	4170.000	—	—	
24 (600)	12 pc(s).	19 (475)	4171.000	19 (475)	4171.000	—	—	
32 (800)	12 pc(s).	27 (675)	4172.000	27 (675)	4172.000	—	—	
39 (1000)	12 pc(s).	34 (875)	4173.000	34 (875)	4173.000	—	—	
47 (1200)	6 pc(s).	42 (1075)	4174.000	42 (1075)	4174.000	—	—	
55 (1400)	6 pc(s).	50 (1275)	4393.000	50 (1275)	4393.000	—	—	
63 (1600)	6 pc(s).	58 (1475)	4175.000	58 (1475)	4175.000	—	—	
71 (1800)	6 pc(s).	66 (1675)	4176.000	66 (1675)	4176.000	—	—	
79 (2000)	6 pc(s).	74 (1875)	4177.000	74 (1875)	4177.000	—	—	
87 (2200)	6 pc(s).	82 (2075)	4178.000	82 (2075)	4178.000	—	—	

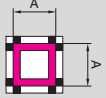
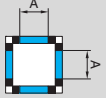
¹⁾ A = Rail mounting distance

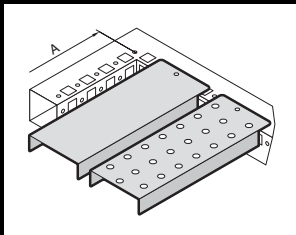
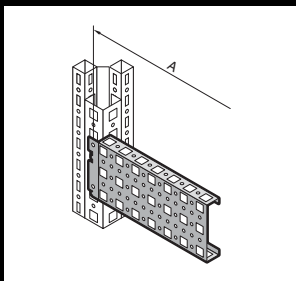
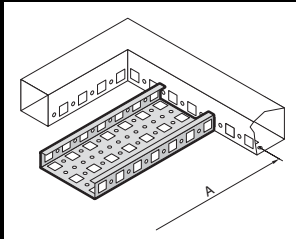
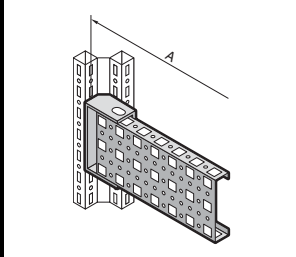


Interior Fittings

Rail systems

TS/SE Configuration Examples with TS System Rails

	Installation in roof and base frames in the width/depth	Installation between vertical profiles in the width/depth	
		Inner level	Outer level
			



PS punched section without mounting flange 23 x 73 mm (installation options with support bracket TS)								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	4 pc(s).	11 (275)	4374.000	11 (275)	4374.000	–	–	527
20 (500)	4 pc(s).	15 (375)	4375.000	15 (375)	4375.000	–	–	
24 (600)	4 pc(s).	19 (475)	4376.000	19 (475)	4376.000	–	–	
32 (800)	4 pc(s).	27 (675)	4377.000	27 (675)	4377.000	–	–	
39 (1000)	4 pc(s).	34 (875)	4382.000	34 (875)	4382.000	–	–	
47 (1200)	4 pc(s).	42 (1075)	4378.000	42 (1075)	4378.000	–	–	
71 (1800)	4 pc(s).	66 (1675)	4379.000	66 (1675)	4379.000	–	–	
79 (2000)	4 pc(s).	74 (1875)	4380.000	74 (1875)	4380.000	–	–	
87 (2200)	4 pc(s).	82 (2075)	4381.000	82 (2075)	4381.000	–	–	

¹⁾ A = Rail mounting distance

PS system chassis 23 x 73 mm (installation options with TS adapter rail for mounting on vertical TS enclosure section)								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	4 pc(s).	13 (335)	8800.640	–	8800.640	–	–	528
20 (500)	4 pc(s).	17 (435)	8800.650	–	8800.650	–	–	
24 (600)	4 pc(s).	21 (535)	4364.000	–	4364.000	–	–	
32 (800)	4 pc(s).	29 (735)	4365.000	–	4365.000	–	–	
39 (1000)	4 pc(s).	37 (935)	4373.000	–	4373.000	–	–	
47 (1200)	4 pc(s).	45 (1135)	4367.000	–	4367.000	–	–	

¹⁾ A = Rail mounting distance

Support rails, slotted								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	4 pc(s).	13 (335)	4394.000	—	—	—	—	529
20 (500)	2 pc(s).	17 (435)	4395.000	—	—	—	—	
24 (600)	2 pc(s).	21 (535)	4396.000	—	—	—	—	
32 (800)	2 pc(s).	29 (735)	4398.000	—	—	—	—	
Support rails, unslotted								
16 (400)	4 pc(s).	13 (335)	—	—	—	—	—	529
20 (500)	2 pc(s).	17 (435)	—	—	—	—	—	
24 (600)	2 pc(s).	21 (535)	4396.500	—	—	—	—	
32 (800)	2 pc(s).	29 (735)	4398.500	—	—	—	—	

¹⁾ A = Rail mounting distance

Alternatively, the slotted and unslotted support rails can also be mounted on the vertical TS enclosure section using the snap-on nut M8, the adapter rail or the TS punched rail 25 x 38 mm.

Rails for Interior Fitting

for AE

Mounted in the housing, no machining required.
Suitable for all-round mounting on the sides, base and roof areas.

Variable, with 2 rows of system punchings, provides additional mounting space for, e.g.:

- TS system chassis
- Enclosure lights
- Door-operated switch
- Door stay
- Cable conduit holder

Advantages:

- Only one screw needed to secure the rail in the housing
- Larger assembly space than with the previous rail, thanks to a separate adapter for the door-operated switch (in the scope of supply)
- Compatibility with TS 8 system accessories
- Housing protection category is retained (no machining required)
- Automatic equipotential bonding
- Can be retrofitted in spite of built-in mounting plate. Installation using flange (gland) plates possible

Material:

- Carbon steel

Surface finish:

- Zinc-plated

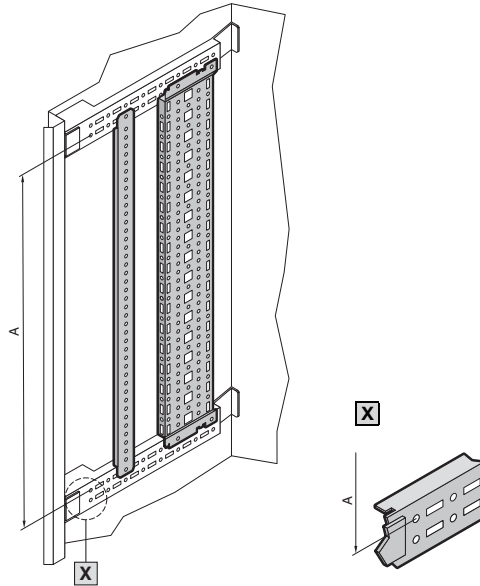
Note:

Other mounting options:

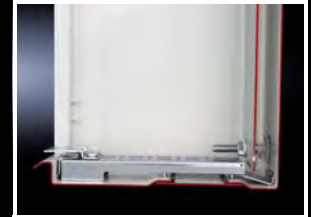
- Mounting plates, locatable, 8612.400, see page 531
- Mounting plates, screw-fastened, large, 8612.410, see page 531
- Mounting plates, screw-fastened, small, 4532.000, see page 531
- Mounting bracket, 4597.000, see page 531

For housing depth inches (mm)	Packs of	Model No.
8 (210)	4 pc(s).	2383.210
10 (250)	4 pc(s).	2383.250
12 (300)	4 pc(s).	2383.300
14 (350)	4 pc(s).	2383.350

Configuration examples:



A = rail spacing



Rails for Interior Fitting

for CM, TP

Mounted on the existing threaded bolts.
With TS system punchings on three sides.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Height inches (mm)		Width inches (mm)		Packs of	Model No.
CM	TP ²⁾	CM	TP ¹⁾		
–	27 (675)	24 (600)	24 (600)	4 pc(s).	5001.050
32 (800)	38 (960)	32 (800)	32 (800)	4 pc(s).	5001.051
39 (1000)	–	39 (1000)	39 (1000)	4 pc(s).	5001.052
47 (1200)	–	47 (1200)	47 (1200)	4 pc(s).	5001.053
55 (1400)	–	–	63 (1600)	4 pc(s).	5001.054

¹⁾ Only for TP console and desk unit (cover and rear panel/base), one-piece console in cover

²⁾ Only with TP pedestal, one-piece console

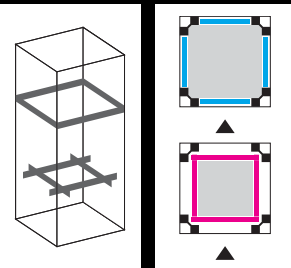
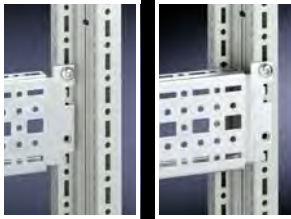
Configuration examples:

See page 515



Interior Fittings

Rail Systems



TS system chassis 17 x 73 mm

Variable, with 5 rows of holes for universal skeleton structures or partial assembly. Simply locate into the TS punchings and secure.

Installation options:

- On the vertical TS enclosure section
 - On the outer mounting level, all-round, at the same height
 - On the inner mounting level, all-round, height-offset
- In the tubular door frame for TS, SE and PC
- For SE, may additionally be mounted on the top horizontal section in the depth
- In CM and TP via rail for interior fitting
 - In the width, for inner mounting level
 - In the depth, for outer mounting level

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws



Also required:

- For installation in CM, TP:
Rail for interior fitting, see page 521



Accessories:

- Screws, see page 539
- Cable ties for quick mounting 2597.000, see page 576

For the outer mounting level

For Enclosure width/depth inches (mm)	Packs of	Model No.
12 (300)	4 pc(s).	8612.130
16 (400)	4 pc(s).	8612.140
20 (500)	4 pc(s).	8612.150
24 (600)	4 pc(s).	8612.160
32 (800)	4 pc(s).	8612.180
39 (1000)	4 pc(s).	8612.100
47 (1200)	4 pc(s).	8612.120

For the inner mounting level or for tubular door frames

For door width (for tubular door frames) inches (mm)	For enclosure width/depth (for inner mounting level) inches (mm)	Length inches (mm)	Packs of	Model No.
20 (500)	16 (400)	15 (390)	4 pc(s).	8612.040
24 (600)	20 (500)	19 (490)	4 pc(s).	8612.050
–	24 (600)	23 (590)	4 pc(s).	8612.060
32 (800)	–	27 (690)	4 pc(s).	8612.070
35 (900)	32 (800)	31 (790)	4 pc(s).	8612.080
39 (1000)	–	35 (890)	4 pc(s).	8612.090
–	39 (1000)	39 (990)	4 pc(s).	8612.000
–	47 (1200)	47 (1190)	4 pc(s).	8612.020

Configuration examples:

See from page 514



Attachment TS

for system chassis, 17 x 73 mm

Advantages:

- For attaching the TS system chassis where installed equipment, such as mounting plates, block access to the screw fastening
- May also be screw-fastened onto the system chassis or enclosure frame and used as a holder for contact hazard protection covers or main switch trim panels

Packs of	Model No.
12 pc(s).	8612.010

Material:

- Carbon steel

Surface finish:

- Zinc-plated

TS system chassis 23 x 73 mm

The alternative to the TS 17 x 73 mm system chassis, see page 522, with punchings for captive nuts/speed nuts instead of slotted holes top and bottom. Simply locate and secure.

Installation options:

- On the vertical TS, SE enclosure section

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For the inner mounting level

For Enclosure width/depth inches (mm)	Packs of	Model No.
20 (500)	4 pc(s).	8612.550
24 (600)	4 pc(s).	8612.560
32 (800)	4 pc(s).	8612.580
39 (1000)	4 pc(s).	8612.500
47 (1200)	4 pc(s).	8612.520

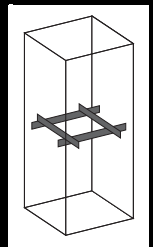
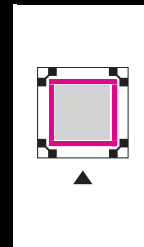


Accessories:

- Screws, see page 539
- Speed nuts, captive nuts, see page 538

Configuration examples:

See page 514



TS punched section without mounting flange 45 x 88 mm

Mounted directly on internal surfaces (e.g. roof) to support heavy assemblies. Mounted on the side or rear, the enclosure can then be screw-fastened securely to the machine. The double profile with 11 rows of holes provides many additional options for interior configuration.

Installation options:

- On the vertical and horizontal TS, SE enclosure section

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For the inner mounting level

For Enclosure width/depth inches (mm)	Packs of	Model No.
20 (500)	2 pc(s).	8612.650
24 (600)	2 pc(s).	8612.660
32 (800)	2 pc(s).	8612.680

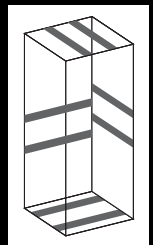
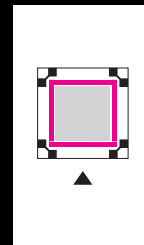


Accessories:

- Screws, see page 539
- Speed nuts, captive nuts, see page 538

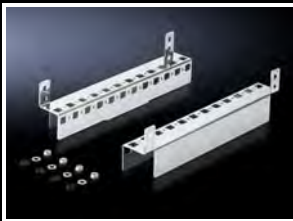
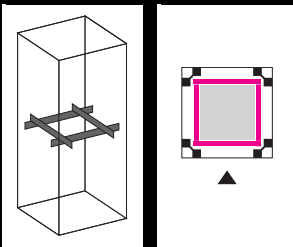
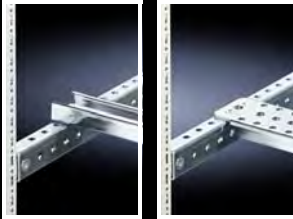
Configuration examples:

See page 514



Interior Fittings

Rail Systems



TS Punched Rail 25 x 38 mm

For heavy installed equipment, with mounting holes.

Installation options:

- On the vertical TS, SE enclosure section

With 9 mm round holes all round on a 25 mm hole pattern, for configuration of

- Support rails, see page 530
- System support rails, see page 529
- C rails 30/15, see page 528
- Cable clamping rails (angle profile), see page 574
- Own assemblies

Material:

- Carbon steel, 3.0 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For Enclosure width/depth inches (mm)	Packs of	Model No.
20 (500)	2 pc(s).	8612.750
24 (600)	2 pc(s).	8612.760
32 (800)	2 pc(s).	8612.780



Also required:

- Snap-on nut M8, 8800.808, see page 533

Note:

- In conjunction with the snap-on nut, particularly well-suited for dynamic connections

Configuration examples:

See page 514

Base Configuration Rail

for CM, TP

Mounted in the housing depth on the available threaded bolts, no machining required. TS system punchings on two sides. Provides additional mounting options.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure depth inches (mm)	Packs of	Model No.
16 (400)	2 pc(s).	5001.370
12 (300)	2 pc(s).	5001.371

TS Punched Rail 18 x 38 mm

Simply locate and secure with a screw. Location system makes installation and removal easy. Only needs to be secured on one side, but can be secured on both sides if necessary.

Installation options:

- On the vertical TS, SE enclosure section
 - On the outer mounting level
- On the horizontal TS, SE enclosure section
- On the base configuration rail for CM

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Note:

- In enclosures with a mounting plate, two punched rails are already included in the scope of supply

For Enclosure width/depth inches (mm)	Packs of	Model No.
16 (400)	4 pc(s).	8612.240
20 (500)	4 pc(s).	8612.250
24 (600)	4 pc(s).	8612.260
32 (800)	4 pc(s).	8612.280

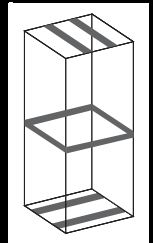
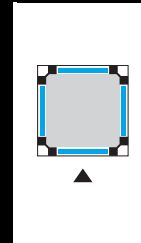


Accessories:

- Screws, see page 539
- Cable ties for quick assembly 2597.000, see page 576
- Cable clamps, see page 575

Configuration examples:

See from page 514



TS support strips

Installation options:

- On the vertical and horizontal TS, SE enclosure section
 - On the outer mounting level, all-round, at the same height
 - On the inner mounting level, all-round, height-offset
- On the TS, SE tubular door frame
- On the CM, TP perforated door strip

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For the outer mounting level

For Enclosure width/depth inches (mm)	Length inches (mm)	Packs of	Model No.
16 (400)	13 (340)	20 pc(s).	4694.000
20 (500)	17 (440)	20 pc(s).	4695.000
24 (600)	21 (540)	20 pc(s).	4696.000
32 (800)	29 (740)	20 pc(s).	4697.000

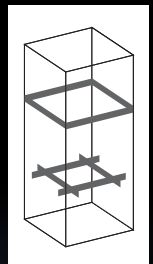
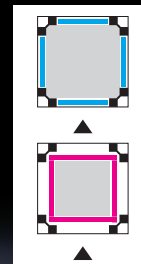


Accessories:

- Screws, see page 539
- Cable ties for quick assembly 2597.000, see page 576

Configuration examples:

See from page 514

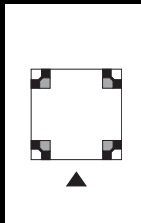


For the inner mounting level and for mounting on doors

For enclosure width/depth inches (mm)	For door width inches (mm)	Length inches (mm)	Packs of	Model No.
–	16 (400)	11 (290)	20 pc(s).	4594.000
16 (400)	20 (500)	15 (390)	20 pc(s).	4309.000
20 (500)	24 (600)	19 (490)	20 pc(s).	4596.000
24 (600)	–	23 (590)	20 pc(s).	8800.130
–	32 (800)	27 (690)	20 pc(s).	4598.000
32 (800)	35 (900)	31 (790)	20 pc(s).	4579.000
–	39 (1000)	35 (890)	20 pc(s).	4599.000

Interior Fittings

Rail Systems



TS Assembly Block

Installation in the vertical TS, SE enclosure sections to mount individual PS-compatible components.

Material:

- Die-cast zinc

Supply includes:

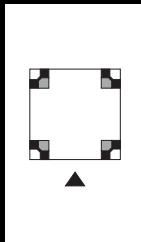
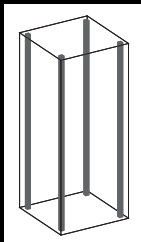
- Assembly screws

Packs of	Model No.
4 pc(s).	8800.310



Possible alternative:

- Snap-on nut, see page 533



Adapter Rail

for PS compatibility

Installation in the vertical TS, SE enclosure sections (over the full enclosure height or only in places). With SE, mounting is additionally possible on the horizontal section at the top, in the width (must be cut to the correct length individually, depending on the width of the enclosure), to create compatibility with:

- PS punched rail 23 x 23 mm
- PS punched section without mounting flange 23 x 73 mm
- PS system chassis 23 x 73 mm

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For Enclosure height inches (mm)	Packs of	Model No.
71 (1800)	4 pc(s).	8800.380
79 (2000)	4 pc(s).	8800.300
87 (2200)	4 pc(s).	8800.320



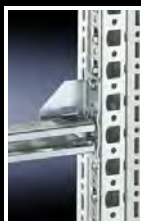
Accessories:

- Screws, see page 539



Possible alternative:

- Snap-on nut, see page 533



PS Punched Rails 23 x 23 mm

for TS, SE

Installation options:

- On the vertical enclosure section
 - Directly using TS support brackets
 - Via adapter rail for PS compatibility, in conjunction with angle brackets, mounting brackets or PS support brackets
- On the horizontal enclosure section
 - Directly via angle brackets, mounting brackets or PS support brackets

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Length inches (mm)	For HWD inches (mm)	Packs of	Model No.
12 (295)	16 (400)	12 pc(s).	4169.000
16 (395)	20 (500)	12 pc(s).	4170.000
19 (495)	24 (600)	12 pc(s).	4171.000
27 (695)	32 (800)	12 pc(s).	4172.000
35 (895)	39 (1000)	12 pc(s).	4173.000
43 (1095)	47 (1200)	6 pc(s).	4174.000
51 (1295)	55 (1400)	6 pc(s).	4393.000
59 (1495)	63 (1600)	6 pc(s).	4175.000
67 (1695)	71 (1800)	6 pc(s).	4176.000
75 (1895)	79 (2000)	6 pc(s).	4177.000
82 (2095)	87 (2200)	6 pc(s).	4178.000



Also required:

- U nuts, see page 538
- TS/PS mounting brackets, see page 534 or
- Angle brackets, TS/PS support brackets, see page 535



Accessories:

- Cable attachment, see page 576
- Screws, see page 539
- Cable ties for quick assembly 2597.000, see page 576

Configuration examples:

See from page 514

Punched Rail 23 x 23 mm

for Flex-Block

Tool-free installation on two levels using a plug-in system within the depth of the Flex-Block. To install cable clamping rails.

Installation options:

- In the width and depth

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 12 punched rails
- Assembly components for mounting

Length inches (mm)	For Width/depth inches (mm)	Packs of	Model No.
10 (245)	16 (400)	12 pc(s).	4169.500
14 (345)	20 (500)	12 pc(s).	4170.500
18 (445)	24 (600)	12 pc(s).	4171.500
25 (645)	32 (800)	12 pc(s).	4172.500



Accessories:

- Cable clamping rail (4193.000, etc.), see page 574



PS Punched Section without Mounting Flange 23 x 73 mm

for TS, SE

Installation options:

- On the vertical enclosure section
 - Directly using TS support brackets
 - Using adapter rail for PS compatibility, combined with PS support brackets
- On the horizontal enclosure section
 - Directly using PS support brackets

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Length inches (mm)	For HWD inches (mm)	Packs of	Model No.
12 (295)	16 (400)	4 pc(s).	4374.000
16 (395)	20 (500)	4 pc(s).	4375.000
19 (495)	24 (600)	4 pc(s).	4376.000
27 (695)	32 (800)	4 pc(s).	4377.000
35 (895)	39 (1000)	4 pc(s).	4382.000
43 (1095)	47 (1200)	4 pc(s).	4378.000
67 (1695)	71 (1800)	4 pc(s).	4379.000
75 (1895)	79 (2000)	4 pc(s).	4380.000
82 (2095)	87 (2200)	4 pc(s).	4381.000



Also required:

- PS/TS support brackets, see page 535

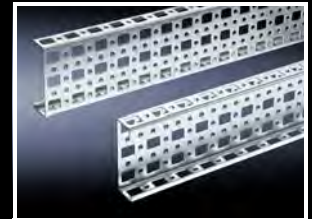


Accessories:

- Screws, see page 539
- Cable ties for quick assembly 2597.000, see page 576
- U nuts, see page 538

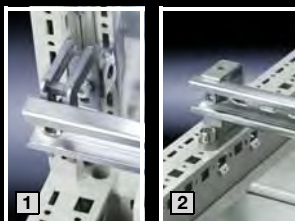
Configuration examples:

See page 514



Interior Fittings

Rail Systems



PS System Chassis 23 x 73 mm for TS, SE

Variable, with 5 rows of holes for universal skeleton structures or partial assembly. Simply locate into the system punchings and secure.

Installation options:

- On the vertical TS enclosure section
 - Using adapter rail for PS compatibility
- On the horizontal TS enclosure section
- In the case of SE, may additionally be fitted to the horizontal section at the bottom (width/depth) and top (width)

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Installation in enclosure width/depth TS inches (mm)	Packs of	Model No.
16 (400)	4 pc(s).	8800.640
20 (500)	4 pc(s).	8800.650
24 (600)	4 pc(s).	4364.000
32 (800)	4 pc(s).	4365.000
39 (1000)	4 pc(s).	4373.000
47 (1200)	4 pc(s).	4367.000



Also required:

- Adapter rail for PS compatibility (for mounting on vertical TS, SE enclosure section), see page 526

Configuration examples:

See page 514

C rails 30/15 to EN 60 715 for TS, SE

Installation options:

- On the vertical TS, SE enclosure section
 - Using snap-on nut 8800.808 (Fig. 1)
 - Using adapter rail for PS compatibility
 - On the horizontal TS enclosure section (Fig. 2)
 - With SE, also on the horizontal section
 - In the width, at the bottom/top
 - In the depth, at the bottom (without mounting plate)
 - In the depth, at the top
- Using snap-on nuts 8800.808 (Fig. 1)
- On the base configuration rail for CM

Material:

- Carbon steel

Surface finish:

- Zinc-plated

For enclosure width/depth inches (mm)	Length inches (mm)	Packs of	Model No.
20 (500)	18 (455)	6 pc(s).	4943.000
24 (600)	22 (555)	6 pc(s).	4944.000
32 (800)	30 (755)	6 pc(s).	4945.000
39 (1000)	38 (955)	6 pc(s).	4946.000
45 (1200)	46 (1155)	6 pc(s).	4947.000



Accessories:

- Cable clamps, see page 575
- Bracket/spacer, see page 536
- Quick-assembly block, see page 536
- Snap-on nut M8, 8800.808, see page 533
- Adapter rail, see page 526



Possible alternative:

- Rail for EMC shielding bracket and strain relief, see page 551

C Rails

for TS, SE

For direct external mounting between the horizontal or vertical TS, SE enclosure sections. Because the attachment piece is designed for universal use, the C rails may optionally be attached to the inner or outer level of the TS 8 frame.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure width/depth inches (mm)	Length inches (mm)	Packs of	Model No.
24 (600)	20 (498)	4 pc(s).	7828.060
32 (800)	27 (698)	4 pc(s).	7828.080
39 (1000)	35 (898)	4 pc(s).	7828.100



Accessories:

- Cable clamps, see page 575



System Support Rails

For heavy installed equipment such as transformers. T-head screw and slot in the support rail accommodate a wide range of mounting dimensions.

Installation options:

- On the vertical TS, SE enclosure section
 - Using snap-on nut 8800.808 (Fig. 1)
 - Using adapter rail for PS compatibility
 - Offset in the height, via TS punched rail 25 x 38 mm (Fig. 2)
- On the horizontal TS enclosure section
 - In the width
 - In the depth (without mounting plate)
- With SE, also on the horizontal section
 - In the width (top/bottom)
 - In the depth, at the bottom (without mounting plate)
 - In the depth, at the top (without mounting plate)
- Using snap-on nuts 8800.808 (Fig. 1)
- On the base configuration rail for CM

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 2 system support rails (45 x 25 mm)
- 4 T-head screws M12 x 60 mm
- Assembly components

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	2 pc(s).	4361.000
32 (800)	2 pc(s).	4362.000
39 (1000)	2 pc(s).	4347.000
47 (1200)	2 pc(s).	4363.000



Accessories:

- Width divider, e.g. for installation of 2 system support rails (for 600 mm width) in 1200 mm wide enclosures, see page 438
- Snap-on nut M8, 8800.808, see page 533
- Adapter rail, see page 526
- TS punched rail 25 x 38 mm, see page 524



Support Rails

for TS, SE, CM

For heavy installed equipment. Particularly suitable for the installation of post isolators.

Installation options:

- On the vertical TS, SE enclosure section
 - Using snap-on nut 8800.808 (Fig. 1)
 - Using adapter rail for PS compatibility
 - Offset in the height, via TS punched rail 25 x 38 mm (Fig. 2)
- On the horizontal TS enclosure section
 - In the width
 - In the depth
- With SE, also on the horizontal section
 - In the width
 - In the depth, at the top
- Via snap-on nut 8800.808
- On the base configuration rail for CM

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure width/depth inches (mm)	Packs of	Model No.	Model No.
		slotted	unslotted
16 (400)	4 pc(s).	4394.000	–
20 (500)	4 pc(s).	4395.000	–
24 (600)	4 pc(s).	4396.000	4396.500
32 (800)	4 pc(s).	4398.000	4398.500



Accessories:

- Snap-on nut M8, 8800.808, see page 533
- Adapter rail, see page 526
- TS punched rail 25 x 38 mm, see page 524

Configuration examples:

See from page 514



Interior Fittings

Rail Systems



Support Rail 65 x 42 mm for TS, SE

Advantages:

- For heavy assemblies up to 5000 N per support rail

Permissible static load:

- 10000 N per enclosure

Material:

- Steel

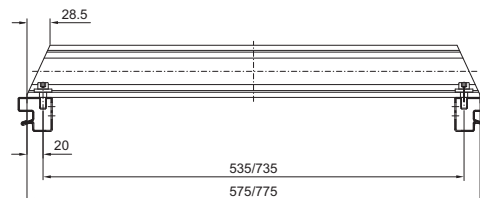
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	2 pc(s).	8612.960
32 (800)	2 pc(s).	8612.980



Support rails TS 35/15 to EN 60 715 for TS, SE

- Mounted on the TS vertical profile using
- Snap-on nut M8, 8800.808, see page 533
 - Assembly block, see page 526 or
 - Adapter rail, see page 526

For enclosure width/depth inches (mm)	Support rails length inches (mm)	Packs of	Model No.
20 (500)	18 (455)	6 pc(s).	4933.000
24 (600)	22 (555)	6 pc(s).	4934.000
32 (800)	30 (755)	6 pc(s).	4935.000
45 (1200)	46 (1155)	6 pc(s).	4937.000



Support rails TS 35/7.5 and TS 35/15

- to EN 60 715 for KL, KL-HD, AE
Length matched to the housing width.

For housing width inches (mm)	Support rails length inches (mm)	Version	Packs of	Model No.
6 (150)	5 (137)	TS 35/7.5	10 pc(s).	2314.000
8 (200)	7 (187)		10 pc(s).	2315.000
12 (300)	11 (287)		10 pc(s).	2316.000
16 (400)	15 (387)		10 pc(s).	2317.000
20 (500)	19 (487)	TS 35/15	10 pc(s).	2318.000
24 (600)	23 (587)		10 pc(s).	2319.000

Support Rails

- to EN 60 715
Standard length 2 m

Version	Length	Packs of	Model No.
TS 35/15	79" (2 m)	6 pc(s).	2313.150
TS 35/7.5	79" (2 m)	6 pc(s).	2313.750



Mounting Clip

for support rails

For fast and secure attachment of

- Cable ducts
- Mounting plates
- Profile rails

On support rail TS 35/7.5 and TS 35/15 to EN 60 715.

Simply fit the mounting clip to the part to be installed and then clip onto the support rail.

Packs of	Model No.
30 pc(s).	2309.000

Mounting plates

Locatable

- on
- Vertical TS, SE enclosure section
- TS system chassis 17 x 73 mm

Material:

- Carbon steel

Surface finish:

- Zinc-plated

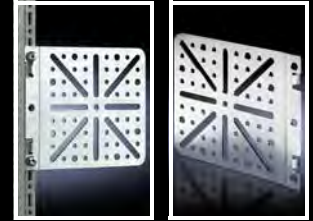
Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	8612.400

Technical details:

Available on the Internet



Mounting plates

Screw-fastened, large

On all enclosures and mounting parts with system punchings on a 25 mm hole pattern.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

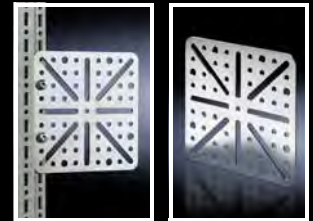
Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	8612.410

Technical details:

Available on the Internet



Mounting plates

Screw-fastened, small

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	4532.000

Technical details:

Available on the Internet



Mounting bracket

Can be screw-fastened to all enclosures and mounting parts with system punchings on a 25 mm hole pattern.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	4597.000



Accessories:

- Screws, see page 539
- Cable ties for quick assembly 2597.000, see page 576

Technical details:

Available on the Internet



Interior Fittings

Rail Systems



Mounting bracket

for interior fitting

For installation of system chassis and support strips in Comfort Panel, horizontal/vertical, from an installation depth of 74 mm

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	6205.100

Technical details:

Available on the Internet

		Comfort Panel	Page
		Front panel width = 19" (482.6 mm)	
System Chassis	Horizontal	8612.150	522
	Vertical		
Support strips	Horizontal	4695.000	525
	Vertical		

Snap-On Nut TS

Metric thread for vertical TS, SE enclosure section. To mount, insert and clip into slotted holes. The snap-on nut is then secured in place. When the screw is tightened, it is securely braced against the profile, and equipotential bonding is automatically created.

Installation options:

- On the vertical TS, SE enclosure section and on the horizontal SE enclosure section (top, in the width)
 - With M6 or M8 metric thread
 - An alternative to sheet metal screws
 - Particularly well-suited for dynamically-loaded connections

Material:

- Precision-cast stainless steel

Accessories for interior fitting

- 1 Support rails, see page 529
- 2 Cable clamping rails, see page 574
- 3 C rails 30/15, see page 528
- 4 System support rails, see page 529
- 5 TS punched rail 25 x 38 mm, see page 524

Thread	Packs of	Model No.
M6	20 pc(s).	8800.806
M8	20 pc(s).	8800.808



Also required:

- Multi-tooth screw M6 x 12 or M8 x 12, see page 539



Adapter Bracket TS

For mounting

- System lights
- Cable ducts

On the vertical TS enclosure section and on the horizontal SE enclosure section (top, in the width)

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Packs of	Model No.
6 pc(s).	8800.360



Interior Fittings

Assembly Components



Mounting Bracket TS

Offers variable mounting options for 23 x 23 mm punched rail, e.g. to support external surfaces or create an additional internal level.

Material:

- Die-cast zinc

Supply includes:

- 24 sheet metal screws 5.5 x 13 mm.

Packs of	Model No.
24 pc(s).	8800.370



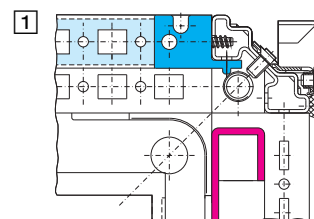
Accessories:

- U nuts (recommended: M6), see page 538.

Installation options:

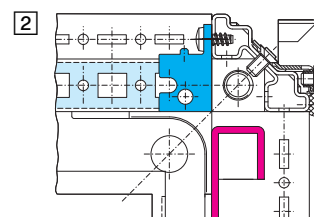
- On the vertical TS, SE enclosure section
 - flush with the outer edge of the enclosure or
 - flush with the enclosure clearance width

- 1 Support for the external surfaces with two mounting options:
- Without mounting plate (photo)
 - With mounting plate (drawing)

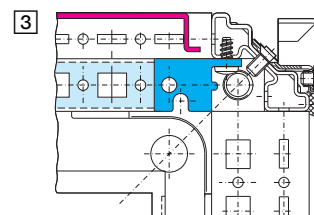


Two expansion options for the inner mounting level:

- 2 When no divider panel is mounted



- 3 When a divider panel is mounted, with or without mounting plate in forward position



Mounting Bracket PS

For variable attachment of 23 x 23 mm punched rails.

Installation options:

- Optionally flush with
 - outer enclosure edge or
 - enclosure clearance width
- On the vertical TS, SE enclosure section using
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Material:

- Die-cast zinc

Supply includes:

- 1 set =
 - 1 mounting bracket
 - 1 screw M6 x 12 mm,
 - 1 captive nut M6

Packs of	Model No.
24 set(s)	4182.000



Also required:

- U nuts (recommended: M6), see page 538
- Multi-tooth screws M6 x 12 mm, see page 539

Assembly Components

Angle Bracket PS

For quick attachment of 23 x 23 mm punched rails.

Installation options:

- On the vertical TS, SE enclosure section using
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 1 set =
 - 1 angle bracket, left
 - 1 angle bracket, right
 - 2 sheet metal screws 5.5 x 13 mm

Packs of	Model No.
12 set(s)	4181.000



Also required:

- U nuts (recommended: M6), see page 538
- Multi-tooth screws M6 x 12 mm, see page 539



Support Bracket TS

For attaching:

- Punched section without mounting flange
 - 23 x 73 mm, or
- Punched rails 23 x 23 mm

Installation options:

- On the vertical TS, SE enclosure section
 - in 25 mm hole pattern
 - in 2 mm increments
- On the horizontal SE enclosure section, in the width, top

Material:

- Die-cast zinc

Supply includes:

- 1 set =
 - 1 support bracket
 - 1 stay
 - 3 sheet metal screws 5.5 x 13 mm

Packs of	Model No.
6 set(s)	8800.330



Also required:

- U nuts (recommended: M6), see page 538
- Multi-tooth screws M6 x 12 mm, see page 539



Support Bracket PS

For attaching:

- Punched section without mounting flange
 - 23 x 73 mm, or
- Punched rails 23 x 23 mm

Installation options:

- On the vertical TS enclosure section using
 - Snap-on nut 8800.806, see page 533 or
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Material:

- Die-cast zinc

Supply includes:

- 1 set =
 - 1 support bracket
 - 2 countersunk screws
 - 2 serrated washers

Packs of	Model No.
24 set(s)	4183.000



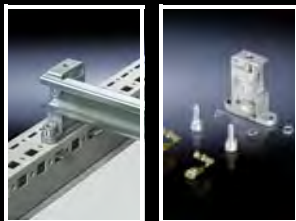
Also required:

- U nuts (recommended: M6), see page 538
- Multi-tooth screws M6 x 12 mm, see page 539
- Adapter rail for PS compatibility (for mounting on vertical enclosure section), see page 526



Interior Fittings

Assembly Components



Bracket/Spacer

For the attachment of C rails, support profiles or cable clamping rails (angle profile). On the sides, to accommodate square sections or tubes (Ø 20 mm). Fastening points with M8 thread.

Installation options:

- On the vertical TS, SE enclosure section using
 - Snap-on nut 8800.808, see page 533
 - or
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Packs of	Model No.
6 set(s)	4199.000

Material:

- Die-cast zinc

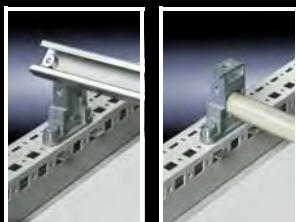
Supply includes:

- 1 set =
 - 1 bracket / spacer
 - 2 screws M8 x 16 mm
 - 2 spring lock washers
 - 2 captive nuts M8
 - 2 serrated washers
 - 2 sheet metal screws



Accessories:

- Angle piece 4134.000, see page 536



Quick-Assembly Block

For a variety of configuration options.

Installation options:

- On the vertical TS, SE enclosure section using
 - Snap-on nut 8800.808, see page 533
 - or
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Packs of	Model No.
12 pc(s).	4133.000

Material:

- Die-cast zinc

Supply includes:

- 12 quick-assembly blocks
- 12 speed nuts M8
- 24 screws M8 x 12 mm
- 24 square nuts M8



Angle Piece

For the configuration of punched rails and mounting surfaces with a 45° slope.

Installation options:

- On the vertical TS, SE enclosure section using
 - Snap-on nut 8800.806, see page 533
 - or
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Packs of	Model No.
12 set(s)	4134.000

Material:

- Angle pieces: Die-cast zinc
- Insulating pieces: Plastic

Supply includes:

- 1 set =
 - 1 angle piece
 - 1 insulating piece
 - 1 insulating screw
 - 2 assembly screws
 - 1 speed nut M6

Interior Fittings

Assembly Components

Universal Bracket

For the installation of

- Enclosure lights in
 - AE compact enclosures
- Door-operated switches in
 - AE compact enclosures
 - TP TopConsole system
- Cable conduit holders 2593.000 and 2591.000 in
 - AE compact enclosures
- Support rails for terminals in
 - Command panels and command panel housings

Assembly screws are concealed when the door is closed. Existing holes for mounting blocks or hinges may be used with AE.

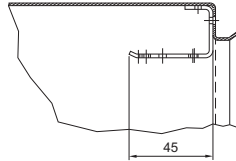
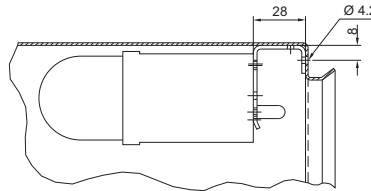
Material:

- Carbon steel, zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
6 pc(s).	2373.000



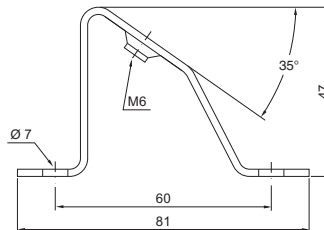
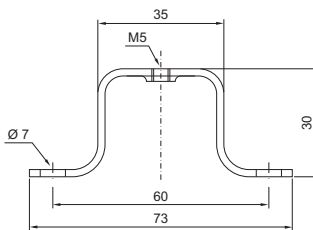
Rail Mounting Bracket

for individual rail mounting.

Material:

- Carbon steel, zinc-plated

Rail Mounting Bracket	Packs of	Model No.
Flat	20 pc(s).	2365.000
Inclined	20 pc(s).	2366.000



Mounting Block

for AE

As an accessory for additional interior fittings, e.g. to fit cable ties, PS punched rails, top hat rails and C rails (e.g. for a second mounting level).

Supply includes:

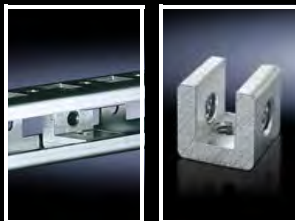
- Assembly components

Packs of	Model No.
20 pc(s).	2574.000



Interior Fittings

Assembly Components



U Nuts

for

- Punched rail 23 x 23 mm
- Punched section without mounting flange 23 x 73 mm
- Punched section without mounting flange 45 x 88 mm
- System chassis 23 x 73 mm

For mounting punched rails and punched sections without mounting flange on angle brackets, mounting brackets and support brackets, we recommend U nuts with M6 thread, 4179.000.

Thread	Packs of	Model No.
M4	20 pc(s).	4119.000
M5	20 pc(s).	4157.000
M6	20 pc(s).	4179.000
M8	20 pc(s).	4180.000



Accessories:

- Multi-tooth screws M6 x 12 mm, for 4179.000, see page 539

Captive Nuts/Threaded Blocks

Installation options:

On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm as for example on

- TS, SE enclosure section
 - Vertical, via adapter rail for PS compatibility
 - TS horizontal, direct
- SE horizontal bottom, direct
- SE horizontal top (in the depth only), direct
- Punched rails 23 x 23 mm
- Punched section without mounting flange 23 x 73 mm
- Punched section without mounting flange 45 x 88 mm
- System chassis 23 x 73 mm



Possible alternative:

- On the vertical TS enclosure section TS snap-on nut, see page 533



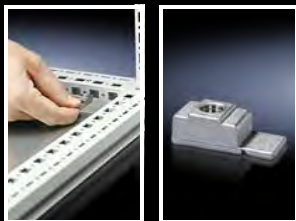
Captive nut

The compression spring designed as an insertion aid ensures reliable mechanical and electrical connection in the hole profile.

Thread	Packs of	Model No.
M5	50 pc(s).	4166.000
M6	50 pc(s).	4164.000
M8	50 pc(s).	4165.000

Threaded blocks

With snap-off insertion aid, made from die-cast zinc.



Thread	Packs of	Model No.
M6	50 pc(s).	4162.000
M8	50 pc(s).	4163.000

Captive nut

The nuts are inserted from the same side as screw-fastening takes place. This allows fastening points at the same height and width across corners.

The spring retainer also provides for electrical connection in the system punchings.



Thread	Packs of	Model No.
M6	50 pc(s).	8800.340
M8	50 pc(s).	8800.350

Spring Nut M5

For Comfort Panel from an installation depth of 74 mm. The spring ensures reliable protection from unintentional displacement.

Further interior fitting, e.g. with

- Mounting bracket 4597.000 (see page 531) or
- Mounting bracket for interior fitting 6205.100 (see page 532)

Material:

- Steel, zinc-plated

Packs of	Model No.
50 pc(s).	6108.000



Threaded Inserts M6

for KS

To secure installed equipment to the molded bosses in the door and in the rear housing panel.
Screw length available for insertion: 8 mm.

Packs of	Model No.
20 pc(s).	1482.000



Multi-tooth screws

M6 x 12 suitable for:

- Snap-on nuts (8800.806)
- U nuts (4179.000)
- Captive nuts (4164.000)
- Threaded blocks (4162.000)

M8 x 12 suitable for:

- Snap-on nuts (8800.808)

Multi-tooth drive for optimum transmission of torques, extended tool life and increased safety and reliability when tightening and loosening screw connections.

Type of screw	Dimensions mm	Packs of	Model No.
Multi-tooth screws	M6 x 12 M8 x 12	300 pc(s). 300 pc(s).	2504.500 2504.800
Multi-tooth sheet metal screws	5.5 x 13	300 pc(s).	2486.500
Multi-tooth sheet metal screws for stainless steel	5 x 13	300 pc(s).	2486.300
Self-tapping screws:			
■ Hex screws	M5 x 10	500 pc(s).	2504.000
■ Posidrive raised countersunk screws	M5 x 12	500 pc(s).	2488.000
■ Pan-head screws, posidrive	M5 x 12	500 pc(s).	2489.000
■ Pan-head screws, multi-tooth	M5 x 12	500 pc(s).	2489.500
Self-tapping screws	ST 4.8 x 16	300 pc(s).	2487.000

Multi-tooth sheet metal screws

For Ø 4.5 mm round holes in the enclosure profile, punched rails and punched section without mounting flange.

Self-tapping screws

For Ø 4.5 mm round holes in the enclosure profile, punched rails and punched section without mounting flange.

Self-tapping screws

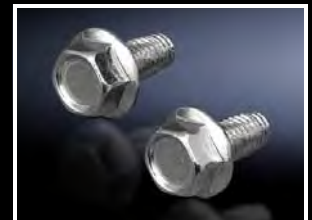
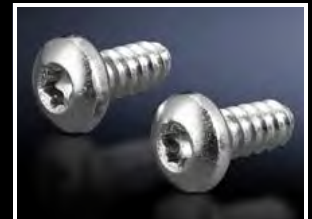
Mark, drill and tighten in a single operation using electric or pneumatic tools.

For plate thickness: 0.8 – 3 mm

Length: 16 mm

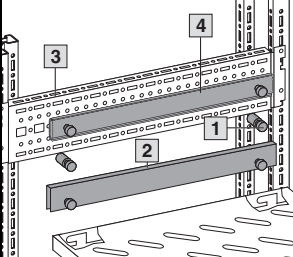
Useful length: 9.5 mm

Width across flats: 8 mm

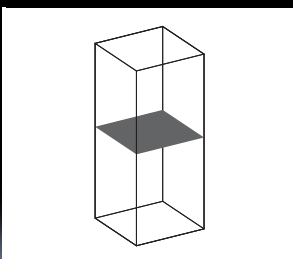
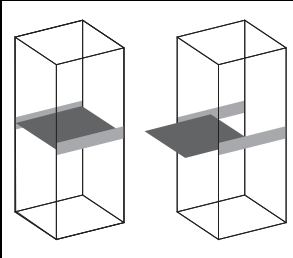


Interior Fittings

Component Shelves for Frame Attachment



- 1 Fastening Bolts
- 2 Mounting Rails
- 3 Installation Kit
- 4 Telescopic Rails



Component Shelf for Frame Attachment

Enclosure width 600 and 800 mm for TS and for upgrading existing DK-TS applications

For installation in enclosures without 19" (482.6 mm) fixture.

Max. depth of component shelves =
Enclosure depth - 100 mm

Technical specifications:

- Fastening bolts or mounting rails may be installed on a 25 mm hole pattern in the enclosure depth
- Mounting hole for handles provided
- Component shelf, slotted

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Assembly components

Enclosure width 24" (600 mm)

Load capacity lb (kg) (Surface load, static)	110 (50)	110 (50)	110 (50)	110 (50)	221 (100)	221 (100)	221 (100)
Component shelf height, inches (mm)	1.1 (29)	1.1 (29)	1.1 (29)	1.1 (29)	1.8 (45)	1.8 (45)	1.8 (45)
Component shelf depth, inches (mm)	16 (400)	20 (500)	24 (600)	28 (700)	20 (500)	24 (600)	28 (700)
Model No.	7164.035	7165.035	7166.035	7166.735	7465.035	-	7466.735

Enclosure width 32" (800 mm)

Load capacity lb (kg) (Surface load, static)	110 (50)	110 (50)	110 (50)	110 (50)	221 (100)	221 (100)	221 (100)
Component shelf height, inches (mm)	1.1 (29)	1.1 (29)	1.1 (29)	1.1 (29)	1.8 (45)	1.8 (45)	1.8 (45)
Component shelf depth, inches (mm)	16 (400)	20 (500)	24 (600)	28 (700)	20 (500)	24 (600)	28 (700)
Model No.	7184.035	7185.035	7186.035	7186.735	-	7486.035	7486.735

! Also required:

TS system chassis 17 x 73 mm as installation kit for enclosure depth, inches (mm), see page 522	20 (500)	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050
	24 (600)	8612.060	8612.060	8612.060	8612.060	8612.060	8612.060	8612.060
	32 (800)	8612.080	8612.080	8612.080	8612.080	8612.080	8612.080	8612.080
	39 (1000)	8612.000	8612.000	8612.000	8612.000	8612.000	8612.000	8612.000
	47 (1200)	8612.020	8612.020	8612.020	8612.020	8612.020	8612.020	8612.020

+ Accessories:

Telescopic slides, see page 543	7061.000	7081.000	7161.000	7161.700	7065.000	-	7066.700
Handles for component shelves, see page 544	5501.730	5501.730	5501.730	5501.730	5501.730	5501.730	5501.730
Cable support, hinged	see page 544						

Component Shelf, Static Installation

for TS, PC

prepared for fan expansion kit

Mounted directly on the vertical TS enclosure section. Simply locate the 4 pre-installed screws and secure.

Load capacity:

- 40 kg surface load, static

Material:

- Carbon steel

Color:

- RAL 7015

Supply includes:

- Assembly components

For enclosures ¹⁾		Support area		Model No.
Width inches (mm)	Depth inches (mm)	Width inches (mm)	Depth inches (mm)	
24 (600)	24 (600)	20 (507)	22 (550)	8800.900
24 (600)	32 (800)	20 (507)	30 (750)	8800.910

¹⁾ For enclosures without mounting plate

+ Accessories:

- Fan expansion kit 7980.XXX, see page 358

Component shelves for attaching to the 19" system punching

Component Shelf, Static Installation

19" (482.6 mm), depth-variable for TS IT

For static installation between two 19" mounting levels.

- Depth-variable to adapt to individual distances between levels
- Tool-free, time-saving one-person assembly

Material:

- Carbon steel

Surface finish:

- Spray-finished

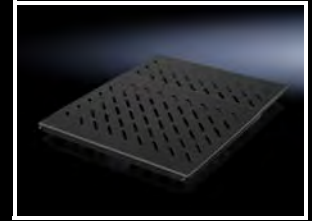
Color:

- RAL 9005

Supply includes:

- Assembly components

Distance between levels inches (mm)	Load capacity, static lb (kg)	Height U	Packs of	Model No.
16 – 24 (400 – 600)	110 (50)	½	1 set(s)	5501.655
24 – 35 (600 – 900)	110 (50)	½	1 set(s)	5501.665
16 – 24 (400 – 600)	221 (100)	1	1 set(s)	5501.695
24 – 35 (600 – 900)	221 (100)	1	1 set(s)	5501.705



Component Shelf, Pull-Out

19" (482.6 mm) for TS IT

Mounted between two 19" mounting levels.

- Depth-variable to adapt to individual distances between levels
- Tool-free, time-saving one-person assembly from the enclosure front
- Self-locking
- Full withdrawal

Material:

- Carbon steel

Surface finish:

- Spray-finished

Color:

- RAL 9005

Supply includes:

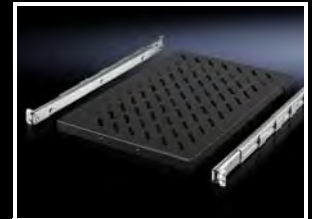
- Component shelf, slotted
- Telescopic slide with mounting kit
- Assembly components

Distance between levels inches (mm)	Load capacity, static lb (kg)	Height U	Depth inches (mm)	Packs of	Model No.
16 – 24 (400 – 600)	110 (50)	1	20 (500)	1 set(s)	5501.675
24 – 35 (600 – 900)	110 (50)	1	28 (700)	1 set(s)	5501.685
16 – 24 (400 – 600)	221 (100)	1½	20 (500)	1 set(s)	5501.715
24 – 35 (600 – 900)	221 (100)	1½	28 (700)	1 set(s)	5501.725



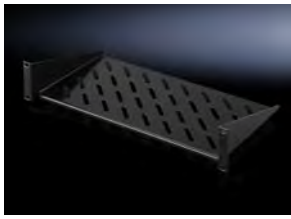
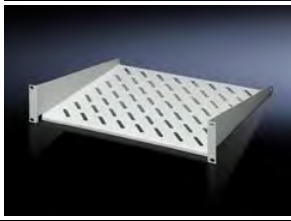
Accessories:

- Handle for component shelf 5501.730, see page 544



Interior Fittings

Component shelves for attaching to the 19" system punching



Component Shelf 2 U, Static Installation

19" (482.6 mm)

for 19" system punchings

For mounting on a 19" mounting level.

Load capacity:

- 25 kg surface load, static

Material:

- Carbon steel

Surface finish:

- Spray-finished

Component shelf depth inches (mm)	RAL color	Packs of	Model No.
10 (250)	9005	1 pc(s).	5501.615
16 (400)	9005	1 pc(s).	5501.625

Note:

- Not suitable for combination with telescopic slides



Also required:

- Captive nuts, see page 538
- Screws, see page 539

Installation Kit, Depth-Variable for 19" component shelves

Depending on the clearance between the two 19" (482.6 mm) levels, the mounting kit is screw-fastened in the depth directly to the 19" (482.6 mm) system punching.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

19" clearance between levels inches (mm)	Packs of	Model No.
22 – 33 (550 – 850)	2 pc(s).	7063.850

Installation kits/Accessories for component shelves

TS System Chassis 17 x 73 mm

as installation kit for component shelves

Simply locate and secure. One pack is sufficient for 2 component shelves.

Load capacity:

- 100 kg surface load, static

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Installation in enclosure depth inches (mm)	Packs of	Model No.
20 (500)	4 pc(s).	8612.050
24 (600)	4 pc(s).	8612.060
32 (800)	4 pc(s).	8612.080
39 (1000)	4 pc(s).	8612.000
47 (1200)	4 pc(s).	8612.020



Adapter for L Rails

for TS network enclosures

To mount component shelves and slide rails on L rails.

Material:

- Carbon steel

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	7827.300



Telescopic Rails

for component shelves in TS and for upgrading existing DK-TS applications

Fixed component shelves can easily be upgraded to allow full withdrawal. In this case, the existing fastening bolts or mounting rails (heavy-duty version) are replaced with telescopic rails.

Technical description:

- For installation and locking on a 25 mm hole pattern in the enclosure depth

Load capacity:

- 50 kg/100 kg per set

Material:

- Carbon steel

Surface finish:

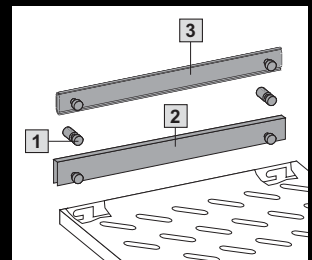
- Zinc-plated

Load capacity 110 lb (50 kg)

For component shelf depth inches (mm)	Packs of	Model No.
16 (400)	2 pc(s).	7061.000
20 (500)	2 pc(s).	7081.000
24 (600)	2 pc(s).	7161.000
28 (700)	2 pc(s).	7161.700

Load capacity 221 lb (100 kg)

For component shelf depth inches (mm)	Packs of	Model No.
20 (500)	2 pc(s).	7065.000



- 1 Fastening Bolts
- 2 Mounting Rails
- 3 Telescopic Rails

Interior Fittings

Accessories for Component Shelves



Cable Support

hinged, with quick-fit connector

For secure routing of connection cables from the component shelf with telescopic pull-out to the clamping point. Can be released from both sides using the quick-release fastener.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure depth, inches (mm)	Model No.
< 24 (600)	7163.500
> 24 (600)	7163.550



Cable Support

hinged, with anti-kink device and clamp

For secure routing of connection cables from the component shelf with telescopic pull-out to the clamping point. Kink-free cable routing in the desk unit using mobile chain links. Can be released from both sides using the quick-release fastener.

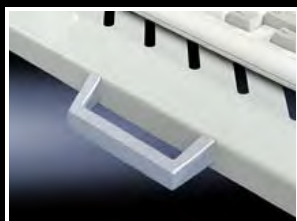
Material:

- Carbon steel, zinc-plated
- Center section: Plastic

Supply includes:

- Assembly components

For enclosure depth, inches (mm)	Model No.
< 24 (600)	7163.560
> 24 (600)	7163.565



Handles

for pull-out component shelves

The component shelves are designed to allow installations where a handle is required in the application.

Material:

- Die-cast zinc

Surface finish:

- Spray-finished, silver-gray

Supply includes:

- Assembly components

Packs of	Model No.
2 pc(s).	5501.730



Fastening Bolts

for slotted component shelves

Provides non-slip attachment of your components. The bolts are screwed into the slots in the component shelf support surface. This makes them adjustable and suitable for use with any components.

Packs of	Model No.
4 pc(s).	7115.000

System lights

- For direct mounting in all large enclosures
- For mounting on compact enclosures, wall-mounted enclosures and console systems using system accessories

Protection category IP to IEC 60 529:

- IP 20



Also required:

- Connection accessories, see page 550



Accessories:

- Adapter bracket, see page 533
- Universal bracket, see page 537
- Rail for interior fitting, see page 521



Technical comparison/fittings			Standard light	Courtesy light	Universal light	Compact light	LED system light	Enclosure light
Page			546	546	546	547	548	549
Supply voltage	100 – 240 V, 50/60 Hz		–	■	■	■	–	–
	120 V, 60 Hz		■	–	–	–	–	■
	230 V, 50 Hz		■	–	–	–	–	–
	24 V (DC)		–	–	–	■	■	–
Fully electronic ballast			–	■	■	■	–	■
Bulb	Fluorescent lamp, G13 backplate		■	■	–	–	–	■
	Compact fluorescent lamp, 2G11 backplate		–	–	■	–	–	–
	T5 fluorescent lamp		–	–	–	■	–	–
	LEDs, cool white		–	–	–	–	■	–
Protection category	I (equipment grounding conductor)		■	■	■	–	–	–
	II (total insulation)		–	–	–	■	–	–
	III (SELV)		–	–	–	–	■	–
Mounting type	Screw fastening		■	■	■	■	■	–
	Clip fastening		–	–	–	■	■	■
	Magnetic fastener (accessories)		–	–	–	■	■	–
Mounting option	TS roof frame (horizontal profile)	direct	■	■	■	■	■	■
		with adapter bracket	■	■	■	–	–	■
	TS, SE vertical profile	direct	–	–	–	■	■	–
		with adapter bracket	■	■	■	–	–	■
	SE roof frame (profile front and rear)	direct	–	–	–	■	■	■
		with adapter bracket	■	■	■	■	■	■
	SE roof frame (profile side)	direct	■	■	■	■	■	■
		with universal bracket	■	■	■	–	–	■
	AE, CM, TP	with magnetic fastener	–	–	–	■	■	–
AE		with rail for interior fitting	■	■	■	■	■	■
Connection options	Power supply/connection cable		■	■	■	■ ⁽³⁾	■	■
	Door-operated switch		■	■	–	■	■	■
	Through-wiring (switch several lights in series)		■	■	■	–	■	–
Approvals	UL/cUL		■ ⁽²⁾	–	■ ⁽²⁾	■ ⁽²⁾	– ⁽¹⁾	■
	ENEC		■ ⁽²⁾	■	–	■ ⁽²⁾	–	–
	VDE		–	–	■ ⁽²⁾	–	–	–
Fittings	Light bulb cover		–	■	■	■	■	■
	Light cone adjustment		–	–	–	–	■	–
	Integrated outlets, ground contact		■ ⁽²⁾	■	■ ⁽²⁾	–	–	–
	Integrated outlets, USA		■ ⁽²⁾	–	–	–	–	■
	Integrated motion detector		–	–	■	–	–	–
Integrated door-operated switch			■ ⁽²⁾	■ ⁽²⁾	–	–	–	–

¹⁾ Safety extra-low voltage, not required by the standard

²⁾ Depending on fittings

³⁾ Integrated

Interior Fittings

System lights



Universal light

With integral motion detector

Advantages:

- Insulated plastic housing
- Efficient compact fluorescent tubes
- Light easy to mount on enclosure

Material:

- Plastic

Supply includes:

- Mounting clips



Also required:

- Connection accessories, see page 550

Technical specifications	Outlet	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.	Approvals
61 BTU (18 W), 110 – 240 V, 50 – 60 Hz	Ground contact	4 (95)	14 (343)	2 (55)	4155.110	VDE
	–	4 (95)	14 (343)	2 (55)	4155.010	VDE
	–	4 (95)	14 (343)	2 (55)	4155.510	UL



Courtesy light

Without door-operated switch

Technical specifications	Outlet	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.	Approvals
48 BTU (14 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	18 (452)	2 (50)	4139.140	ENEC
61 BTU (18 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	27 (682)	2 (50)	4139.180	ENEC
102 BTU (30 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	39 (987)	2 (50)	4139.300	ENEC



With door-operated switch

Technical specifications	Outlet	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.	Approvals
48 BTU (14 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	18 (452)	2 (50)	4139.150	ENEC
61 BTU (18 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	27 (682)	2 (50)	4139.190	ENEC
102 BTU (30 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	39 (987)	2 (50)	4139.350	ENEC



Also required:

- Connection accessories, see page 550



Standard light

Without door-operated switch

Technical specifications	Outlet	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.	Approvals
48 BTU (14 W), 230 V, 50 Hz	Ground contact	5 (117)	18 (452)	2 (50)	4138.140	ENEC
61 BTU (18 W), 230 V, 50 Hz	Ground contact	5 (117)	27 (682)	2 (50)	4138.180	ENEC
102 BTU (30 W), 230 V, 50 Hz	Ground contact	5 (117)	39 (987)	2 (50)	4138.300	ENEC
48 BTU (14 W), 120 V, 60 Hz	USA	5 (117)	18 (452)	2 (50)	4138.240	cURus
61 BTU (18 W), 120 V, 60 Hz	USA	5 (117)	27 (682)	2 (50)	4138.280	cURus
102 BTU (30 W), 120 V, 60 Hz	USA	5 (117)	39 (987)	2 (50)	4138.400	cURus



With door-operated switch

Technical specifications	Outlet	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.	Approvals
48 BTU (14 W), 230 V, 50 Hz	Ground contact	5 (117)	18 (452)	2 (50)	4138.150	ENEC
61 BTU (18 W), 230 V, 50 Hz	Ground contact	5 (117)	27 (682)	2 (50)	4138.190	ENEC
102 BTU (30 W), 230 V, 50 Hz	Ground contact	5 (117)	39 (987)	2 (50)	4138.350	ENEC
48 BTU (14 W), 120 V, 60 Hz	USA	5 (117)	18 (452)	2 (50)	4138.250	cURus
61 BTU (18 W), 120 V, 60 Hz	USA	5 (117)	27 (682)	2 (50)	4138.290	cURus
102 BTU (30 W), 120 V, 60 Hz	USA	5 (117)	39 (987)	2 (50)	4138.450	cURus



Also required:

- Connection accessories, see page 550

Compact light

Slimmer – Faster – Brighter

- Slimmer: Height and depth reduced by around 50%, takes up 75% less volume than conventional lights
- Faster: Universal quick-release fastening using clips, screws or powerful magnets (optional). Easy to insert at the sides or rear, fit light and you're done!
- Brighter: Light has up to 75% higher standard comparison efficiency for the same output, for reduced energy costs
- Door-operated switch connection can be made using 2-pole connector

Color:

- Similar to RAL 7035

Protection category IP to IEC 60 529:

- IP 20

Supply includes:

- Compact light with clip and screw mounting kits plus assembly components

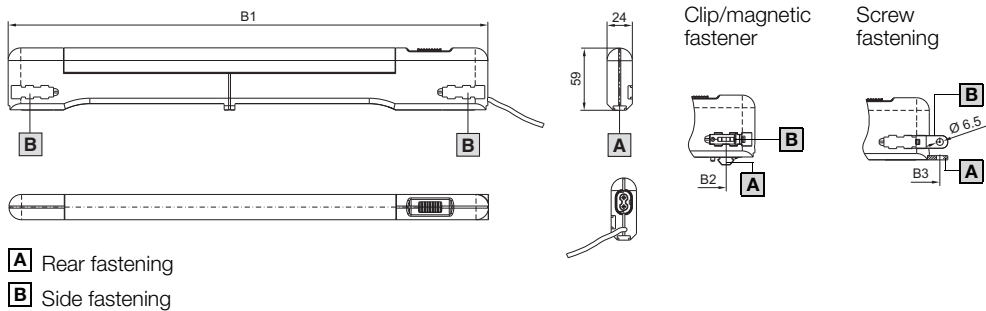


Accessories:

- Magnet mounting kit, see page 547
- Door-operated switch with connection cable, see page 550

Model No.	ENEC 24	4140.010	–	4140.020	–	4140.110	4140.120
	cURus	–	4140.210 ¹⁾	–	4140.220 ¹⁾	–	–
Rated voltage	100 – 240 V ±10% at 50 – 60 Hz					24 V (DC) ±10%	
BTU output (watts)	27 (8)			48 (14)		27 (8)	
Protection category	II (total insulation)						
Width (B1) inches (mm)	18 (455)			28 (705)		18 (455)	
Mounting clearance (B2) inches (mm) clip/magnet	16 (400)			26 (650)		16 (400)	
Mounting clearance (B3) inches (mm)	19 (475)			29 (725)		19 (475)	
Connection cable	118" (3 m) (open end)						
Sheath color	Yellow	Gray	Yellow	Gray	Yellow	Yellow	
Rated current A							
– at 230 V	0.045 – 0.088			0.073 – 0.127		–	–
– at 110 V	0.083 – 0.149			0.149 – 0.216		–	–
– at 24 V (DC)	–			–		0.35	0.57
Bulb	T5 fluorescent lamp						
Controller	Wide range voltage EB					EB	
Switch	Integrated, On/Off/Door-Operated Switch mode						
Light cover	Transparent, grooves on the inside						
Cable deflector across rear	■	–	■	–	■	■	

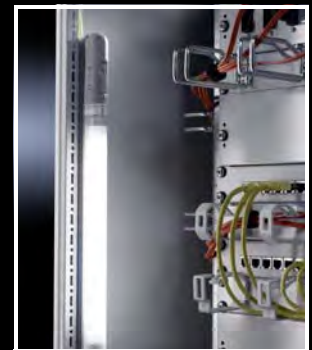
¹⁾ Only for the North American market



Magnet mounting kit

For reliable adhesion to all carbon steel surfaces.

Packs of	Model No.
2 pc(s).	4140.000



Interior Fittings

System lights



LED system light

In 24 V (DC) version

- Max. EMC capacity
- Protected with the safety extra-low voltage range
- Economical energy use
- Low-maintenance due to use of LEDs
- May be connected to a door-operated switch
- Integral through-wiring
- Universal mounting options
- Pivoting light cone

Material:

- Light body: extruded aluminum
- Light cover: Polycarbonate (halogen-free)
- Light ends: PC-ABS

Color:

- Similar to RAL 7035

Protection category IP to IEC 60 529:

- IP 20

Supply includes:

- LED system light with clip and screw mounting kits plus assembly components

Model No.	4140.810	4140.820	4140.830	4140.840
Rated voltage	24 V (DC) (±10%)			
Number of LEDs	10	20	30	40
Protection category	III (SELV)			
Width (B1) inches (mm)	9 (230)	13 (330)	17 (430)	21 (530)
Mounting clearance, CLIP (B2) inches (mm)	7 (175)	11 (275)	15 (375)	19 (475)
Mounting clearance, screw fastening (B3) inches (mm)	10 (250)	14 (350)	18 (450)	22 (550)
Rated current A ¹⁾	0.04	0.08	0.12	0.16
Switch	Integrated, On/Off/Door-Operated Switch mode			

¹⁾ Maximum baying up to a total rated current strength of 2 amps



Also required:

- LED connection cable, see page 549 or
- Door-operated switch with LED connection cable, see page 549

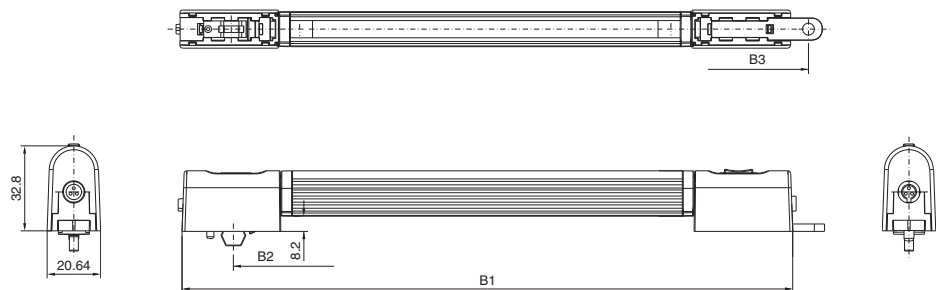


Accessories:

- Magnet mounting kit, see page 547
- Door-operated switch with LED interconnecting cable, see page 549
- LED interconnecting cable, see page 549
- Adapter power pack, see page 549

Note:

- Only intended for use in enclosures and closed housings
- When using on customer-supplied power packs, it is important to obtain the requisite approvals depending on the application

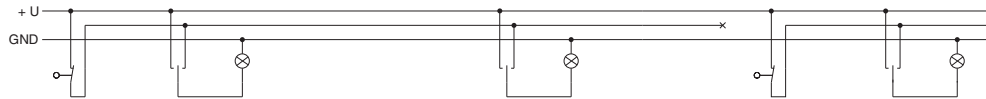
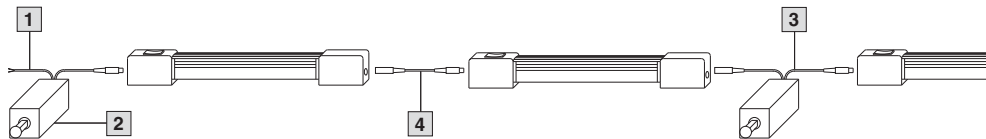


Connection accessories for LED system light

	Connection cable	Length inches (mm)	Packs of	Model No.
1	LED connection cable	118 (3000)	1 pc(s).	4315.800
	Door-operated switch	Length inches (mm)	Packs of	Model No.
2	With LED connection cable	118 (3000)	1 pc(s).	4315.810
3	With LED interconnecting cable	39 (1000)	1 pc(s).	4315.820
	Interconnecting cable	Length inches (mm)	Packs of	Model No.
4	LED interconnecting cable	24 (600)	1 pc(s).	4315.830
		39 (1000)	1 pc(s).	4315.840
		118 (3000)	1 pc(s).	4315.850
	Adapter power pack	Technical specifications	Packs of	Model No.
5	Adapter power pack	100 – 230 V/24 V (DC), 1 A	1 pc(s).	4315.860

Schematic diagram for LED system light 24 V (DC):

- 1 Connection cable
- 2 Door operated switch with LED connection cable (open end/cable bush)
- 3 Door operated switch with LED interconnecting cable
- 4 LED interconnecting cable for through-wiring



Enclosure light

- Simple installation
- External terminal block means there is no need for disassembly when connecting fluorescent tubes
- Available in 15 or 18 W
- With or without door-operated switch (4127.010, see page 550)
- Fitted with a suppression capacitor or an interference suppressor filter
- Available with or without bulb cover or 115 V US outlet

Technical specifications:

- Supply voltage: 120 V, 60 Hz
- Bulb: cool white
- Terminals: L1 N. GND
- On/off rocker switch

Color:

- RAL 7044

Protection category:

- UL recognized for Canada and USA

Supply includes:

- Assembly components

	Installation length inches (mm)	Technical specifications 120 V, 60 Hz	Model No.
With suppression capacitor, without outlet	18 (467)	15 W	9968.108
	24 (620)	18 W	9968.109
With interference suppression filter, US outlet and bulb cover	18 (467)	15 W	9968.111
	24 (620)	18 W	9968.112



Interior Fittings

System lights

Connection accessories

The following components are available for easy, time-saving connection of lights:



Accessories:

- Cable ties for quick mounting, see page 576



Connection cable for		UL	Length inches (mm)	Packs of	Model No.	
					Orange	Gray
1	Power supply (with outlet, without connector)	–	118 (3000)	5 pc(s).	4315.100	–
1	Power supply (with socket and strain relief, without connector)	■	118 (3000)	1 pc(s).	–	4315.150
2	Through-wiring (with outlet and connector)	■	24 (600)	1 pc(s).	–	4315.450
2	Through-wiring/power supply via connection component 2507.500 (with outlet and connector)	–	24 (600)	5 pc(s).	4315.400	–
		–	39 (1000)		4315.200	–
		–	157 (4000)	1 pc(s).	4315.600	–

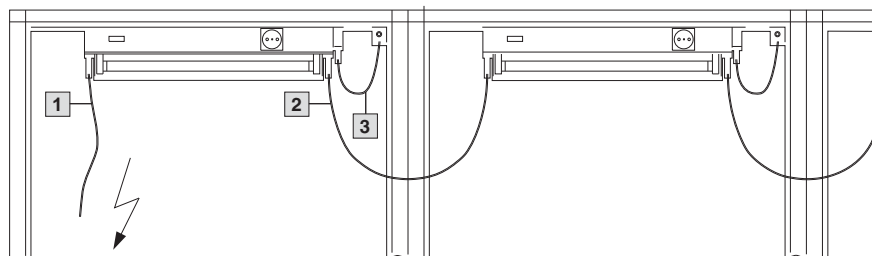
Door-operated switch with installation accessories		UL	Length inches (mm)	Technical specifications	Packs of	Model No.		
						Orange	Yellow	Gray
3	With connection cable (not required for universal lights and standard/courtesy lights with integrated door-operated switch)	–	24 (600)	240 V, 6 A 125 V, 8 A 24 V, 6 A 24 V (DC), 6 A	1 pc(s).	4315.520	–	–
			39 (1000)		1 pc(s).	4315.320	–	–
		■	24 (600)		1 pc(s).	–	–	4315.550
			39 (1000)		1 pc(s).	–	–	4315.350
	Without connection cable	■	–		1 pc(s).	4127.010		
4	With connection cable (for compact lights)	–	24 (600)	240 V, 2.5 A 125 V, 2.5 A 24 V, 2.5 A 24 V (DC), 2.5 A	1 pc(s).	–	4315.710	–
		■	24 (600)		1 pc(s).	–	–	4315.720

Door-operated switch with toggle		UL	Technical specifications	Packs of	Model No.
5	Without connection cable, for TS enclosures with large installed pivoting frame. The toggle is actuated via the tubular door frame of the carbon steel door, or in the case of glazed doors, via an adapter included with the supply.	■	240 V, 6 A 125 V (DC), 8 A 24 V, 6 A 24 V (DC), 6 A	1 pc(s).	4127.210

Connection components with 10 A circuit breaker				Packs of	Model No.
6	Reduce installation costs: System lights and workstation lights are supplied with power quickly and reliably through the connection cable. Use connector 2507.200 if you are configuring cables yourself. Connection component that snaps onto a top hat rail.			1 pc(s).	2507.500

For self-assembly		Packs of	Model No.
Outlets for power supply through-wiring		5 pc(s).	2507.100
7	Connectors for connection component through-wiring	5 pc(s).	2507.200
	T distributor with 2 outlets, 1 connector	5 pc(s).	2507.300
	Connector for door-operated switch cable	5 pc(s).	2507.400

- 1 Connection cable for power supply
- 2 Connection cable for through-wiring/power supply
- 3 Door-operated switch with connection cable



EMC Baying Seal

for TS

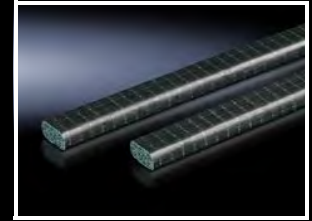
To bay enclosure systems.

Seal with all-round, electrically conductive sheathing.

Supply includes:

- 3 seals, length 2 m each

Cross-section inches (mm)	Model No.
0.25 x 0.25 (6.3 x 6.3)	8800.690



EMC Partition Wall Seal

This seal ensures optimum contact in bayed EMC enclosure systems and when using a zinc-plated divider panel.

Material:

- PU foam with electrically conductive sheathing

Supply includes:

- 1 roll (12.7 x 12.7 x 5300 mm)

Packs of	Model No.
1 pc(s).	4348.000



Rail

for EMC shielding bracket and strain relief

Combined rails for strain relief and EMC contacting of inserted cables.

Mounting option

- On the horizontal/vertical TS, SE, PC enclosure section
- On a mounting plate

May also be fitted without a retaining bracket
Additional contacting on the left or right of the rail via existing holes (9 mm diameter)

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 1 rail
- 2 retaining brackets
- Assembly components

Width inches (mm)	Packs of	Model No.
24 (600)	1 pc(s).	2388.600
32 (800)	1 pc(s).	2388.800
39 (1000)	1 pc(s).	2388.000
47 (1200)	1 pc(s).	2388.120



Also required:

- EMC shielding bracket, see page 552
- Cable clamps for strain relief, see page 575



Accessories:

- Ground straps, see page 555
- Grounding braid, see page 555

Technical details:

Available on the Internet



Interior Fittings

EMC



EMC Shielding Bracket

Quick assembly, no tools required:
Press the EMC shielding bracket against the cable shield and clip into the rail.
Diameter changes are compensated in full by the spring.

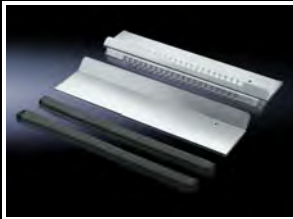
Material:

- Carbon steel

Surface finish:

- Zinc-plated

For shield diameter mm	Packs of	Model No.
3 – 10	10 pc(s).	2388.100
4 – 15	10 pc(s).	2388.150
10 – 20	10 pc(s).	2388.200
15 – 28	10 pc(s).	2388.280



EMC Base Plates

For shielded cables with max. 20 mm diameter.
Combined EMC/IP seal provides for low-resistance contact between cable shield and base plate.
For all 400, 500, 600 and 800 mm deep enclosures, in combination with standard base plates.

Material:

- Carbon steel

Surface finish:

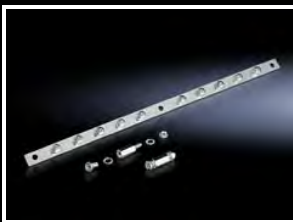
- Zinc-plated

Supply includes:

- 1 base plate with T-head punching
- 1 sliding base plate
- 2 IP/EMC seals

Width inches (mm)	Packs of	Model No.
24 (600)	1 set(s)	8800.660
32 (800)	1 set(s)	8800.680
39 (1000)	1 set(s)	8800.600¹⁾
47 (1200)	1 set(s)	8800.620¹⁾

¹⁾ For one enclosure half only



EMC Shield Bus

Made of corrosion-resistant steel strip, 75 mm² cross section, for cable shield contact.

Supply includes:

- Assembly components

Rail length inches (mm)	Connections	Packs of	Model No.
15 (375)	10	1 pc(s).	2413.375
22 (550)	16	1 pc(s).	2413.550



EMC Ground Clamps

The clamps can be used on the device itself or on the operating equipment on the mounting plate.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Size mm	Packs of	Model No.
4	50 pc(s).	2367.040
6	50 pc(s).	2367.060
8	50 pc(s).	2367.080
12	50 pc(s).	2367.120
16	50 pc(s).	2367.160
20	25 pc(s).	2367.200¹⁾

¹⁾ 2 assembly brackets

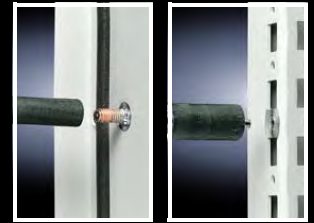
Contact Cutter

The contact cutter enables EMC-compatible preparation of the contact point e.g. for grounding braids. Resin-bonded wire brush with guide pin for round system holes.

With arbor for drill, grinder, etc.

For	Model No.
Frame section	2414.000
Grounding stud ¹⁾	2414.500

¹⁾ Not necessary with TS



Contact Paint

Contact paint prevents the corrosion of conductive, unprotected contact points.

Content:

– 12 ml

Packs of	Model No.
1 pc(s).	2415.000

Interior Fittings

For areas at risk of earthquake



TS 8 for Earthquake Zones 1, 2 and 3 to Bellcore

8806.500:

H x W x D 2000 x 800 x 600 mm

With base/plinth (base/plinth components at front and back, see page 427 and base/plinth- trim panel at the side, see page 428), 100 mm high.

Note:

- These versions have been tested and meet the requirements of Telcordia GR 63-CORE. They are to be understood as comparative figures for your own systems, as certification of empty housings is not possible.

TS 8 for Earthquake Zone 4 to Bellcore

8806.500:

H x W x D 2000 x 800 x 600 mm

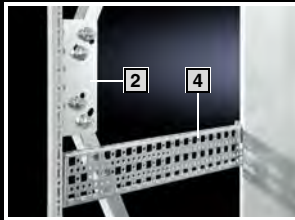
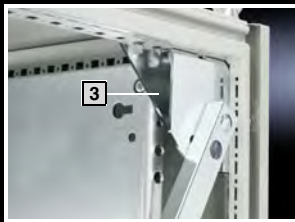
Equipped with

- Earthquake kit and
- Earthquake base/plinth, see page 554

(Photo shows TS 8 for Earthquake Zone 4 to Bellcore)

Technical details:

Available on the Internet



Earthquake kit

Material:

- Carbon steel

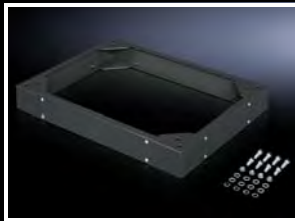
Surface finish:

- Zinc-plated

Supply includes:

- 1 2 side reinforcements, bottom
- 2 2 bracing struts each, sides
- 3 8 gusset plates
- 4 Mounting plate attachment and reinforcement including assembly components

For enclosures H x W x D inches (mm)	Packs of	Model No.
79 x 32 x 24 (2000 x 800 x 600)	1 pc(s).	8613.860



Earthquake Base/Plinth

Height 100 mm

Material:

- Corner pieces: Carbon steel, 5 mm
- Panels: Carbon steel, 2 mm

Surface finish:

- Powder-coated

Color:

- RAL 7022

Supply includes:

- 1 set =
- 4 corner pieces,
- 2 depth stays,
- each with one trim panel at front and rear
- fully assembled

For enclosures W x D inches (mm)	Packs of	Model No.
32 x 24 (800 x 600)	1 pc(s).	8601.860

Ground straps

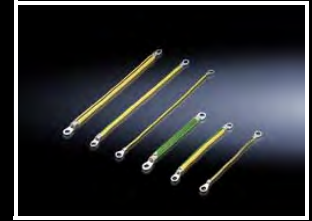
To configure a reliable grounding connection with perfect contact

- With ring terminals in M6 and M8 to match the grounding screws
- Length-optimized and ready to install

Housing	Connection option		
	Door/Cover	Housing	Mounting Plate
KL	M6	M6	M8
EB	M6	M6	–
AE	M6	M6 ¹⁾ /M8	M8
KE/KEL	M8	M8	M8
CM/TP	M6	M8	M8
TS/SE	M8	M8	M8
PC	M8	M8	–

¹⁾ M6 with AE 1032.XXX/AE 1035.XXX

Connection	Cross-section mm ²	Length inches (mm)	Packs of	Model No.
M8 – M8	4	7 (170)	5 pc(s).	2564.000
M8 – M8	16	7 (170)	5 pc(s).	2565.000
M8 – M8	25	7 (170)	5 pc(s).	2566.000
M6 – M6	10	8 (200)	5 pc(s).	2565.100
M8 – M8	4	12 (300)	5 pc(s).	2567.000
M6 – M8	10	12 (300)	5 pc(s).	2565.110
M8 – M8	10	12 (300)	5 pc(s).	2565.120
M8 – M8	16	12 (300)	5 pc(s).	2568.000
M8 – M8	25	12 (300)	5 pc(s).	2569.000



Grounding braid

Tin-plated copper, in various lengths and cross-sections with press-fit contact rings. Grounding braids counteract the proximity effect at high frequencies, while offering flexible connection options.

For	Cross-section mm ²	Length inches (mm)	Packs of	Model No.
M6	10	8 (200)	10 pc(s).	2412.210
M8	16	8 (200)	10 pc(s).	2412.216
M8	25	8 (200)	10 pc(s).	2412.225
M6	10	12 (300)	10 pc(s).	2412.310
M8	16	12 (300)	10 pc(s).	2412.316
M8	25	12 (300)	10 pc(s).	2412.325



Assembly components

for system punchings

To fasten ground straps and grounding braids to

- Horizontal TS enclosure sections
- PS rail systems
- Horizontal SE enclosure sections (in the depth only, top)

Size	Packs of	Model No.
M6	10 set(s)	2570.000
M8	10 set(s)	2559.000



Also required:

- For mounting on the horizontal TS, SE enclosure section: Captive nut, see page 538



Assembly components

for base plates

To fasten ground straps and grounding braids to

- Base plates

Self-tapping screws allow for rapid assembly

Size	Packs of	Model No.
M8	10 set(s)	2570.200



Contact washers

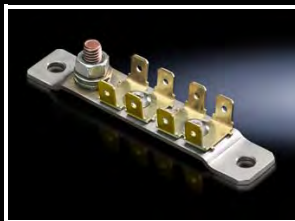
The serrated contact washers facilitate a secure protective grounding conductor connection. No need to manually remove paint at the point where the connection is made.

Size	Packs of	Model No.
M5	100 pc(s).	2343.000
M6	100 pc(s).	2334.000
M8	100 pc(s).	2335.000



Interior Fittings

Grounding



Grounding plate

For installation in

- Comfort Panel
- TS
- SE
- PC

A grounding cable can be screwed onto the threaded bolt and connected with up to eight components via a 6.3 mm spade terminal using grounding bands.

Packs of	Model No.
1 pc(s).	2570.500

Supply includes:

- Assembly components



Central grounding point

For connecting

- Grounding bands
- Grounding braids

To the vertical and horizontal enclosure section.

The terminal lug is joined to and makes contact with the enclosure frame by means of two sheet metal screws.

The ground connection is made through the M8 x 20 mm threaded bolt.

Material:

- Carbon steel

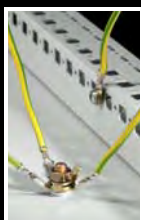
Surface finish:

- Zinc-plated

Packs of	Model No.
1 pc(s).	7829.200

Supply includes:

- 1 connection bracket
- 2 assembly screws for mounting to the enclosure section
- 2 serrated washers
- 1 nut M8
- 1 contact lock washer M8
- 1 washer



Equipotential bonding star for 8 mm grounding bolt

The grounding connector is used for simple equipotential bonding on an 8 mm grounding stud, or in conjunction with the central grounding point 7829.200. Up to five spade terminals (6.3 mm) can be contacted on one grounding point.

Packs of	Model No.
10 pc(s).	7548.210

Supply includes:

- 10 grounding connectors
- Assembly components



Complete grounding kit

for upgrading existing DK-TS applications

To DIN EN 60 950/VDE 0805, Ø 4 mm².

For system-compatible grounding of all enclosure parts on the enclosure frame. Ground conductors are pre-assembled ready for connection with connectors and cut to the correct length.

Packs of	Model No.
1 set(s)	7829.150

Supply includes:

- 8 ground straps
- Central grounding point and assembly components



Grounding kit KE

To produce the required external equipotential bonding for spray-finished housings in the following series:

- KL
- AE
- TS

For application areas in device group II, category 3, as per EC directive 94/9 EC Annex VIII, Internal Control of Production.

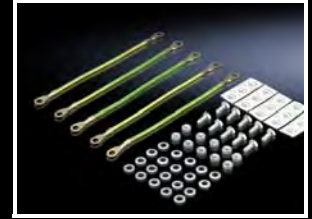
Packs of	Model No.
5 pc(s).	9214.000

Grounding kit

for KL

Includes all the screws, nuts, contact washers and grounding strap needed to ground the cover; length 250 mm, 4 mm² cross-section.

Packs of	Model No.
5 pc(s).	2570.100



PE busbar

699 mm-long PE busbar with 42 pre-assembled screws, including terminal clamps up to 6 mm² (fine-wire conductors), 10 mm² (single-wire or multi-wire conductors) and main terminal clamp up to 35 mm².

Packs of	Model No.
1 pc(s).	2364.000



Accessories:

- Rail mounting bracket, see page 537



Ground rail, horizontal

for TS

Supply includes:

- Ground rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm
- 20 connection points with M5 screws
- 2 ground connections 25 mm²
- 2 isolators
- Assembly components

Length, inches (mm)	Packs of	Model No.
18 (450)	1 pc(s).	7113.000



Grounding kit, pre-assembled

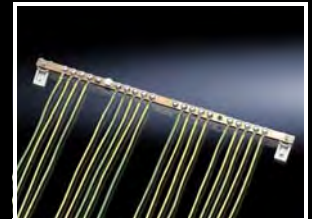
for TS, TS IT

For star grounding. With pre-assembled ground conductors to integrate an equipotential bonding strip in network enclosures.

Supply includes:

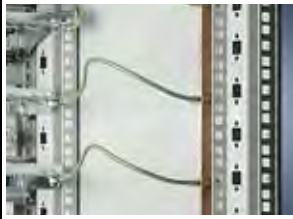
- Ground rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601
- 16 grounding leads 6 mm²
- 2 isolators
- Assembly components

For TS enclosures up to H x W x D inches (mm)	Packs of	Model No.
79 x 32 x 32 (2000 x 800 x 800)	1 set(s)	7829.100
87 x 32 x 47 (2200 x 800 x 1200)	1 set(s)	7829.110



Interior Fittings

Grounding



Ground rail, vertical

for TS

Easy to mount on 25 mm DIN hole pattern on distributor or on 19" (482.6 mm) punched rails. The supplied ground conductors facilitate star grounding of cable clamp straps on patch panels. The ground terminals are fully adjustable. Rail current carrying capacity approx. 200 A.

Supply includes:

- Ground rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm
- 16 conductor connection clamps 2.5 – 16 mm²
- 15 grounding leads 6 mm², L = 500 mm
- Assembly components

For enclosure height inches (mm)	Length inches (mm)	Packs of	Model No.
32 (800)	21 (545)	1 set(s)	7541.000
39 (1000)	29 (745)	1 set(s)	7542.000
47 (1200)	37 (945)	1 set(s)	7543.000
63 (1600)	53 (1345)	1 set(s)	7545.000
71 (1800)	61 (1545)	1 set(s)	7546.000
79 (2000)	69 (1745)	1 set(s)	7547.000
87 (2200)	77 (1945)	1 set(s)	7548.000

Extension kit

for ground rail, vertical

For system-compatible expansion of the star grounding on vertical grounding strips.

Supply includes:

- Grounding leads 6 mm², L = 500 mm
- Pre-assembled, with cable lug and wire end ferrule
- Ground terminals 2.5 – 16 mm²
- Assembly components

Packs of	Model No.
10 pc(s).	7549.000

ESD connection point

There is a risk of dangerously high potential differences when carrying out maintenance or conversion work on the enclosure. To protect sensitive electronic components, grounding can be provided through a standardized connection point (push-button). The connection point is connected to the enclosure frame by two screws and is directly conductive.

Packs of	Model No.
1 pc(s).	7752.950

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Busbars E-Cu

with integral holes

Suitable for

- Direct installation in enclosures
- Busbar supports
 - 9340.000/.010, see page 198
- PE/PEN combinations in conjunction with PE/PEN combination angles, see page 559, and E-Cu baying bracket, see page 560

Technical details:

Available on the Internet

Dimensions 30 x 5 mm (hole pattern Ø 11 mm)

For enclosure width inches (mm)	Length inches (mm)	Packs of	Model No.	Page
16 (400)	14 (365)	2 pc(s).	9661.345	
24 (600)	22 (565)	2 pc(s).	9661.365	
32 (800)	30 (765)	2 pc(s).	9661.385	
39 (1000)	38 (965)	2 pc(s).	9661.305	
47 (1200)	46 (1165)	2 pc(s).	9661.325	

Accessories

Baying bracket E-Cu	95	4 pc(s).	9661.355	560
PE/PEN combination angle	–	4 pc(s).	9661.235	559

Dimensions 30 x 10 mm (hole pattern Ø 11 mm)

For enclosure width inches (mm)	Length inches (mm)	Packs of	Model No.	Page
16 (400)	14 (365)	2 pc(s).	9661.340	
24 (600)	22 (565)	2 pc(s).	9661.360	
32 (800)	30 (765)	2 pc(s).	9661.380	
39 (1000)	38 (965)	2 pc(s).	9661.300	
47 (1200)	46 (1165)	2 pc(s).	9661.320	

Accessories

Baying bracket E-Cu	95	4 pc(s).	9661.350	560
PE/PEN combination angle	–	4 pc(s).	9661.230	559

PE/PEN combination angle, E-Cu

for PE/PEN combinations

The PE/PEN combination, comprising busbars, combination angles and baying brackets, supports type-tested configurations as per IEC 61 439-1. The pre-assembled combination angles, baying brackets and the busbars individually cut to the enclosure width make for extremely time and cost-efficient assembly.

Material:

- E-Cu

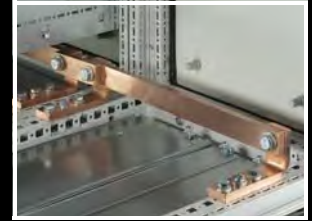
Supply includes:

- Assembly components

Tested short-circuit resistance

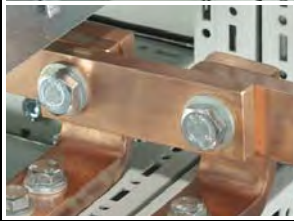
- PE/PEN combination
30 x 5 mm:
 I_{cw} 18 kA, 1 sec.
- PE/PEN combination
30 x 10 mm:
 I_{cw} 30 kA, 1 sec.
- PE/PEN combination
40/80 x 10 mm:
 I_{cw} 60 kA, 1 sec.

For busbars mm	Application		Dimension mm	Packs of	Model No.
	Form 2-4	Others			
30 x 5	■	■	30 x 5	4 pc(s).	9661.235
30 x 10	■	■	30 x 10	4 pc(s).	9661.230



Interior Fittings

Grounding



Baying bracket E-Cu

For busbars mm	Length inches (mm)	Packs of	Model No.
30 x 5	4 (95)	4 pc(s).	9661.355
30 x 10	4 (95)	4 pc(s).	9661.350

Cable routing

Cable entry



Cable entry plates

for

- Cable entry grommets
- Connector grommets

Instead of the standard, segmented divided base plates

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For installation in TS, SE and PC enclosures

Enclosure width inches (mm)	Cut-outs per plate	Packs of	Model No.
24 (600)	5	2 pc(s).	8800.060
32 (800)	8	2 pc(s).	8800.080
39 (1000)	4	4 pc(s).	8800.100
47 (1200)	6	4 pc(s).	8800.120

For installation in CM enclosures and TP TopConsole system

Enclosure width inches (mm)	Cut-outs per plate	Packs of	Model No.
24 (600)	5	1 pc(s).	5001.226
32 (800)	8	1 pc(s).	5001.227
39 (1000)	4	1 pc(s).	5001.228
47 (1200)	6	1 pc(s).	5001.229
63 (1600)	8	1 pc(s).	5001.237

For installation in TP universal console

Enclosure width inches (mm)	Cut-outs per plate	Packs of ¹⁾	Model No.
24 (600)	5	2 pc(s).	4320.700
32 (800)	8	2 pc(s).	4321.700
39 (1000)	10	2 pc(s).	4323.700

¹⁾ Including compensating plate



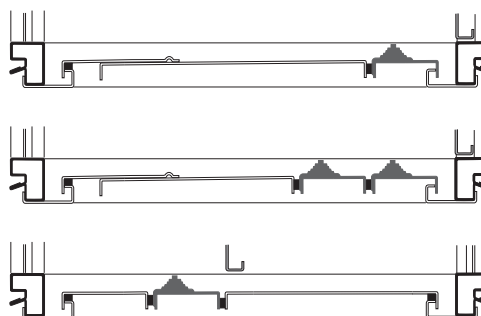
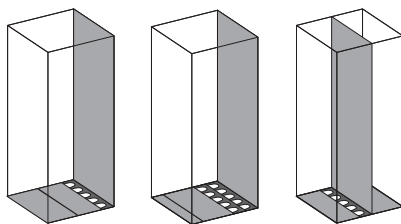
Accessories:

- Cable entry grommets, see page 562

Three examples from a wide range of options

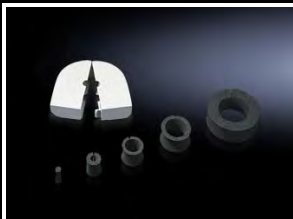
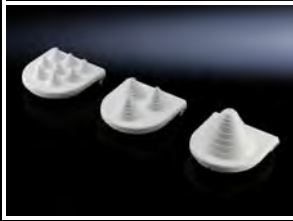
The graphics show three TS examples for the positioning of cable entry plates instead of segments of the standard three-piece base plates. This enables appropriate positioning in line with the mounting plate.

Thanks to the enclosure symmetry, the cable entry plates, like the base plates, can also be used in the enclosure depth, on the right and left.



Cable routing

Cable entry



Cable entry grommets

Combined with the cable entry plate for simple and fast sealing of cables inserted in the base area of enclosures.

Material:

- Body: Polypropylene
- Cover: Thermoplastic elastomer

Protection category IP to IEC 60 529:

- IP 55 when installed per instructions

Cable per grommet	Max. Ø mm	Packs of	Model No.
8	13	25 pc(s).	4316.000
3	21	25 pc(s).	4317.000
1	47	25 pc(s).	4318.000

Connector grommets

Suitable for cable diameters from 8 to 36 mm.

Material:

- Outer cover: Polypropylene covered with thermoplastic elastomer
- Seal: Cellular rubber

Protection category IP to IEC 60 529:

- IP 55 when installed per instructions

Packs of	Model No.
10 pc(s).	4311.000

Section for cable entry, center for TS, SE, CM, TP

For top-mounting on base plates. The better alternative to a foam cable clamp strip, thanks to:

- Easier mounting
- Full-surface support
- High level of sealing of cables inserted into the enclosure

Material:

- Extruded aluminum section
- Seal: PU foam
- Cross-section: 30 x 25 mm

Protection category IP to IEC 60 529:

- IP 55 when installed per instructions

Note:

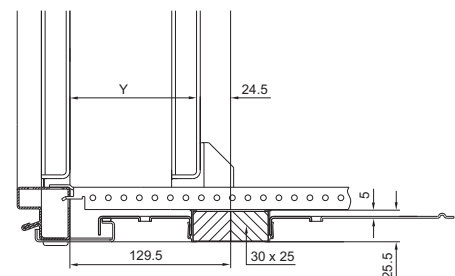
- 1 set is sufficient for one base opening up to an enclosure width of 800 mm, from an enclosure width of 1000 mm upwards, two base openings are present
- Two sets per enclosure may be fitted

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	1 set(s)	8802.060
32 (800)	1 set(s)	8802.080
39 (1000)	2 set(s)	8802.100
47 (1200)	2 set(s)	8802.120
63 (1600)	2 set(s)	8802.160



Accessories:

- Cable clamping rail (angle profile), see page 574
- C rail 30/15, see page 528



Y = mounting plate is depth-adjustable in the 25 mm hole pattern (last hole pattern 30 mm)

Section for cable entry, rear

for TS, SE, CM, TP

Unlike with the section for cable entry, center, the rear section is snap-fastened directly to the base opening. This means that, when installing the mounting plate in the rearmost position (TS), or with CM, the cables may be routed directly to a cable clamping rail without large bending radii. In conjunction with the cable clamping rail, optimum adjustment between the cable entry and mounting plate can be achieved.

Material:

- Extruded aluminum section
- Seal: PU foam
- Cross-section: 30 x 25 mm

Protection category IP to IEC 60 529:

- IP 55 when installed per instructions

Note:

- 1 set is sufficient for one base opening up to an enclosure width of 800 mm, from an enclosure width of 1000 mm upwards, two base openings are present
- 2 sets per enclosure may be fitted

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	1 set(s)	8802.065
32 (800)	1 set(s)	8802.085
39 (1000)	2 set(s)	8802.105
47 (1200)	2 set(s)	8802.125
63 (1600)	2 set(s)	8802.165



Accessories:

- Cable clamp rail, see page 574



Self-adhesive foam cable clamp strip

To seal the cable entry between the base plates. Particularly suitable for cables with identical cross-sections.

Material:

- PU foam
- Cross-section: 30 x 30 mm

Protection category IP to IEC 60 529:

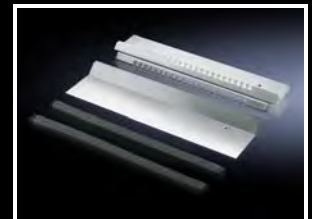
- IP 55 when installed per instructions

Packs of	Model No.
118" (3 m)	2573.000



EMC base plates

see page 552



Cable routing

Flange plates



Plastic cable gland plates

With PG knockouts

With pre-punched PG holes for cable glands.
Use standard flange plate seal.

Temperature range:

– Can be used from -40°F...+158°F

Material:

– ABS

Color:

– RAL 7035

Protection category IP to IEC 60 529:

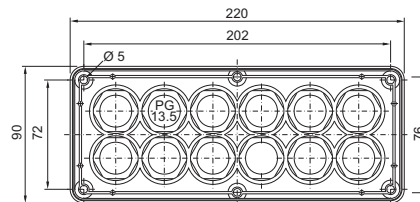
– IP 55 when installed per instructions

Note:

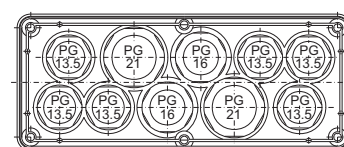
– The applicable size may be taken from the respective product ordering page

Size	PG	Qty.	Packs of	Model No.
2	13.5	12	5 pc(s).	1581.000
	13.5	6	5 pc(s).	1582.000
	16	2		
	21	2		

1581.000



1582.000



Plastic cable flange plates

with membranes

Just pierce the plastic with a sharp point and pull the cable through.

Material:

– Plastic to UL 94-V0

Color:

– Similar to RAL 7035

Protection category IP to IEC 60 529:

– IP 65 with installation per instructions

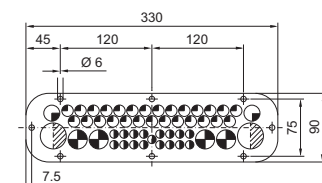
Note:

– The applicable size may be taken from the respective product ordering page

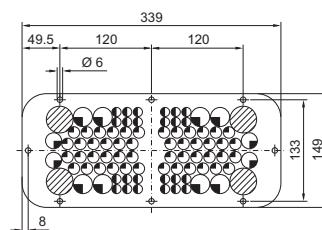
Size	Packs of	Model No.
3	1 pc(s).	2561.500
4	1 pc(s).	2562.500
5	1 pc(s).	2563.500

	Diameter in mm	Number of cable entries for Model No.		
		2561.500	2562.500	2563.500
●	5 – 9	–	–	18
◐	6 – 11	17	–	–
◑	7 – 12	–	24	16
◒	10 – 15	27	48	36
◓	15 – 21	2	4	–
◔	15 – 24	–	–	6
◕	15 – 25	–	8	–
◖	16 – 25	4	–	–
◗	19 – 34	2	–	–
◘	23 – 30	–	–	2
◙	26 – 35	–	4	2
◚	26 – 54	–	–	4
○	50 – 110	–	–	1

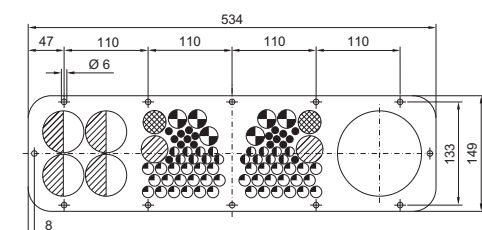
Size 3



Size 4



Size 5



Metal flange (gland) plates

with metric knockouts

Simply knock out the holes for the cable glands with a screwdriver.

Material:

– Carbon steel

Color:

– RAL 7035

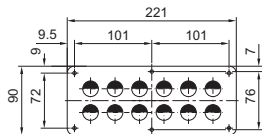
Protection category IP to IEC 60 529:

– IP66 when mounting in the usual position at the bottom

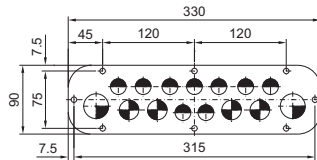
Note:

– The applicable size may be taken from the respective product ordering page

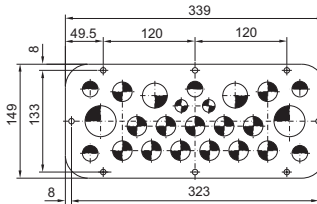
Size 2



Size 3



Size 4



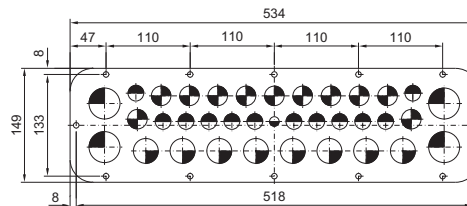
Size	Packs of	Model No.
2	1 pc(s).	1581.100
3	1 pc(s).	2561.100
4	1 pc(s).	2562.100
5	1 pc(s).	2563.100

Number of cable entries

Diameter						Model No.
M12	M16	M20	M25	M32	M40	
–	–	12	–	–	–	1581.100
–	–	9	4	2	–	2561.100
–	2	5	13	2	2	2562.100
1	–	12	11	8	4	2563.100



Size 5



Cable routing

Flange plates



Metal flange (gland) plates

As a spare/replacement part for flange plates supplied loose as standard.

Material:

- Carbon steel

Color:

- RAL 7035

Protection category IP to IEC 60 529:

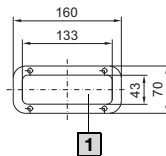
- IP66 when mounting in the usual position at the bottom

Note:

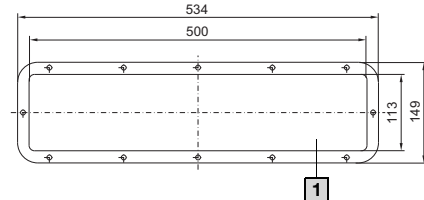
- The applicable size may be taken from the respective product ordering page

Size	Version	Packs of	Model No.
1	Solid	1 pc(s).	2560.400
2	Solid	6 pc(s).	1158.500
3	Solid	1 pc(s).	2561.400
4	Solid	1 pc(s).	2562.400
5	Solid	1 pc(s).	2563.150

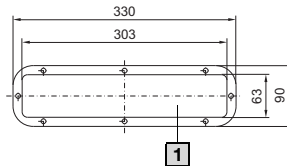
2560.400



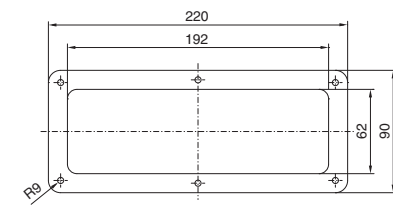
2563.150



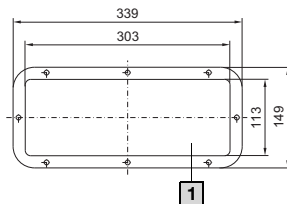
2561.400



1158.500



2562.400



1 Area available for population



Flange plate

for metric, screwed cable glands, for EL

Folded flange plate with foamed-in seal and pre-punched, knock-out holes for metric cable glands M12, M20, M25, M32, M40.

Material:

- Carbon steel, 1.5 mm

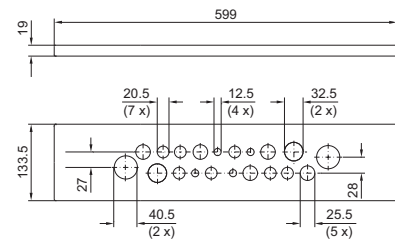
Color:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Packs of	Model No.
1 pc(s).	7705.235



Flange plate

with brush insert, for EL

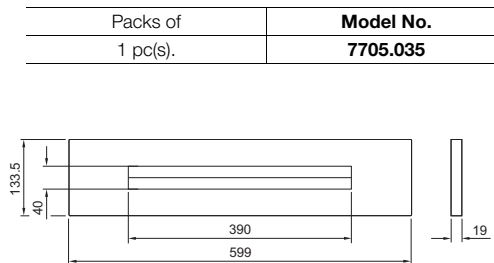
Folded flange plate with foamed-in seal and plastic brush inserts for easy cable entry.

Material:

- Carbon steel, 1.5 mm

Color:

- RAL 7035



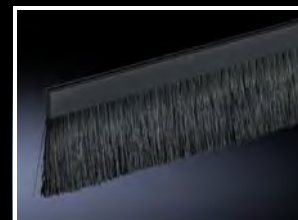
Brush strip

For individual expansion of enclosure panels, flange plates and panels. Cut-outs for cable entry at any position in the side panel, rear wall, doors, roof and base plate can be attractively finished off by simply attaching the brush strip.

Packs of	Model No.
79" (2 m)	7072.200

Technical specifications:

- For plate thickness: 0.6 – 1.5 mm
- Bristle length: 30 mm
- Plastic sheathing: 18 mm
- Snap-on surface: 10 mm
- Maximum cut-out height: 38 mm



Brush strip, super-airtight

For individual expansion of enclosure panels, flange plates and panels. Cut-outs for cable entry at any position in the side panel, rear wall, doors, roof and base plate.

This special brush strip can be used to create airtight entries for cable bundles and conductors. It has alternate offset brush strips, providing an excellent seal with the routed cables, even when large numbers are involved. This reduces unwanted friction losses to a minimum.

Packs of	Model No.
2 x 39" (2 x 1 m)	7825.375

Technical specifications:

- For plate thickness: 1.5 – 2 mm
- Bristle length: 58 mm
- Plastic sheathing: 14 mm
- Snap-on surface: 11.5 mm
- Cut-out width: 88 – 90 mm

Material:

- Plastic, UL 94-V0

Supply includes:

- 1 brush strip each
- 1 m in length, right-hand and left-hand version



Cable routing

Cable gland

HD cable gland

Applications:

- Production and packaging of food and beverages
- Clean room technology (e.g. pharmaceuticals)
- Biotechnology
- Chemical industry

Benefits:

- Smooth, solid exterior surfaces effectively prevent the accumulation of harmful micro-organisms
- Much easier, and therefore cheaper to clean compared with conventional cable glands

Material:

- Cap nut: Stainless steel 1.4305 (AISI 303)
- Seal: Conforms to FDA 21 CFR 177.2600

Protection category IP to IEC 60 529:

- IP 68 (5 bar, 30 min.)

Protection category IP to DIN 40 050-9:

- IP 69K

Standard version

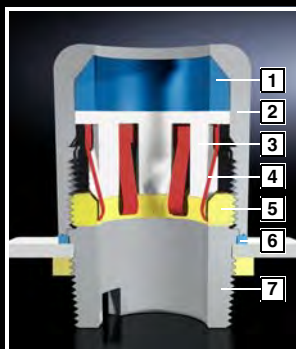
Size	Cable diameter mm	Packs of	Model No.
M12 x 1.5	3 – 6.5	5 pc(s).	2410.000
M16 x 1.5	5 – 10	5 pc(s).	2410.010
M20 x 1.5	6 – 12	5 pc(s).	2410.020
M25 x 1.5	12 – 17	5 pc(s).	2410.030

EMC version

Size	Cable diameter mm	Packs of	Model No.
M16 x 1.5	5 – 10	5 pc(s).	2410.110
M20 x 1.5	6 – 12	5 pc(s).	2410.120
M25 x 1.5	12 – 17	5 pc(s).	2410.130

Note:

- Stainless steel lock nut is not included.
Order separately based on size page 568

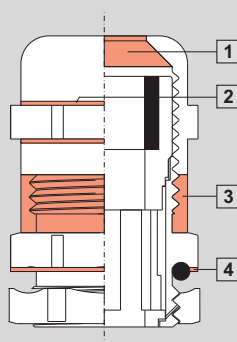


- 1 Seal
- 2 Cap nut
- 3 Clamping jaws
- 4 Shielding clip (EMC version only)
- 5 Clamping ring
- 6 Housing seal
- 7 Pedestal with fixture for mounting tool

Why choose hygiene-compliant cable glands?

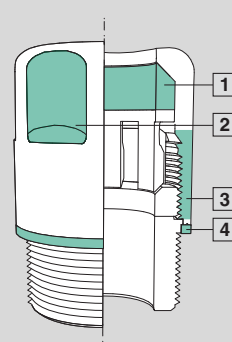
Critical locations with conventional solutions

- 1 Cable entry in front of the seal
- 2 No minimum radii on the hexagon
- 3 External thread
- 4 Split by O-ring on the housing support



Hygiene-compliant design characteristics

- 1 Seal direct at the cable entry
- 2 Compliance with minimum radii on the hexagon
- 3 No external thread
- 4 Flush connection between cap nut and housing



Stainless steel lock nut

To match HD cable glands.

Material:

- Stainless steel 1.4305 (AISI 303)

Size	Packs of	Model No.
M12 x 1.5	10 pc(s).	2410.200
M16 x 1.5	10 pc(s).	2410.210
M20 x 1.5	10 pc(s).	2410.220
M25 x 1.5	10 pc(s).	2410.230

Assembly tool

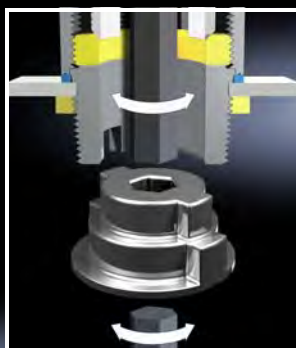
for HD cable glands

To secure HD cable glands in an internal thread or using lock nuts, either from the inside or from the outside using an Allen key.

Supply includes:

- 1 set = Adapter for sizes from M12 – M25

Packs of	Model No.
1 set(s)	2410.290



Cable gland

Connector gland

for connector cut-outs (24-pole)

To route 2 pre-assembled cables through the connector cut-out without disassembling the connector.

Cable diameter: 8 – 36 mm

Material:

- Housing: Plastic
- Clamps: Carbon steel

Surface finish:

- Clamps: Zinc-plated

Supply includes:

- 1 set =
2 half-shells, including seals, with fastening clamp

Packs of	Model No.
1 set(s)	2400.000



Edge protection

To cover the sharp edges of cut-outs. Provides protection from injury and prevents damage to inserted cables. Suitable for material thicknesses of approx. 1.0 – 2.0 mm, and may be cut to length as required.

Material:

- Plastic PVC

Color:

- Black

Packs of	Model No.
394" (10 m)	7072.100



Cable routing

Cable gland



With the “less is more effect”, the connector gland offers significantly less assembly work, a flexible sealing system for various cable diameters and simple routing of pre-assembled lines. Low installation costs, high protection category, flexible cable management – choose the added value offered by the latest generation of Rittal cable entry systems.

Advantages:

- Cable diameter 4 – 16 mm
- Simple routing of pre-assembled lines
- Individual cables can also be retrofitted and replaced without disassembling the sealing frame
- Sealing modules hold to the cable and are secure against loss

Sealing frame

For pre-assembled cables and lines with connectors.

Mounted on 24-pole or 16-pole connector cut-outs in

- Module plates for TS divider panel
- Metal flange plates

Material:

- Frame: Polyamide
- Flat seal: CR

Protection category IP to IEC 60 529:

- IP 64

Protection category NEMA

- NEMA 12

Supply includes:

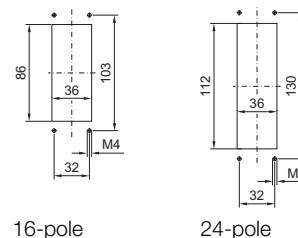
- Assembly components

For modules 0.8 x 0.8 inches (20 x 20 mm)	For cut-out	Packs of	Model No.
10 pc(s).	24-pole	1 pc(s).	2400.900
8 pc(s).	16-pole	1 pc(s).	2400.910



Accessories:

- Module plates for TS divider panel, see from page 455



Sealing modules

To seal cables and lines in conjunction with a sealing frame. 20 x 20 mm and 40 x 40 mm sealing modules can be combined.

Material:

- Hard shell: Polyamide
- Seal: TPE 2

Protection category IP to IEC 60 529:

- IP 64

Protection category NEMA:

- NEMA 12

Sealing modules 0.8 x 0.8" (20 x 20 mm)

Sealing area	Packs of	Model No.
0.16 – 0.24" (4 – 6 mm)	10 pc(s).	2400.920
0.24 – 0.35" (6 – 9 mm)	10 pc(s).	2400.930
Solid	10 pc(s).	2400.970

Sealing modules 1.6 x 1.6" (40 x 40 mm)

Sealing area	Packs of	Model No.
0.35 – 0.47" (9 – 12 mm)	10 pc(s).	2400.940
0.47 – 0.63" (12 – 16 mm)	10 pc(s).	2400.950
Solid	10 pc(s).	2400.960



Cable gland

Connector gland, small

For pre-assembled cables with connectors.

- For use with material thickness of up to 4 mm.
- Cable ties provide strain relief of the pre-assembled cables

Material:

- Plastic

Color:

- RAL 9005

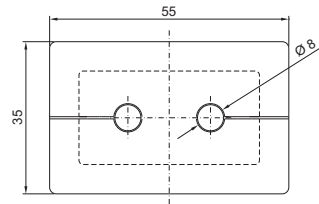
Protection category IP to IEC 60 529:

- IP 65 when installed per instructions

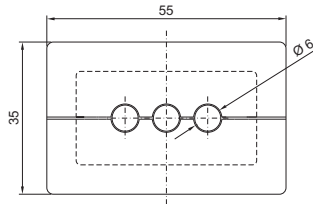
Supply includes:

- Assembly components

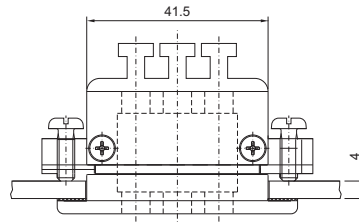
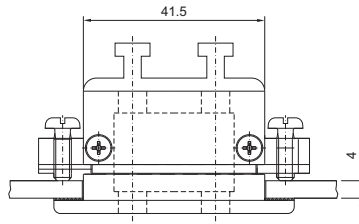
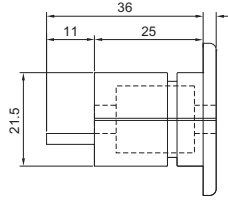
Suitable for	Packs of	Model No.
2 cables Ø 6 – 8 mm	1 pc(s).	2400.300
3 cables Ø 4 – 6 mm	5 pc(s).	2400.500



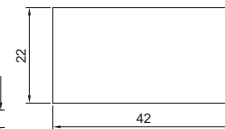
2400.300



2400.500



Mounting cut-out



Cable gland module

for support arm connection Ø 130 mm

Use of the mounting cut-out for the Ø 130 mm support arm connection, round, with housings mounted on the wall, for sealed cable entry. May also be mounted at a later date with the cables already inserted.

Equipped with T-heads for cable clamping. Particularly well-suited to cables with identical cross-sections.

Material:

- Carbon steel

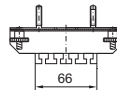
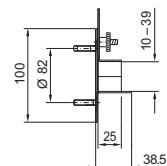
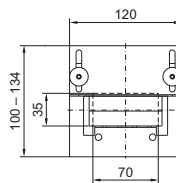
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
1 pc(s).	6052.500



Stepped collar

for wall thicknesses from 1.5 to 4.5 mm

To insert cable, simply cut off at the required level to match the cable diameter.

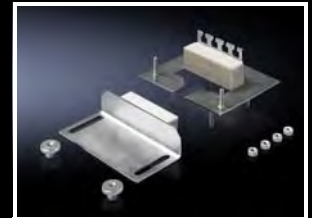
Material:

- Plastic to UL 94-HB

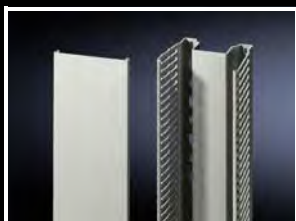
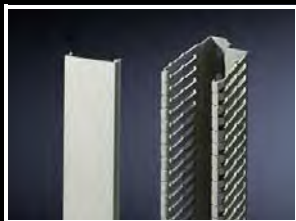
Protection category IP to IEC 60 529:

- IP 54 with installation per instructions

For hole	Sealing area inches (mm)	Packs of	Model No.
M20	0.2 – 0.6 (5 – 16)	100 pc(s).	2899.200
M25	0.2 – 0.8 (5 – 21)	50 pc(s).	2899.250
M32	0.5 – 1 (13 – 26.5)	25 pc(s).	2899.320
M40	0.5 – 1.3 (13 – 34)	20 pc(s).	2899.400



Cable Management



Cable duct

for vertical TS profile

Mounted directly on vertical TS enclosure profile.

Width 50 mm,

for mounting on a vertical enclosure profile in the side panel area.

Width 100 mm,

for mounting on two bayed enclosure profiles in the baying area. Baying brackets and quick-fit baying connectors that have already been fitted can be covered over with the cable duct.

The nominal break points of the bars are designed in combination with the cable ducts for mounting plates, and a further nominal break at the level of the mounting plate allows direct entry to the cable duct.

The cable duct fastening points are co-ordinated with the TS system hole pattern, eliminating time-consuming drilling work as would be necessary with DIN ducts.

Height inches (mm)	Width inches (mm)	Packs of	Model No.
63 (1600)	2 (50)	8 set(s)	8800.570
71 (1800)	2 (50)	8 set(s)	8800.520
63 (1600)	4 (100)	4 set(s)	8800.540
71 (1800)	4 (100)	4 set(s)	8800.510

Technical description:

- Depth: 80 mm
- Length: 1600 mm (for enclosure height 1800 mm)
1800 mm (for enclosure height 2000 mm)
Can be shortened for other enclosure dimensions
- Bar width: 5.5 mm
- Slot width: 4.5 mm

Material:

- Hard PVC
- Flame-resistant, self-extinguishing
- Temperature resistant to +140°F

Color:

- Similar to RAL 7030

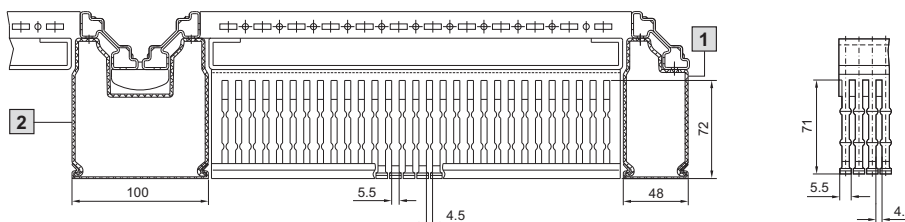
Supply includes:

- 1 set =
1 cable duct with cover



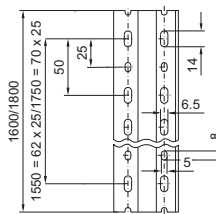
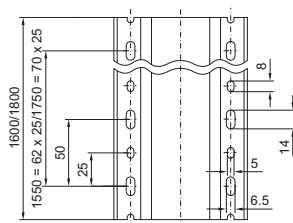
Accessories:

- Aluminum rivet for fastening, see page 573



1 8800.570/8800.520

2 8800.540/8800.510



Cable duct

for mounting plate

- Suitable for the cable ducts for vertical TS profiles
- If the TS mounting plate is installed in the rear-most position, the horizontally mounted cable ducts are flush with the vertical ones
- For external mounting on surfaces

Technical description:

- Depth: 80 mm
- Length: 2000 mm, can be cut to length
- Bar width: 5.5 mm
- Slot width: 4.5 mm

Material:

- Hard PVC
- Flame-resistant, self-extinguishing
- Temperature resistant to +140°F

For enclosure width inches (mm)		Standard length 79" (2000 mm)
Length (L) inches (mm)		
Width (B) inches (mm)	Packs of	Model No.
1.2 (30)	24 set(s)	8800.750
1.6 (40)	20 set(s)	8800.751
2.4 (60)	18 set(s)	8800.752
3.2 (80)	12 set(s)	8800.753
4 (100)	12 set(s)	8800.754

Color:

- Similar to RAL 7030

Supply includes:

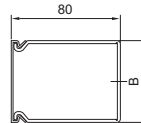
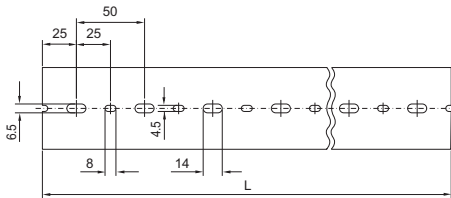
- 1 set =
1 cable duct with cover



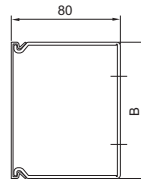
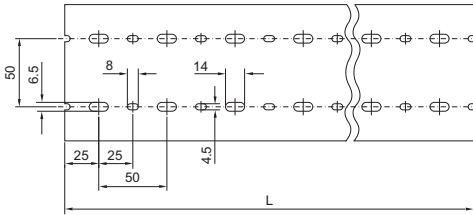
Accessories:

- Aluminum rivet for fastening, see page 573

Width 30, 40 and 60 mm



Width 80 and 100 mm



Aluminum rivet

For the secure mounting of cable ducts. Also for fastening support rails and punched rails.

Suitable for

- TS system punchings
- Holes Ø 4.5 mm

Packs of	Model No.
100 pc(s).	8800.531



Accessories:

- Cable ducts for vertical TS profile, see page 572
- Cable ducts for mounting plate, see page 573



Cable Management



Cable clamp rails

Angle profile

for TS, SE, PC, TS base/plinth, Flex-Block

Provides strain relief for cable entries. Depth-variable mounting in 25 mm hole pattern on the horizontal enclosure profile or in the TS base/plinth/Flex-Block.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Enclosure width inches (mm)	Length inches (mm)	Packs of	Model No.
16 (400)	15 (385)	2 pc(s).	4193.000
24 (600)	23 (585)	2 pc(s).	4191.000
32 (800)	31 (785)	2 pc(s).	4192.000
39 (1000)	39 (985)	2 pc(s).	4336.000
47 (1200)	47 (1185)	2 pc(s).	4196.000
63 (1600)	62 (1585)	2 pc(s).	4338.000
71 (1800)	70 (1785)	2 pc(s).	4339.000



Accessories:

- Fastening bolts for TS base/plinth, see page 430
- Quick-assembly block 4133.000 for Flex-Block, see page 536
- 23 x 23 mm punched rails for Flex-Block, see page 527



Cable clamps

for cable clamp rails

To fasten cables to cable clamp rails.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Plastic insert



For cable diameter mm	Packs of	Model No.
6 – 12	25 pc(s).	2350.000
12 – 16	25 pc(s).	2351.000
14 – 18	25 pc(s).	2352.000
18 – 22	25 pc(s).	2353.000
22 – 26	25 pc(s).	2354.000
26 – 30	25 pc(s).	2355.000
30 – 34	25 pc(s).	2356.000
34 – 38	25 pc(s).	2357.000
38 – 42	25 pc(s).	2358.000
42 – 46	25 pc(s).	2359.000
46 – 50	25 pc(s).	2360.000



Possible alternative:

- Rails for EMC cable clamp and strain relief, see page 551



Cable clamp rails

C rail, for mounting plates

for TS, SE, CM, TP

Provides strain relief for cable entries.

The length of the cable clamp rail is matched to the width of the mounting plate. Three different installation scenarios are possible on the mounting plate using the mounting brackets included with the supply:

- 1 straight, at a distance of 23 mm from the mounting plate
- 2 straight, at a distance of 10 mm from the mounting plate
- 3 inclined, towards the mounting plate

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

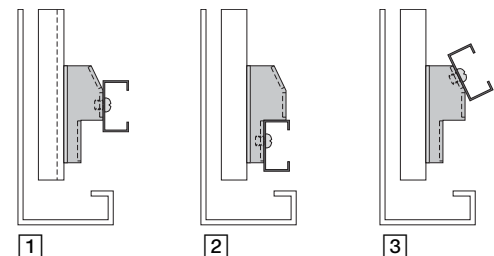
- Two mounting brackets and assembly screws

For enclosure width inches (mm)	Length inches (mm)	Packs of	Model No.
24 (600)	20 (499)	1 pc(s).	5001.080
32 (800)	28 (699)	1 pc(s).	5001.081
39 (1000)	35 (899)	1 pc(s).	5001.082
47 (1200)	43 (1099)	1 pc(s).	5001.083



Accessories:

- Cable clamps for C rails, see page 575



Cable clamping bracket

For installation in command panel with
□ 120 x 65 mm and 130 mm mounting cut-out.
Cable clamping either using

- Cable clamps
- or
- Cable ties 2597.000
- Standard cable ties

Bracket height = 25 mm with fitted C rail 40 mm

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- C rail and assembly screws

Packs of	Model No.
1 set(s)	6052.000



Accessories:

- Cable clamps, see page 575
- Cable ties, see page 576



Cable clamps

for C rails

To fasten cables to the C rails.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

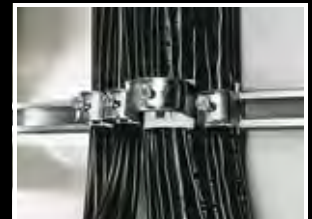
- Plastic insert

For cable diameter mm	Packs of	Model No.
6 – 14	25 pc(s).	7077.000
12 – 18	25 pc(s).	7078.000
18 – 22	25 pc(s).	7097.000
22 – 26	25 pc(s).	7097.220
26 – 30	25 pc(s).	7097.260
30 – 34	25 pc(s).	7097.300
34 – 38	25 pc(s).	7097.340
38 – 42	25 pc(s).	7098.000
42 – 56	25 pc(s).	7098.100
56 – 64	25 pc(s).	7099.000



Accessories:

- C rails, see page onwards 528



Cable conduit and cable conduit holder

For secure cable routing e.g. from the enclosure or mounting plate to the door. A fastening facility is provided on the cable conduit holder for standard, commercially available cable ties, which can fasten the cables upon entry to/exit from the cable conduit.

Material:

- Cable conduit: Polyethylene
- Cable conduit holder: Polyamide

Cable conduit

Ø internal mm	Packs of	Model No.
16	984" (25 m)	2595.000
29	984" (25 m)	2589.000
36	984" (25 m)	2596.000
48	984" (25 m)	2590.000

Cable conduit holder

For cable conduit Ø mm	Packs of	Model No.
16	20 pc(s).	2593.000 ¹⁾
29	20 pc(s).	2591.000 ¹⁾
36	20 pc(s).	2594.000
48	20 pc(s).	2592.000

¹⁾ Installation in AE compact enclosures with universal bracket 2373.000, see page 537



Cable Management



Cable attachment

For professional, secure fastening of cables and conduits.

To mount

- slide into 23 x 23 mm punched rail
- screw into round punchings in the enclosure and to all types of punched rail or chassis

Material:

- Polyamide

Note:

- The attachments can be bayed to allow several fastening attachments, even those of different sizes, to be assembled using just two screws

For cable diameter from – to mm	Packs of	Model No.
6 – 9	50 pc(s).	4319.090
9 – 12	50 pc(s).	4319.120
12 – 16	50 pc(s).	4319.160
16 – 20	50 pc(s).	4319.200



Also required:

- M5 x 12 mm countersunk screw, 2488.000, screwed to the round system punchings, see page 539



Accessories:

- 23 x 23 mm punched rail, see page 527



Cable ties

Bundles and fastens cables to the enclosure section or mounting system parts. Simply clip into the round system punchings.

Length inches (mm)	Packs of	Model No.
6 (150)	100 pc(s).	2597.000



Hook and loop fastener

The hook and loop fastener allows for easy release of secured cables and individual cables can be added or removed. Ideal for sensitive data cables (fiber optic/Cu), prevents cable sheathing indentation.

The hook and loop fastener can also be screwed to the round system punchings or attached with quick-release fasteners.

Color:

- Black

Supply includes:

- Quick-release fasteners

Width inches (mm)	Length inches (mm)	Max. cable diameter mm	Packs of	Model No.
0.8 (20)	5 (130)	30	10 pc(s).	7072.220
0.8 (20)	8 (200)	50	10 pc(s).	7072.230
0.8 (20)	12 (300)	90	10 pc(s).	7072.240



Also required:

- Sheet metal screw, 2486.500, screwed to the round system punchings, see page 539



Hook and loop strap

Provides for organized cable routing. Supplied on a reel, can be cut to the required length.

In contrast to cable ties

- protects the cable sheathing
- easy to undo
- reusable

Length inches (mm)	Width inches (mm)	Packs of	Model No.
197 (5000)	0.6 (16)	1 pc(s).	2203.400

Quarter turn hook and loop fastener

- For simple, fast cable attachment
- Tool-free mounting in the system punchings with 10.5 x 12.5 mm, with a quarter rotation
- Direct use on the horizontal TS frame profile, on the depth stays and TS IT profile rails for 19" interior fittings, on the cable tray or system chassis
- Length of hook and loop strap: 420 mm

Material:

- Plastic

Supply includes:

- 10 holders including hook and loop tape

Packs of	Model No.
10 pc(s).	9969.599



Snap-in cable routing

for clipping into the system punchings

Universally applicable cable routing for fast, tool-free assembly.

Latches into place

- user-friendly opening for cable management using clips
- for cable diameters from 14 to 19 mm
- for 6.2 mm system punchings

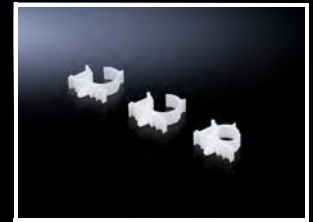
Material:

- Polyamide 6.6, self-extinguishing to UL 94-V2

Color:

- Natural

Type	Packs of	Model No.
Latches into 6.2 mm system punchings	10 pc(s).	7111.300



Cable manager

- For system-compatible cable deflection in compliance with minimum bending radii, and to accommodate surplus cables and excess length. The elements may optionally be used individually or in combination for cable routing. They can be combined to make semicircular or circular elements.
- Supports use on corners and edges to allow protected cable routing around them
- Mounting clips for use above the arc hold the routed cables back within the elements. The elements are bayable in an axial direction to allow U-based cable routing to the mounting level, or channeling of the bundled cables.

Material:

- Plastic, UL 94-V0

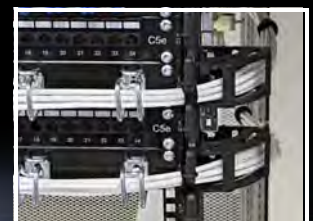
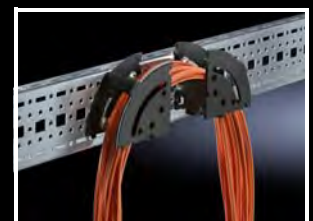
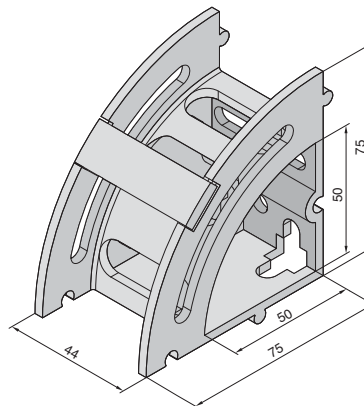
Color:

- RAL 9005

Supply includes:

- Mounting clips and assembly components

	Packs of	Model No.
Maxi kit	20 pc(s).	5502.405



Cable Management



Roof cable manager

Allows for easy cable routing outside the enclosure. Tool-free fixing to roof using 2 snap-on rings and existing cable entries on the enclosure roof. The square system punchings enables the use of cable management retaining claws and rings.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

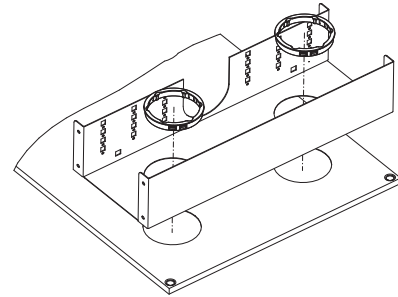
- Black



Also required:

- End covers 9970.260, see page 578

Width inches (mm)	Packs of	Model No.
24 (600)	1 pc(s).	9970.254



Roof cable manager

Designed for the installation of a cable routing bar conductor

Allows for easy cable routing outside the enclosure. Tool-free fixing to roof using 2 snap-on rings and existing cable entries on the enclosure roof. The square system punchings enables the use of cable management retaining claws and rings. Designed for the installation of a cable routing bar conductor.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

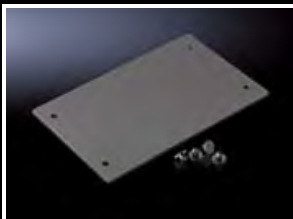
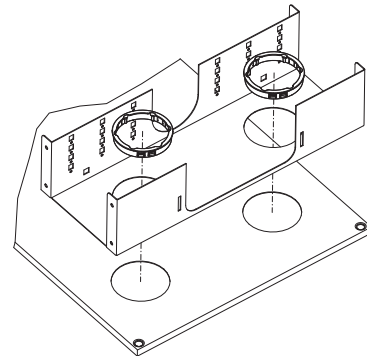
- Black



Also required:

- End covers 9970.260, see page 578

Width inches (mm)	Packs of	Model No.
28 (700)	1 pc(s).	9970.266



End covers

for roof cable manager

Tool-free fixing of end covers for roof cable manager.

Material:

- Carbon steel

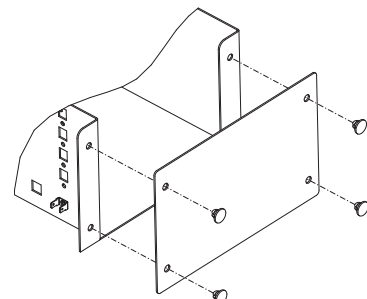
Surface finish:

- Textured paint

Color:

- Black

Packs of	Model No.
2 pc(s).	9970.260



Cable routing bracket

For flexible, system-compatible cable routing on the side of 19" (482.6 mm) profile rails.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Mounting accessories

Dimensions inches (mm)	Packs of	Model No.
5 x 3 (125 x 85)	10 pc(s).	7111.900
5 x 3 (125 x 65)	10 pc(s).	7111.000
3 x 2 (85 x 43)	10 pc(s).	7112.000



Routing bracket

To accommodate large quantities of cables.
Routing bracket for side fastening to 19" (482.6 mm) profiles in 800 mm wide network enclosures.
The bracket is attached asymmetrically, creating approx. 110 mm of free space in front of the 19" level. This allows even large quantities of cables to be effectively managed.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Dimensions inches (mm)	Packs of	Model No.
13 x 4/3 (330 x 90/70)	4 pc(s).	7220.600



Cable management panel

for TS, TS IT

For cable management and the storage of cables in the zero-U-space. Several fastening points for cable management accessories using tool-free quick-release fastening and PDU mounting locations. The panel is securely fastened to the frame.

Material:

- Carbon steel

Surface finish:

- Textured paint

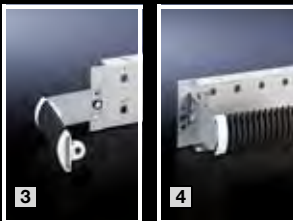
Color:

- RAL 9005

Dimensions inches (mm)	Packs of	Model No.
79 x 8.5 (2000 x 215)	10 pc(s).	9978.360
87 x 8.5 (2200 x 215)	10 pc(s).	9978.361



Cable Management



Fiber optic routing brackets

Fiber optic shunting or jumper cables can be inserted into the grooves of the inner body. A rubber ring holds different fiber optic cables with diameters of up to 4.5 mm. This ensures strain relief and bending radius.

Length: 120 mm

Material:

- Dual compound plastic

Color:

- Exterior: RAL 7035
- Interior: Black

Supply includes:

- 2 rubber bands
- Baying kit
- Mounting accessories

Mounting:

The supplied mounting brackets are suitable for universal use; the fiber-optic cables can be routed to the patch panel in all directions in various mounting positions:

- 1 At the side directly on the patch panel
- 2 In front of the patch panel
- 3 At the side next to the patch panel
- 4 Behind the patch panel

Packs of	Model No.
2 pc(s).	7116.500



Possible alternative:

- Fiber optic cable management panel, 1 U, see page 586



Cable route

for TS

- For cable clamping and routing for network and server applications
- Mounting across the entire depth with 800 mm width, with 600 mm width mounting only behind the second 19" level
- Tool-free quick assembly
- Alternatively suitable for screw-fastening
- Multi-functional punchings for cable management accessories

Material:

- Carbon steel

Color:

- RAL 9005

Height inches (mm)	Packs of	Model No.
79 – 87 (2000 – 2200)	1 pc(s).	5502.120



Accessories:

- Cable ties, see page 576
- Hook and loop strap, see page 576
- Routing bracket, see page 579
- Cable routing bars, see page 582

Surplus cable holder

Fastened at the rear of the enclosure, or on the side of network enclosures. The surplus cable holder can be attached to any depth stay or chassis and rails with a 25 mm hole pattern with mounting dimensions of 150 mm. Elements may also be joined together.

Material:

– Carbon steel

Color:

– RAL 7035

H x W x D inches (mm)	Packs of	Model No.
6 x 11 x 3 (151 x 280 x 75)	1 pc(s).	7220.500



Cable Management

19" cable routing



Cable routing bars

For structured routing of bundled cables. The cable routing bars may be secured in a variety of different positions inside the enclosure.

Material:

- Support: Carbon steel
- Cable routing bars, connection combs: Plastic

Color:

- RAL 9005

Supply includes:

- Cable routing bars
- Connection combs

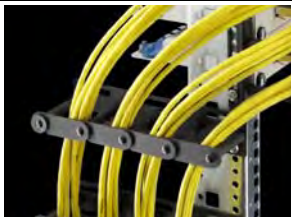


19" attachment

For horizontal cable routing within the distributor level.

Thanks to their open mounting holes, they can also be retrospectively slotted onto the 19" system punchings of the mounting level at any time and secured with the existing mounting screws of the installed components.

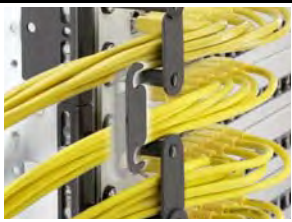
U	No. of connection combs	Packs of	Model No.
1	5 pc(s).	10 pc(s).	7111.214



All-round attachment for universal use

For vertical and horizontal cable routing inside the housing or within the distributor level.

U	No. of connection combs	Packs of	Model No.
1	5 pc(s).	10 pc(s).	7111.212



Connection comb

For connection of individual cable routing bars throughout systems (included with the supply).



Cable duct

for TS IT

- High packing density due to U-based cable routing
- Hinged on both sides, removable cable cover
- Suitable for back-to-back baying
- Tool-free quick-release fastening allows for easy installation at the front and rear of the 19" mounting profile of the TS IT
- Can optionally be screw-fastened

Material:

- Carbon steel, plastic UL 94-V0

Color:

- RAL 9005

Supply includes:

- Cover and assembly components
- 4 cable retainers for spare cables

For enclosure height inches (mm)	U	Packs of	Model No.
79 (2000)	36	1 pc(s).	5502.105
87 (2200)	42	1 pc(s).	5502.145



6 U cable finger

for TS IT

- For U-based cable routing
- Simple, tool-free assembly
- Cable routing in conjunction with air baffle plates is supported

Material:

- Plastic UL 94-V0

Color:

- RAL 9005

Packs of	Model No.
14 pc(s).	5502.115



Cable management duct, horizontal

With hinged/removable cover

Attached to the 19" (482.6 mm) level and allows for side cable routing. Available in 1 U.

Material:

- Plastic

Supply includes:

- Assembly components

Cable diameter sq. in. (mm ²)							Packs of	Model No.
0.15 (260)	0.17 (202)	0.19 (162)	0.21 (132)	0.23 (110)	0.25 (93)	0.27 (80)	2 pc(s).	9969.736



19" drawer

To accommodate surplus cables

The 1 U drawer is a convenient option for storing excess cable lengths in an organized, compact and secure way within the 19" levels.

- With brush strip at the front for cable entry
- T-head rail in the rear section for cable clamping
- Ring-shaped kink-free routing of the conductors on adjustable elements in the interior
- May be fitted between two 19" levels at a distance of 435 – 750 mm
- Independent of the enclosure system
- Can be mounted on both L and right-angled profile rails and mounting frames

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

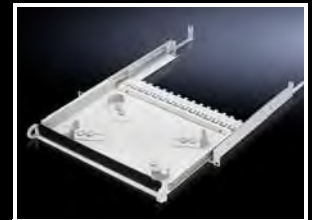
- Drawer incl. telescopic slides and assembly components

Distance between levels inches (mm)	Packs of	Model No.
17 – 30 (435 – 750)	1 pc(s).	7063.200



Accessories:

- Hook and loop fastener 7072.220/7072.230, see page 576



Cable management panel

19" (482.6 mm)

Material:

- Panel: Carbon steel, spray-finished
- Bracket: Polycarbonate

Color:

- RAL 7035

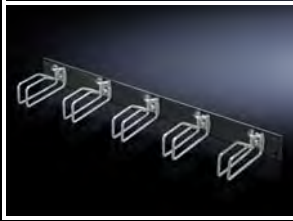
U	Bracket size inches (mm)	Packs of	Model No.
1	4 x 2 (95 x 50)	1	7255.035¹⁾

¹⁾ Cable routing brackets supplied loose



Cable Management

19" cable routing



Cable management panel

With steel brackets

For horizontal management of patch cables, with 5 cable routing brackets.

Material:

- Panel: Carbon steel
- Bracket: Steel

Surface finish:

- Brackets: Zinc-plated

U	Bracket size inches (mm)	Color		Packs of	Model No.
		RAL 7035	RAL 9005		
1	1.7 x 2.2 (43 x 55)	–	■	1 pc(s).	5502.205
1	1.7 x 4.1 (43 x 105)	■	–	1 pc(s).	7257.035
1	1.7 x 4.1 (43 x 105)	–	■	1 pc(s).	7257.005
2	2.4 x 4.9 (85 x 125)	■	–	1 pc(s).	7257.100
2	2.4 x 4.9 (85 x 125)	–	■	1 pc(s).	7257.105

Cable management bar

Tool-free installation

Adjustable bar, 15¾" to 24½", mounted on EIA rails, allows for cable routing from front to rear. Uses quarter turn cable accessories (not included) in the zero U space for a stand alone 800 mm wide or bayed 700 mm wide enclosure.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

- Black

Packs of	Model No.
1 pc(s).	9967.364

Note:

- The optional holder in the supply can be used if other cable management accessories are used in the same U-space.

Quarter-turn cable collection

Collection claw provides for organized cable routing and can be mounted on the enclosure frame or the EIA rails.

Material:

- Plastic

Width x depth inches (mm)	Packs of	Model No.
3.00 x 4.45 (76.2 x 113)	10 pc(s).	9969.600

Quarter-turn D-ring

Provides for organized cable routing and can be mounted on the enclosure frame or on the side of EIA rails.

Material:

- Plastic

Width x depth inches (mm)	Packs of	Model No.
5.00 x 3.50 (127 x 88.9)	10 pc(s).	9961.780
3.50 x 1.75 (88.9 x 44.5)	10 pc(s).	9961.779

Cable management panel with cable routing bars

19" (482.6 mm)

For horizontal management of patch cables with cable routing bars. Opening the individual cable routing bars makes it easy to modify and extend the cabling.

Color:

RAL 9005

Material:

- Panel: Carbon steel, spray finished
- Cable routing bars: Plastic

U	Bar depth inches (mm)	Number of bars/U	Packs of	Model No.
1	approx. 3 (80)	5	1 pc(s).	5502.225



Cable management panel, 2 U

19" (482.6 mm)

The cable routing compartment is provided with cut-outs at the top, and the patch cables can be inserted here. The cable management panel is fitted with a flap and quick-release fasteners at the front, for optimum cable access. Cables can be fed in from the rear through the cut-out with brush strips.

Color:

RAL 9005

Material:

- Carbon steel

U	Bar depth inches (mm)	Packs of	Model No.
2	3 (85)	1 pc(s).	5502.235



Cable routing channel

19" (482.6 mm)

To hold patch cables.

Material:

- Carbon steel

U	Depth inches (mm)	Color		Packs of	Model No.
		RAL 7035	RAL 9005		
1	3 (85)	■	–	1 pc(s).	7149.135
1	3 (85)	–	■	1 pc(s).	5502.245



Cable Management

19" cable routing



Fiber optic cable management panel, 1U

19" (482.6 mm)

The four fiber optic cable routing brackets integrated in the front panel permit optimum management of up to 48 fibers.

Material:

- Panel: Carbon steel
- Bracket: Dual compound plastic

Color:

- Panel: RAL 7035
- Cable routing brackets on the outside: RAL 7035, black interior

U	Packs of	Model No.
1	1 pc(s).	7256.035



Possible alternative:

- Fiber optic routing bracket 7116.500, see page 580



Cable entry panel

19" (482.6 mm)

390 x 40 mm (2 U) or 390 x 20 mm (1 U) cut-out with brush insert.

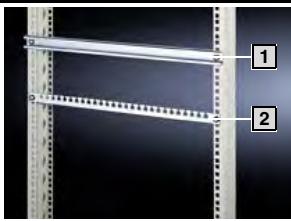
Material:

- Carbon steel

Color:

- RAL 9005

U	Packs of	Model No.
1	1 pc(s).	5502.255
2	1 pc(s).	5502.265



Cable routing on the 19" (482.6 mm) mounting level

For system-compatible cable routing on 19" (482.6 mm) assembly systems with one or two mounting levels, various cable clamping systems are available:

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

1 C rail

fastened across all 19" (482.6 mm) mounting levels, for cable clamps

C rail	Packs of	Model No.
19" (482.6 mm) level	6 pc(s).	7016.100

2 Cable clamp rails

fastened across all 19" (482.6 mm) mounting levels, for cable ties

Cable clamp rail	Packs of	Model No.
19" (482.6 mm) level	6 pc(s).	7016.110

19" installation system

Pivoting frame

Pivoting frame, small

Installation for TS, SE, 600 mm and 800 mm wide enclosures

To mount 19" (482.6 mm) equipment.

Material:

– Carbon steel

Surface finish:

– Zinc-plated

Supply includes:

– Cam with double-bit lock insert and parts for attaching to the installation kit

Technical details:

Available on the Internet



Expansion	Front, top/bottom	Set back, top/bottom	Set back/ front, center
U	Packs of	Model No.	
3	1 pc(s).	2377.030	
6	1 pc(s).	2377.060	
9	1 pc(s).	2377.090	
12	1 pc(s).	2377.120	
15	1 pc(s).	2377.150	
18	1 pc(s).	2377.180	

Also required:

1 Installation kit		For enclosure width, inches (mm)	
		24 (600)	32 (800)
		2377.860	2377.880
2 PS punched section without mounting flange, 2 or 4 pcs. required	for enclosure depth inches (mm)		Page
	16 (400)	4 pc(s).	4374.000 527
	20 (500)	4 pc(s).	4375.000 527
	24 (600)	4 pc(s).	4376.000 527
	32 (800)	4 pc(s).	4377.000 527
Support bracket 2 pcs. required per PS punched section without mounting flange		6 set(s)	8800.330 535

Accessories

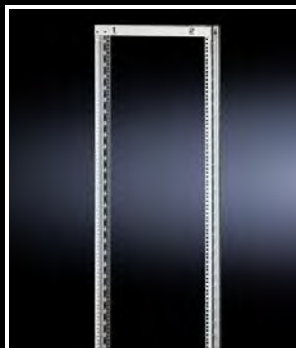
Lock inserts, version D		2484.000	488
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Note:

– The swing frame stay is required to lock the open swing frame, see page 590

19" installation system

Pivoting frame



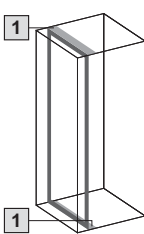
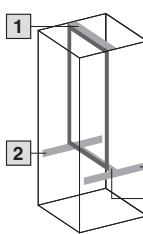
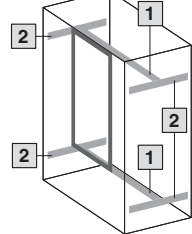
Pivoting frame, large
without trim panel, for 600 mm and 1200 mm wide enclosures
To mount 19" (482.6 mm) equipment.

Material:
– Carbon steel

Surface finish:
– Zinc-plated

Supply includes:
– Cam with double-bit lock insert and parts for attaching to the installation kit

Technical details:
Available on the Internet

Expansion	Full installation, front/set back	Partial installation top, front/set back	Partial installation center, front/set back
			

For enclosure width, inches (mm)			
U	For min. enclosure height, inches (mm)	Packs of	Model No.
22	47 (1200)	1 pc(s).	2322.700
31	63 (1600)	1 pc(s).	2331.700
36	71 (1800)	1 pc(s).	2336.700
40	79 (2000)	1 pc(s).	2340.700
45	87 (2200)	1 pc(s).	2345.700

Accessories			Page
Lock inserts, version D			488

Also required:

1 Installation kits					
For enclosure		Hinge	Load		Packs of
TS	SE				
■	■	130°	< 1500 N ²⁾	1994.835	–
■	■	130°	< 1500 N ²⁾	–	1996.835
■	■	130°	< 1500 N ¹⁾	–	1996.535

¹⁾ Installation only possible with the mounting plate slide rail dismantled.

²⁾ Maximum load 800 N with the TS mounting plate slide rail dismantled.

2 For TS, SE:
TS system chassis 23 x 73 mm, 2 or 4 pcs. required

Installation in enclosure depth inches (mm)	Packs of	Model No.	Page
16 (400)	4 pc(s).	8612.040 ¹⁾	522
20 (500)	4 pc(s).	8612.550	523
24 (600)	4 pc(s).	8612.560	523
32 (800)	4 pc(s).	8612.580	523
39 (1000)	4 pc(s).	8612.500	523
47 (1200)	4 pc(s).	8612.520	523

¹⁾ TS system chassis 17 x 73 mm

Note:

– The swing frame stay is required to lock the open swing frame, see page 590

19" installation system

Pivoting frame

Pivoting frame, large

with trim panel, for 800 mm wide enclosures
To mount 19" (482.6 mm) equipment.

Material:

– Carbon steel

Surface finish:

– Frame: Zinc-plated
– Panel: Spray-finished

Color:

– RAL 7035

Supply includes:

– Including locking rod system with double-bit lock insert and parts for attaching to the installation kit

Technical details:

Available on the Internet

Expansion	Full installation, Width = 32" (800 mm), front/set back	Partial installation top, Width = 32" (800 mm), front/set back	Partial installation center (in the height), Width = 32" (800 mm), front/set back

Installation location	Side	Center

With hinge	130°/180°	180°
------------	-----------	------

For enclosure width, inches (mm)			32 (800)	
U	For min. enclosure height inches (mm)	Packs of	Model No.	
22	47 (1200)	1 pc(s).	2323.235	2324.235
31	63 (1600)	1 pc(s).	2332.235	–
36	71 (1800)	1 pc(s).	2337.235	2338.235
40	79 (2000)	1 pc(s).	2341.235	2342.235
45	87 (2200)	1 pc(s).	2346.235	2347.235

Heavy-duty version¹⁾

U	For enclosure height inches (mm)	Packs of	Model No.	
40	79 (2000)	1 pc(s).	7858.100	–

Accessories

Ergoform-S Lock Systems	see page 486
Lock inserts, version A	see page 488

Also required:

1) Installation kits					
For enclosure		Hinge	Load		Packs of
TS	SE				
■	■	130°	< 1500 N ³⁾	1995.235	1 set(s)
■	■		< 1500 N ²⁾	1995.835	1 set(s)
■	■	180°	< 1200 N ³⁾	1997.235	1 set(s)
■	■		< 1200 N ²⁾	1997.835	1 set(s)

¹⁾ Load capacity 771.6 lb (350 kg), including installation kit, for enclosure height 79" (2000 mm)

²⁾ Installation only possible with the mounting plate slide rail dismantled.

³⁾ Maximum load 800 N with the TS mounting plate slide rail dismantled.

2) For TS, SE: TS system chassis 23 x 73 mm,
2 or 4 pcs. required

Installation in enclosure width/depth inches (mm)	Packs of	Model No.	Page
16 (400)	4 pc(s).	8612.140 ¹⁾	522
20 (500)	4 pc(s).	8612.550	523
24 (600)	4 pc(s).	8612.560	523
32 (800)	4 pc(s).	8612.580	523
39 (1000)	4 pc(s).	8612.500	523
47 (1200)	4 pc(s).	8612.520	523

¹⁾ TS system chassis 17 x 73 mm

Note:

– The swing frame stay is required to lock the open swing frame, see page 590



19" installation system

Pivoting frame



Compact pivoting frame

for AE

To install slide-in electronic equipment, 19" (482.6 mm), across the entire height.

Technical description:

- Torsionally stiff frame, welded from rectangular tube and triple-folded support section

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Double-bit lock insert and installation accessories

Height inches (mm)	15 (380)	24 (600)	30 (760)
Width inches (mm)	24 (600)	24 (600)	24/30 (600/760)
U	6	11	14
Packs of	1 pc(s).	1 pc(s).	1 pc(s).
Model No.	2026.200	2027.200	2034.200



Accessories:

- Lock insert 41 mm, version C, see page 488

Technical details:

Available on the Internet



Swing frame stay

Holds the swing frame in the open position.

For mounting on swing frame, large:

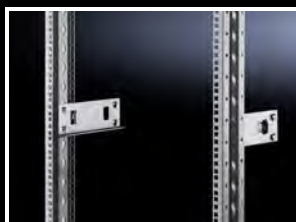
- 1979.200, at the top of the enclosure
- 1980.200, at the top of the enclosure (with safety catch at 160°)

	Packs of	Model No.
with 130° hinge	5 pc(s).	1979.200
with 180° hinge	1 pc(s).	1980.200



For mounting on swing frame, small:

- 1979.200, can be mounted at top or bottom on the installation kit



Slide rails

To support heavy slide-in electronic equipment, 19" (482.6 mm) in the swing frame.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

For slide-in equipment with max. installation depth	Packs of	Model No.
D max. < 8" (190 mm)	10 pc(s).	1962.200
D max. > 8" (190 mm)	10 pc(s).	1963.200

19" Installation System

Accessories for Data Rack

Second Mounting Level

To accommodate 482.6 mm (19") network components or to mount component shelves and slide rails. 19" (482.6 mm) profiles holes at the front, hole center-to-center spacing 465 mm, rear 470 mm, designed for the attachment of patch panels and cable routing rails. The mounting level can be positioned in the 50 mm hole pattern. Minimum clearance between levels 150 mm, maximum clearance between levels 350 mm.

Material:

- Carbon steel, 2 mm

Color:

- RAL 7035

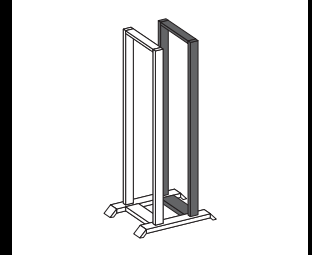
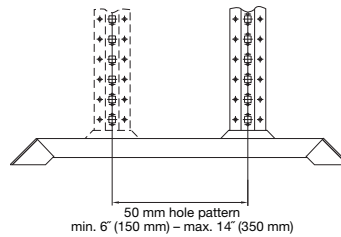
Supply includes:

- 1 torsionally stiff profile frame
- Mounting accessories

U	Packs of	Model No.
31	1 pc(s).	7296.000
36	1 pc(s).	7297.000
40	1 pc(s).	7298.000
45	1 pc(s).	7299.000

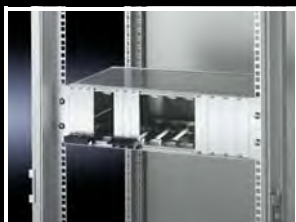
Technical details:

Available on the Internet



19" Installation System

Profile rails



Adapter profile, 19" (482.6 mm)

for TS

For the installation of subracks and other equipment.

Adapter profiles are easily shortened for partial assemblies.

Supply includes:

- Assembly components

Note:

- The 19" (482.6 mm) measurement is obtained when mounting on the TS frame for enclosures with width 600 mm



Accessories:

- Infill panels, see page 593
- Captive nuts, see page 538
- Assembly screws, see page 539
- Slide rails with one-sided mounting, see page 597
- Slide rails with two-sided mounting, see page 597
- Component shelf installation kit, see page 600

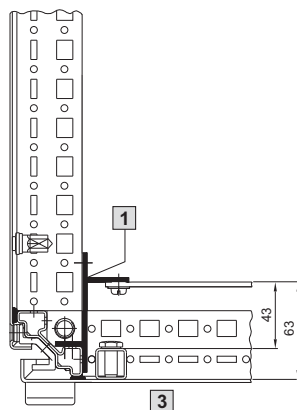
For TS enclosure system¹⁾

For enclosure height inches (mm)	Material	U	Packs of	Model No.
63 (1600)	Extruded aluminum section	33	4 pc(s).	8613.060
71 (1800)		38	4 pc(s).	8613.080
79 (2000)		42	4 pc(s).	8613.000

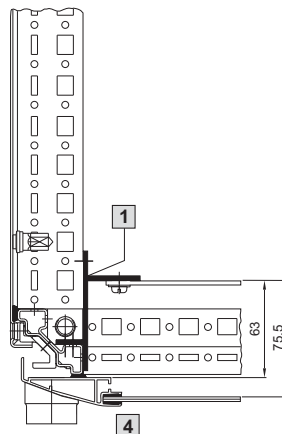
¹⁾ For rear installation in electronic enclosure, see page 593

Mounting examples for TS:

Drawing 1



Drawing 2

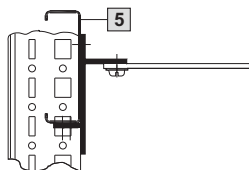


Drawing 1 and 2:

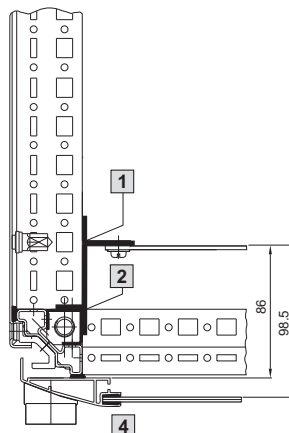
Adapter profile or adapter piece mounted in foremost installation position directly on the vertical profile.

If slide rails with two-sided mounting (see page 597) are installed, the same profiles or adapter pieces also need to be mounted at the rear on the vertical profile.

Drawing 3



Drawing 5



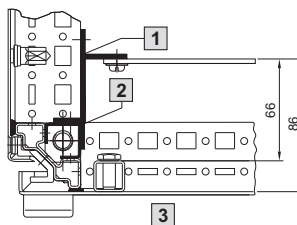
Drawing 3:

When mounted on 2 vertically installed PS punched sections, there is complete flexibility in how the enclosure depth is used.

Drawing 4 and 5:

Greater clearance to the door can be created when mounted on adapter rails for PS compatibility. In this position the slide rails can be installed with one-sided mounting.

Drawing 4



- 1 Adapter profile/piece
- 2 Adapter rail
- 3 TS carbon steel door

- 4 TS glazed door
- 5 Punched section without mounting flange

Adapter pieces, 19" (482.6 mm)

for TS, SE

"1 U" part for adapter profiles.

For the installation of individual sub racks and other equipment.

Supply includes:

- Assembly components

Mounting examples:

Can be found on page 592

Note:

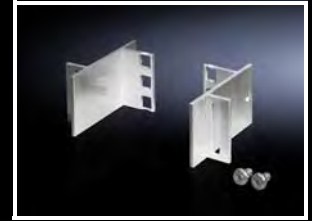
- The 19" (482.6 mm) measurement is obtained when mounting on the TS frame for enclosures with width 600 mm

U	Packs of	Model No.
1	4 pc(s).	8613.010



Accessories:

- Captive nuts, see page 538
- Assembly screws, see page 539
- Slide rails with two-sided mounting, see page 597
- Component shelf installation kit, see page 600



Adapter profile, 19" (482.6 mm)

for rear installation in TS electronic enclosures

To install sub racks on both sides, and to mount slide rails 8613.150, 8613.160 and 8613.180 (see page 597).

Mounting is on the inner mounting level.

The outer mounting level remains free, e.g. for cable routing, on TS system chassis mounted in the depth.

Material:

- Extruded aluminum section

Supply includes:

- Assembly components

Note:

- Design similar to adapter profiles, 19" (482.6 mm) (see page 592) but asymmetrical height, suitable for TS electronic enclosure

For enclosure height inches (mm)	U	Packs of	Model No.
63 (1600)	33	2 pc(s).	8613.360
79 (2000)	42	2 pc(s).	8613.300



Accessories:

- Captive nuts, see page 538
- Assembly screws, see page 539
- Slide rails with two-sided mounting, see page 597
- Component shelf installation kit, see page 600



Possible alternative:

- Adapter pieces, 19" (482.6 mm), see page 593



Infill panels, 19" (482.6 mm), horizontal

for adapter profiles

To infill between installed 19" (482.6 mm) equipment positioned in the full enclosure height and the enclosure clearance height.

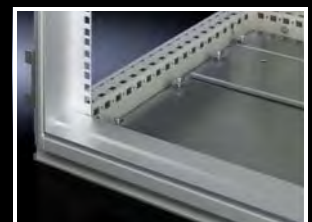
Material:

- Extruded aluminum section

Supply includes:

- Assembly components

For enclosure height inches (mm)	Packs of	Model No.
63/79 (1600/2000)	2 pc(s).	8613.040
71/87 (1800/2200)	2 pc(s).	8613.030



19" Installation System

Profile rails



Profile rails, 19" (482.6 mm)

for TS

L-shaped mounting angle

L rails accommodate the installation kits of server systems. Integrated U markings on the front facilitate systematic assembly within the 19" level.

Technical description:

- 2 mm carbon steel
- Integrated 19" (482.6 mm) punchings (EIA standard)
- Side round and square punchings
- Clear chromated for conductive connection of 19" fixtures

Supply includes:

- Assembly components

Full installation Rack height inches (mm)	U	Packs of	Model No.
71 (1800)	38	2 pc(s).	7827.181
79 (2000)	42	2 pc(s).	7827.201
87 (2200)	47	2 pc(s).	7827.221



Also required:

- TS system chassis or TS installation bracket as installation kit for profile rails, see page 594
- To mount drawers:
Adapter 7827.300, see page 543

Technical details:

Available on the Internet



TS installation bracket

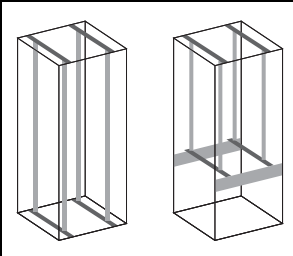
for L rails in TS, 19" (482.6 mm)

To upgrade existing DK-TS applications.

Installation in 32" (800 mm) enclosure width

The installation bracket is screw-fastened in the enclosure width on the housing frame.

The profile rail is fastened to the bracket at the top and bottom. The brackets ensure optimum clearance at the sides for cable routing. For partial enclosure configuration the installation brackets can be fastened to the TS system chassis, 17 x 73 mm, on the outer mounting level of the enclosure frame. Attachment slots allow for completely depth-variable mounting.



Installation position	Packs of	Model No.
center	2 pc(s).	7827.480

Material:

- Carbon steel

Surface finish:

- Zinc-plated

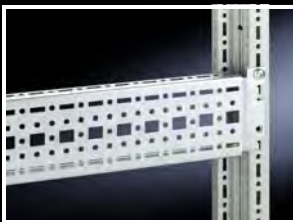
Supply includes:

- Assembly components



Accessories:

- For partial installation, TS system chassis 17 x 73 mm, see page 522 – 523
- For partial installation, L rails, see page 594



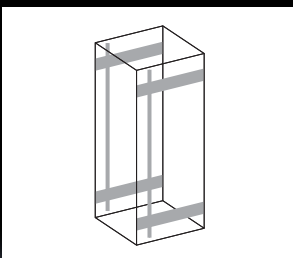
TS system chassis as installation kit

for 19" L rails, in TS 19" (482.6 mm)

To upgrade existing DK-TS applications.

Installation in 600 mm enclosure width

The installation kit consists of 4 TS system chassis 17 x 73 mm to accommodate profile rails. One pack is sufficient to configure one or two 19" mounting levels. For extremely heavy installed equipment it is advisable to use an additional system chassis in the middle.



For enclosures		Packs of	Model No.
Width inches (mm)	Depth inches (mm)		
24 (600)	24 (600)	4 pc(s).	8612.060
24 (600)	32 (800)	4 pc(s).	8612.080
24 (600)	39 (1000)	4 pc(s).	8612.000
24 (600)	47 (1200)	4 pc(s).	8612.020

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Additional attachment for profile rails

for 800 mm wide network enclosures

To upgrade existing DK-TS applications.
Additional attachment that prevents distortion of mounted profile rails in case of unevenly distributed loads. Mounted directly on 19" (482.6 mm) profile rails and on the depth-mounted system chassis (internal level).

Material:

- Carbon steel

Supply includes:

- Assembly components

Packs of	Model No.
2 pc(s).	7284.135



Also required:

- TS system chassis, for the inner mounting level, see page 522 – 523



Profile rails, 19"

for FlatBox

L-shaped bracket as 2nd mounting level.

Material:

- Carbon steel

Supply includes:

- Assembly components for fast, tool-free assembly

Note:

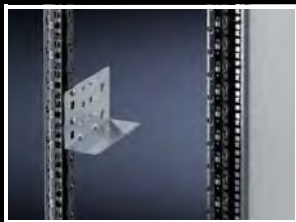
- The 2nd mounting level should always be ordered in the same height as the basic housing
- Partial expansion is not possible

U	Packs of	Model No.
6	2 pc(s).	7507.706
9	2 pc(s).	7507.709
12	2 pc(s).	7507.712
15	2 pc(s).	7507.715
18	2 pc(s).	7507.718
21	2 pc(s).	7507.721



19" Installation System

Slide rails



Slide rails, static installation

for TS IT

For mounting on a 19" mounting level.

- System punchings to mount accessories and ventilate active components

Load capacity:

- 30 kg, static

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

U	Length inches (mm)	Packs of	Model No.
2	6 (150)	2 pc(s).	5501.400



Slide rails, static installation

for TS IT

Mounted between front and rear mounting levels.

- To support heavy installed equipment
- Side system punchings to mount accessories and ventilate active components that exhaust air from the side
- Simply attach to the system punchings of the TS IT

Load capacity:

- 80 kg, static

Material:

- Carbon steel

Surface finish:

- Zinc-plated

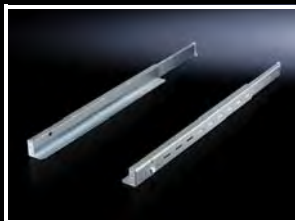
Supply includes:

- Assembly components

Note:

- Effective contact surface 35 mm per side

U	19" clearance between levels inches (mm)	Packs of	Model No.
1	14 (345)	2 pc(s).	5501.410
1	18 (445)	2 pc(s).	5501.420
1	21 (545)	2 pc(s).	5501.430
1	25 (645)	2 pc(s).	5501.440
1	29 (745)	2 pc(s).	5501.450



Slide rails, depth-variable

19" (482.6 mm)

for TS IT

Mounted between front and rear mounting levels. Side attachment to the front profile means all three mounting holes in the EIA system punchings are available for screw-fastening the equipment.

- To support heavy installed equipment
- To adapt to individual distances between levels
- Tool-free, time-saving one-person assembly from the front of the enclosure
- All three mounting holes in the EIA system punchings are available for screw-fastening the equipment
- Alternatively, direct attachment to the 19" (482.6 mm) system punchings is also possible

19" clearance between levels inches (mm)	Load capacity lb (kg)	Packs of	Model No.
16 – 24 (400 – 600)	176 (80)	2 pc(s).	5501.460
24 – 35 (600 – 900)	331 (150)	2 pc(s).	5501.480

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Note:

- Effective contact surface 25 mm per side

Slide rails

PDU button mount brackets

Enables the tool-free installation of PDUs.
Zero-U mounting of PDU is possible.

Material:

- Carbon steel

Surface finish:

- Primed

Color:

- Black

Supply includes:

- Assembly components

Description	Packs of	Model No.
Zero-U, two mounts	2 pc(s).	9971.067
Zero-U, recessed, two mounts	2 pc(s).	9963.800



Telescopic support rail

Heavy duty

This telescopic support rail is used to support heavy installed equipment. Rail length 560.5 mm when completely retracted, up to 762 mm when completely extended.

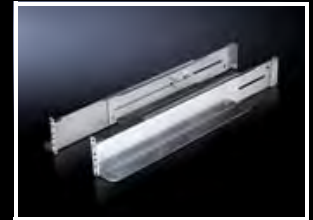
Load capacity:

- 200 lb (91 kg) per set

Supply includes:

- 2 support rails

Packs of	Model No.
2 pc(s).	9963.499



Slide rails

for TS adapter profile

With two-sided mounting between the front and rear adapter profiles, 19" (482.6 mm), or adapter pieces, 19" (482.6 mm).

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure depth inches (mm)	Packs of	Model No.
20 (500)	10 pc(s).	8613.150
24 (600)	10 pc(s).	8613.160
32 (800)	10 pc(s).	8613.180



Also required:

- Adapter profile, 19" (482.6 mm), see page 592 or
- Adapter pieces, 19" (482.6 mm), see page 593



Slide rails

for TS adapter profile

With one-sided mounting on the 19" (482.6 mm) adapter profiles.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Length inches (mm)	Packs of	Model No.
11 (270)	10 pc(s).	4531.000



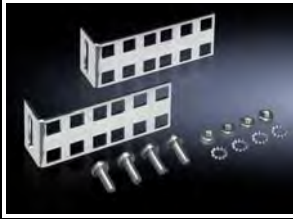
Also required:

- Adapter profile, 19" (482.6 mm), see page 592



19" Installation System

19" Fittings



Mounting kit

for 19" equipment

Facilitates fast, simple integration of additional 2 U installation space within a housing by attaching to the enclosure frame or to the existing profile rails at the sides. The flexible slot on the bracket allows you to choose the spacing between the two installation brackets so that other imperial attachment dimensions can be used. The second row of holes allows for the optional configuration of further installation areas.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Mounting accessories

U	Packs of	Model No.
2	2 pc(s).	7246.420

Adapter, 3 U

Depth offset 100 mm

The adapter to recess the 19" (482.6 mm) mounting of equipment inside housings with a 19" installation in the foremost position, e.g. for server or electronic enclosures. This ensures there is enough space in front of the equipment to integrate patch panels or switches, while utilizing the enclosure depth to the maximum.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
2 pc(s).	7246.400



Drawer, 2 U, 3 U

for 19" (482.6 mm) mounting level

Mounted on the front of profile rails, 19" (482.6 mm). With cover and telescopic slides to accommodate assignment lists, operating manuals and small parts. The small model of the 2 U version is also suitable for mounting a pivoting frame.

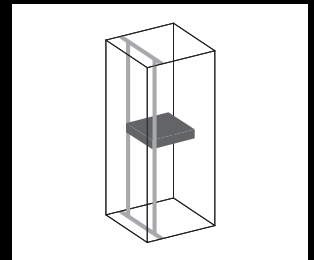
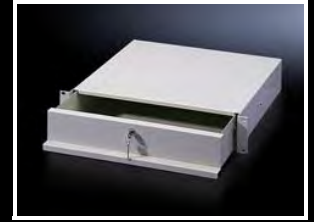
Material:

- Carbon steel

Supply includes:

- Fully assembled, incl. mounting components

Height	Clearance openings		Installation depth inches (mm)	Color		Packs of	Model No.
	Width inches (mm)	Depth inches (mm)		RAL 7035	RAL 9005		
2 U	16 (411)	17 (419)	17 (427)	■	–	1 pc(s).	7282.035
2 U	16 (411)	17 (419)	17 (427)	–	■	1 pc(s).	5502.305
3 U	16 (411)	17 (419)	17 (427)	■	–	1 pc(s).	7283.035
3 U	16 (411)	17 (419)	17 (427)	–	■	1 pc(s).	5502.325



19" Installation System

19" Fittings



Installation kit

for drawers with 19" adapter profiles in TS

Installed between the front and rear adapter profiles or adapter pieces, 19" (482.6 mm) in 600 mm wide enclosures.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For TS enclosure system

For enclosure depth inches (mm)	Packs of	Model No.
24 (600)	1 set(s)	8800.560
32 (800)	1 set(s)	8800.580

Max. depth of component shelves =
Enclosure depth - 4" (-100 mm)



Also required:

- Adapter profile, 19" (482.6 mm), see page 592 or
- Adapter pieces, 19" (482.6 mm), see page 593



Blanking plates, 19" (482.6 mm)

For installation in electronic enclosures or housings.

Material:

- Aluminum

Surface finish:

- Natural anodized

U	Packs of	Model No.
1	3 pc(s).	1931.200
2	3 pc(s).	1932.200
3	3 pc(s).	1933.200
4	3 pc(s).	1934.200
6	3 pc(s).	1936.200
7	3 pc(s).	1935.200
9	3 pc(s).	1939.200
12	3 pc(s).	1937.200



Hinge

for blanking plates

Material:

- Die-cast zinc

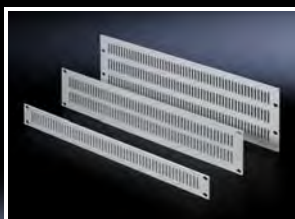
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
2 pc(s).	1950.000



Ventilated front panels

To ventilate enclosures and housings.

Material:

- Aluminum

Surface finish:

- Natural anodized

Width	U	Packs of	Model No.
19" (482.6 mm)	1	3 pc(s).	2231.000
19" (482.6 mm)	2	3 pc(s).	2232.000
19" (482.6 mm)	3	3 pc(s).	2233.000

Air baffle plate

for TS IT

- To separate the hot/cold zones within an enclosure with aisle containment or when using an LCP system
- With all-round brush strip for partitioning without disruption when busbar systems are installed on the outer mounting level
- Additional 6 x 1 U blanking panel included with 800 mm width

Material:

- Carbon steel, plastic UL 94-V0

Surface finish:

- Spray-finished

Color:

- RAL 9005

Supply includes:

- Assembly components

Height x width inches (mm)	Packs of	Model No.
79 x 24 (2000 x 600)	1 set(s)	5501.805
79 x 32 (2000 x 800)	1 set(s)	5501.815
87 x 24 (2200 x 600)	1 set(s)	5501.825
87 x 32 (2200 x 800)	1 set(s)	5501.835



Cover, magnetic

Covers the mounting rail hole profile and redirects air distribution. It also provides partition if cable fingers or a Dynamic Rack Control strip are not used.

Length inches (m)	Packs of	Model No.
197 (5)	1 pc(s).	5501.895



Captive nuts M5/M6

To fasten slide-in electronic equipment, 19" (482.6 mm) installed equipment and blanking plates to profile rails, 19" (482.6 mm). Used with profile plate thicknesses 0.8 – 2.0 mm. For narrow tolerance, captive nuts for profile plate thicknesses 1.2 – 1.5 mm should be used. Either with or without contacting the installed equipment with the 19" (482.6 mm) profile/housing.

Captive nut M5

Type	For plate thicknesses ga (mm)	Packs of	Model No.
With contact	20 – 14 (0.8 – 2.0)	50 pc(s).	2094.500
Without contact	20 – 14 (0.8 – 2.0)	50 pc(s).	2092.500

Captive nut M6

Type	For plate thicknesses ga (mm)	Packs of	Model No.
With contact	20 – 14 (0.8 – 2.0)	50 pc(s).	2094.200
Without contact	20 – 14 (0.8 – 2.0)	50 pc(s).	2092.200
With contact	18 – 16 (1.2 – 1.5)	50 pc(s).	2094.300
Without contact	18 – 16 (1.2 – 1.5)	50 pc(s).	2092.300



Captive nuts 10/32

Captive nut 10/32

Type	For plate thicknesses ga (mm)	Packs of	Model No.
Without contact	20 – 14 (0.8 – 2.0)	50 pc(s).	9957.324

19" Installation System

19" Fittings



Multi-tooth screws

M6 x 16 mm

For optimum transmission of torques, extended tool life and increased safety and reliability when tightening and loosening screw connections.

Supply includes:

- Plastic washers

	Bit size	Packs of	Model No.
M6	Multi-tooth 30	50 pc(s).	7094.140



Assembly screws

M5 x 16 mm/M6 x 16 mm

For slide-in electronic equipment, 19" (482.6 mm) installed components and blanking plates.

Supply includes:

- Plastic washers

Type	Packs of	Model No.
Phillips-head screw M5	50 pc(s).	7094.120
Phillips-head screw M6	50 pc(s).	7094.100



Cage nut, 19"

The screw fastening consists of an expanding nut which is inserted into the square hole at the front only and then secured with the fastening screw. When the screw is tightened the captive nut expands in this way securing the elements. Holder tightening zone 1.2 – 4.5 mm. Multi-tooth screw head, bit size T 30.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 50 expanding nuts
- Assembly screws
- Plastic washers

Dimensions mm	Size of mounting hole mm	Packs of	Model No.
M6 x 16	9.5 x 9.5	50 pc(s).	2094.400



Spring nuts with screws

M6 x 10 mm for T-slot profile

The spring nuts ensure flexible, secure mounting of accessory components on T-slot profile rails.

Supply includes:

- 50 spring nuts
- 50 screws 10 mm, self-locking

Type	Packs of	Model No.
Phillips-head, M6	50 pc(s).	7000.990



Patch panels

Tool-free snap ring

Easy mounting on roof and plates, protects cables at cable entry. Optional brush ring to block air flow.

Material:

– Plastic

Color:

– Black

Supply includes:

– 1 pack = 4 pc(s).

Description	Packs of	Model No.
Brush ring 4" (112 mm)	1 pack	9961.334
Snap-on ring grommet	1 pack	9961.326



Blanking panel, 19" (482.6 mm)

As a reserve panel cover or any configuration as required.

Material:

– Carbon steel

Color:

– RAL 7035

U	Installation height inches (mm)	Packs of	Model No.
1	2 (44)	2 pc(s).	7151.035
2	4 (88)	2 pc(s).	7152.035
3	5 (132.5)	2 pc(s).	7153.035
6	10 (266)	2 pc(s).	7156.035



Blanking panel

Tool-free attachment 19" (482.6 mm)

Blanking panel is installed to block the air flow in unused or unoccupied spaces. Can be fitted without tools or additional assembly components.

Surface finish:

– Sand texture

Color:

– Black

U	Material	Packs of	Model No.
1	Plastic	12	9960.676
1	Metal	10	9970.016
3	Metal	5	9970.017



Blanking panel, 1 U

Tool-free attachment, 19" (482.6 mm)

The blanking panel is used to cover unused areas within the 19" (482.6 mm) mounting level. Tool-free quick-release fastening allows for easy installation in any location, and removal if necessary. The consistent use of blanking panels ensures targeted ventilation in partially occupied racks.

Color:

– RAL 7035

Material:

– Plastic, ABS

Fire behavior:

– Self-extinguishing to UL 94-V0, not halogen-free

Packs of	Model No.
10 pc(s).	7151.110



19" Installation System

Splicing boxes



Fiber optic splicing box with telescopic pull-out

Lockable

The 19" (482.6 mm) splicing box is used to hold splicing cassettes and can be installed in any network distributor within the 19" (482.6 mm) rail and can be used as a fiber optic end closure or distributor. Telescopic pull-out provides easy access to the splicing cassettes and the cable clamping. The variable cassette accommodates the twist-proof installation of all standard splicing cassettes. The security lock on the front provides protection from unauthorized access. The rear part of the splicing box is left completely open for cable routing, with a rubber clamping profile that provides protection from the ingress of dust. The fiber optic cables can be secured using cable ties or cable clamps, two strain relief clamps and the cable routing clips for the fiber dispenser provide a system-compatible solution for all fiber optic cabling.

U	Maximum no. of splicing cassettes	Packs of	Model No.
1	2	1 pc(s).	7170.535

Installation depth:

- 363 mm

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Splicing box
- Cable routing clips
- Security lock
- Box type plug-in unit cover
- Mounting accessories for patch panel

Note:

- Supplied without patch panels and splicing cassettes



Patch panels

for fiber optic splicing box, lockable

Panels for the splicing boxes for the installation of single or duplex fiber optic couplings.

Material:

- Carbon steel

Color:

- RAL 7035

For coupling	Number of locations	U	Packs of	Model No.
E-2000, SC, LC Single or duplex	20	1	1 pc(s).	7178.535

Handle set

for Comfort Panel

Mounted on corner pieces, also suitable for retrofitting.

Material:

- Handle tube: Aluminum
- Handle holder: Die-cast zinc
- Covers: Polyamide

Surface finish:

- Handle tube: Natural anodized
- Handle holder: Powder-coated

Color:

- Handle holder: RAL 7024
- Covers: Similar to RAL 7024

Supply includes:

- Handle tube, Ø 20 mm
- 2 handle holders
- 2 covers
- Assembly components

For horizontal mounting

With front panel width	Packs of	Model No.
19" (482.6 mm)	1 set(s)	6375.010

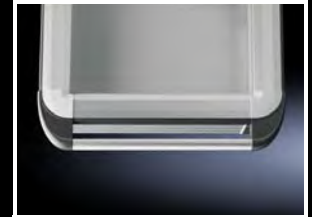
Note:

- Shorter heights and widths can be achieved by cutting the handle tube to length
- For enclosures with 74 mm installation depth, cannot be mounted on the same side as the support arm connection



Accessories:

- Clipboard, see page 607
- Display board, see page 607



Handle set

For vertical and horizontal mounting on all surfaces.

Total length: 420 mm

Material:

- Handle tube: Aluminum
- Tube holder: Die-cast zinc

Surface finish:

- Handle tube: Natural anodized

Color:

- Tube holder: RAL 7035

Supply includes:

- 4 tube holders
- 2 handle tubes

Packs of	Model No.
1 set(s)	2389.000



Accessories:

- Clipboard, see page 607
- Display board, see page 607



TP aluminum strip

For retrofitting to

- TP three-piece/two-piece
- TP one-piece console
- All enclosures/covers with 20 mm folded edge height (plate thickness max. 2 mm)

Length: 1750 mm

(easily cut to length for other dimensions)

Sufficient for desk units and top pieces:

- 3 x width 600 mm
- 2 x width 800 mm
- 1 x width 1000 mm + 1 x width 600 mm
- 1 x width 1200 mm
- 1 x width 1600 mm

Length inches (mm)	Model No.
69 (1750)	6731.120

Material:

- Aluminum strip: Extruded aluminum section
- Cover caps: Plastic

Surface finish:

- Aluminum strip: Natural anodized

Color:

- Cover caps: RAL 7035

Supply includes:

- 1 aluminum section
- 6 plastic cover caps
- Drilling template
- Mounting accessories



Handles

Handles

For horizontal or vertical attachment to the housing panels of

- Comfort Panel
- Other housings or
- Surfaces

Mounting holes and a smooth surface are required for installation.

The surface can be milled for the Comfort Panel with ribbed surface, which can be selected using configurators on the Rittal web pages. In this case, please indicate "prepared for 6107.XXX handle set" for the command panel.

Material:

- Handle holder: Die-cast zinc
- Cover bungs: Plastic
- Handle tube: Aluminum

Surface finish:

- Handle tube: Powder-coated

Color:

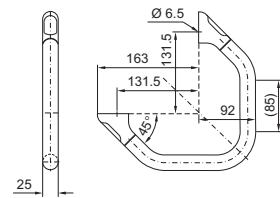
- Handle holder: RAL 7035
- Cover bungs: Similar to RAL 7035
- Handle tube: Similar to RAL 9006

Corner handle

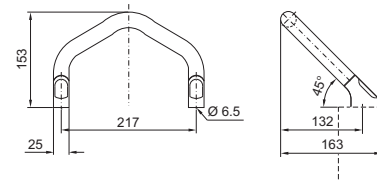
Supply includes:

- 4 handle holders
- 2 handle tubes
- Assembly components

Mounted to corner of housing



Mounted on straight surface
(Handle holder turned through 90°)



U handle

Supply includes:

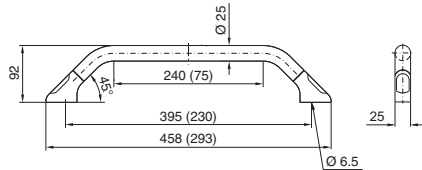
- 2 handle holders
- 1 handle holder
- Assembly components

For front panel dimensioning	Packs of	Model No.
≥ 7 U	1 set(s)	6107.100
19" (482.6 mm)	1 set(s)	6107.200



Accessories:

- For 6107.200: Clipboard, see page 607
- For 6107.200: Display board, see page 607



Note:

- Dimensions in brackets for front dimensioning 7 U



External mounting accessories

Clipboard

To hold operating instructions or plans (A4 size) at eye level.

Prepared for mounting on the right side, can be switched to the left by unscrewing the clamping piece.

A straight length of tube ≥ 200 mm, $\varnothing 20$ mm or $\varnothing 25$ mm is required for mounting.

Material:

- Clipboard: Carbon steel
- Clip: Aluminum

Surface finish:

- Clip: Natural anodized

Color:

- RAL 7035

Height inches (mm)	Width inches (mm)	Packs of	Model No.
12 (315)	9 (225)	1 pc(s).	6013.000



Also required:

- Handle set 2389.000, see page 605
or
- Handle set for Comfort Panel, see page 605
or
- U handle 6107.200, see page 606



Display board

with wall bracket

To hold test plans, documents etc. in A4 format.

Mounting

- On surfaces
- In the 25 mm TS frame or rail system hole pattern
- On the $\varnothing 20$ mm or $\varnothing 25$ mm handle set

Supply includes:

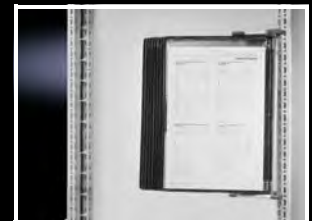
- Display Boards
- Wall Bracket
- Assembly components

Packs of	Model No.
1 set(s)	6013.100



Accessories:

- Handle set 2389.000, see page 605
or
- Handle set for Comfort Panel, see page 605
or
- U handle 6107.200, see page 606



Housing surface connector

To accommodate keyboard rest (2383.000, see page 612).

Material:

- Surface connector: Extruded aluminum section
- Side cover: Carbon steel

Surface finish:

- Surface connector: Natural anodized

Color:

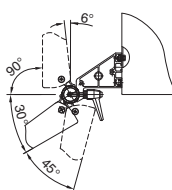
- RAL 7024

Supply includes:

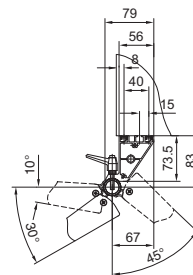
- Assembly components

Packs of	Model No.
1 set(s)	2383.010

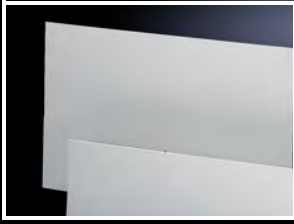
Mounting
on surfaces



Mounting
underneath surfaces



Front fittings



Front panels for Comfort Panel

Material:

- Aluminum, 3 mm

Surface finish:

- Natural anodized

Note:

- Mounting kits included in the supply of 520 mm wide standard housings.

With mounting hole

Height inches (mm)	Width inches (mm)	U	Model No.
6 (155.0)	19 (482.6)	3.5	6027.000
12 (310.3)	19 (482.6)	7	6028.000

With threaded bolts M5

Height inches (mm)	Width inches (mm)	U	Model No.
6 (155.0)	19 (482.6)	3.5	6027.010
12 (310.3)	19 (482.6)	7	6028.010
14 (355.6)	18 (457.2)	–	8015.416
16 (400)	20 (520)	–	6028.014
20 (500)	20 (520)	–	6028.015
24 (600)	20 (520)	–	6028.016



Also required:

- Mounting kit for Comfort Panel 6053.800, see page 609



Cover plate

for support arm connection

To securely lock an unused support arm connection in the housing.

Material:

- Carbon steel

Supply includes:

- Seal and assembly components

Note:

- For Comfort Panels where (2) support arm cut-outs are provided, a cover plate is included in the supply of the housing.

Support arm connection	Surface finish	Model No.
□ 90 x 71 mm	Spray-finished RAL 7024	6505.200
Ø 130 mm	Zinc-plated, clear-chromated	6505.500
□ 120 x 65 mm	Zinc-plated, clear-chromated	6505.100

Mounting kit

for Comfort Panel

For the installation of aluminum front panels, command panels and keyboards.

Supply includes:

- 6058.800, 6053.800:
20 each of retaining claws, captive nuts, screws, nuts and sealing washers
- 6053.300:
8 medium retaining claws, 8 short retaining claws, 4 long retaining claws

1 6058.800, 6053.800

2 6053.300

For drilled holes/bolts/front panel mounting from behind

Thread	Model No.
M4	6058.800
M5	6053.800

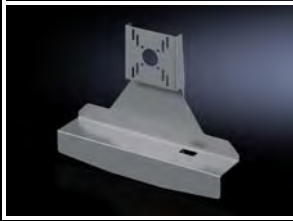
For screw clamp

For the installation of	Model No.
Siemens Sinumerik: OP 010, OP 010 C, OP 012, OP 015, OP 015 A, OP 019, MCP 483 C, MCP 483, PP 012, PP 012 extension, MCP, KB 483 C, Qwerty 19"	6053.300
Siemens Simatic: TP 900 Comfort, KP 900 Comfort, TP 1200 Comfort, KP 1200 Comfort, KTP 1000 Basic, KTP 1500 Basic	
Panel PC 477C, 577C, 677C: 12.1"-Key, 12.1"-Touch, 15.1"-Key, 15.1"-Touch, 19"-Touch, 22"-Touch ¹⁾	
MP 377 12"-Touch, MP 377 15"-Touch, MP 377 19"-Touch	
Industrial Flat Panel: IFP 1200 Touch, IFP 1500 Touch, IFP 1200 Key, IFP 1500 Key, IFP 1900 Touch, IFP 2200 Touch	
Industrial Thin Client: ITC 1200, ITC 1500, ITC 1900, ITC 2200	
B & R: Automation Panel, Panel PC	

¹⁾ 2 packs are required



Keyboards, Supports and Drawers



TFT holder

Suitable for mounting TFTs with VESA 75/100 adaptation up to 21" on

- Attachment CP 40, 6501.070, see page 131
- Attachment CP 60 for support arm connection
□ 120 x 65 mm, 6206.360, see page 139
- Vertical support arm via +100°/-60° tilting adapter, 6206.460, see page 139

Material:

- Carbon steel

Surface finish:

- Spray-finished

Color:

- RAL 7024

Dimensions inches (mm)	Packs of	Model No.
15 x 19 x 4 (372 x 477 x 110.5)	1 pc(s).	2383.030

Technical details:

Available on the Internet



Keyboard, pull-out

with integral trackball

Super-slimline keyboard with cursor keys and trackball. The handle also acts as a hand rest. At a 10° angle for good ergonomics when typing.

For installation in

- All sufficiently large surfaces (e.g. door, side panel)
- Front panels
- Directly in Comfort Panels of appropriate size, can be selected using the configurator on the Rittal web pages

Technical specifications:

Keyboard:

- 84 short-stroke keys, IBM-AT compatible (MF2), incl. cursor keys
- With integral 16 mm trackball
- Interface: 2 x USB
- Operating temperature: +41°F...+122°F
- Storage temperature: +14°F...+140°F
- Relative humidity: max. 95 % (no condensation)

Keyboard layout	Packs of	Model No.
German	1 pc(s).	6002.130

Material:

- Carbon steel

Surface finish:

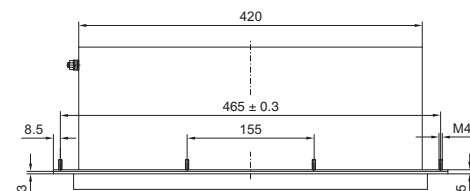
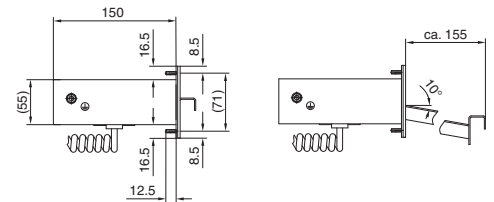
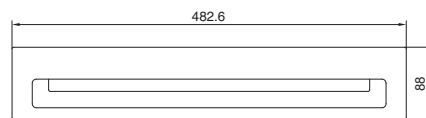
- Front panel: Powder-coated

Color:

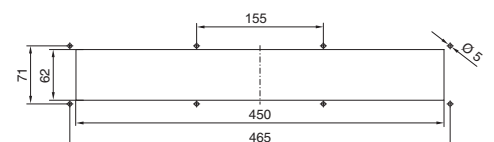
- RAL 7035

Protection category IP to IEC 60 529:

- IP 65 (at front, closed)



Mounting cut-out



Keyboards, Supports and Drawers

Built-in keyboard 19" 4 U

with integral touchpad

The integral touchpad means there is no need to install a mouse in the correct protection category, and cabling is also reduced. The short-stroke keys are easy to locate thanks to raised edges, are operated with a light touch and give good, tactile feedback.

Advantages:

- The separate number pad enables the parameters to be entered quickly
- Sealed, wipeable surface finish
- High level of mechanical and chemical resistance as per DIN 42 115.

Technical specifications:

- Number of keys: 105
- Dimensions of front panel: 19" x 4 U (482.6 x 177.0 mm)
- Installation depth: 23 mm
- 12 rear threaded bolts M5 x 20
- Actuator travel/actuating force: 0.3 mm/2.6 N
- Service life: 3 million switching cycles
- Operating temperature: -40°F...194°F
- Resolution of touchpad, capacitive: 40 pixels/mm
- Interfaces: USB

Material:

- Front panel: Aluminum

Protection category IP to IEC 60 529:

- IP 65 (at front)

Supply includes:

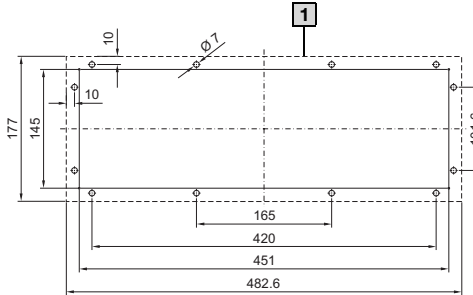
- USB connection cable, length 1800 mm
- Seal
- Drilling template
- Assembly components for surfaces

Keyboard layout	Packs of	Model No.
German	1 pc(s).	6446.030



Also required:

- Mounting kit 6053.800 (for installation in Comfort Panel), see page 609



1 Contact surface



Fold-out tray

for keyboard and mouse

For installation in

- 600 and 800 mm wide doors
- 19" swing frames and enclosures

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 488 and lock cylinder SZ 2571.000, see page 489

Material:

- Flap: Carbon steel
- Side parts: Cast aluminum
- Tray: Extruded aluminum section

Surface finish:

- Flap, side parts: Textured paint
- Tray: Natural anodized

Color:

- Flap, side parts: RAL 7035

Protection category:

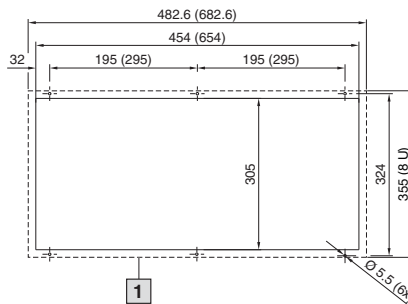
- IP 55 to EN 60 529



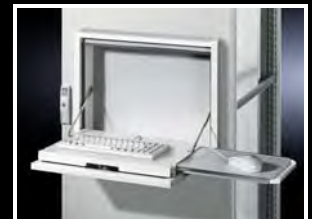
Accessories:

- Support for mouse pad, pull-out, see page 612

Mounting cut-out



1 Contact surface



For door width inches (mm)	External dimensions H x W x D inches (mm)	Installation depth inches (mm)	Max. keyboard size H x W x D inches (mm)	Model No.
24 (600)	14 x 19 x 5 (355/8 U x 482.6 x 126)	4 (93)	2 x 16 x 10 (50 x 405 x 250) 2 x 16 x 8 (50 x 405 x 195) ¹⁾	2379.600
32 (800)	14 x 27 x 5 (355/8 U x 682.6 x 126)	4 (93)	2 x 24 x 10 (50 x 605 x 250) 2 x 24 x 8 (50 x 605 x 195) ¹⁾ 2 x 19 x 10 (50 x 475 ¹⁾ x 250)	2379.800

¹⁾ Max. keyboard size with holder for mouse

Keyboards, Supports and Drawers



Support for mouse pad, pull-out

with mouse holder

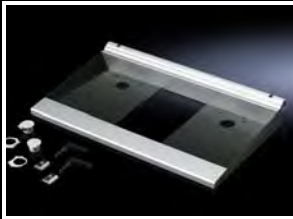
Screw-fastened to the fold-out tray 2379.600/2379.800, see page 611.

To fit all standard mouse pads up to 250 x 205 mm.

Supply includes:

- Assembly components

Packs of	Model No.
1 set(s)	2379.900



Support

for keyboards

up to max. 473 x 210 mm.

Prepared for

- Cable gland
- Support for mouse pad, swivel 2383.020

Material:

- Side parts: Carbon steel
- Front and rear: Extruded aluminum section

Surface finish:

- Side parts: Textured paint
- Front and rear: Natural anodized

Color:

- Side parts: RAL 7024

Supply includes:

- 2 clamping levers, end stoppers, cover plate, cable entry grommet and Hook and loop strap

Packs of	Model No.
1 set(s)	2383.000



Also required:

- For installation on surfaces using housing surface connector, see page 607



Accessories:

- Support for mouse pad, swivel, see page 616



Utility bars, swivel

To support standard keyboards during programming and servicing work.

Rest requires mounting clearance of at least 300 mm to allow it to pivot freely.

Sufficient depth for keyboards up to max. 210 mm.

For mounting below

- Comfort Panel¹⁾
- Sufficiently large surfaces, e.g.:
 - Worktops IW
 - Command Panel with Handle Strips

on

- Vertical surfaces (doors/side panels)

Min. front panel width

¹⁾ 385 mm

After use, the utility bars fit securely and neatly under the mounting surface, thus giving the operator more space to move around.

Packs of	Model No.
1 set(s)	6514.200

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components



Drawer 19 1/2 U for keyboard and mouse

For installation in

- All sufficiently large surfaces (e.g. door, side panel)
- 19" hole profile
- Front panels
- Directly in Comfort Panels of appropriate size, can be selected using the configurator on the Rittal web pages

Suitable for

- Accommodating keyboards up to max. 32 x 390 x 139 mm
- Support for conventional mouse or trackball

Version:

- Drawer: With stay
- Front panel: With security lock (lock no. 12321) and handle strip

Width inches (mm)	U	Depth inches (mm)	Model No.
19" (482.6)	2	6 (150)	6002.000

Material:

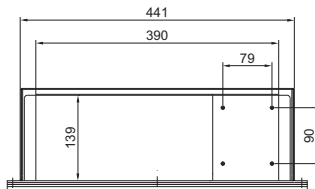
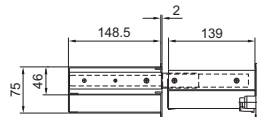
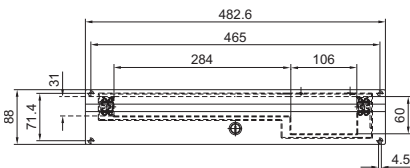
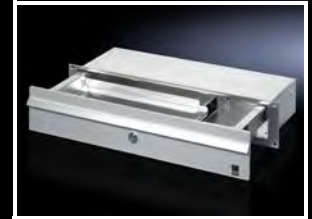
- Drawer housing: Carbon steel
- Drawer and front panel: Aluminum

Surface finish:

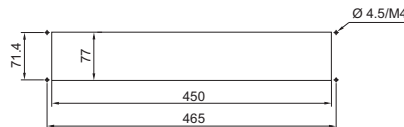
- Drawer housing: Zinc-plated
- Drawer and front panel: Natural anodized

Supply includes:

- Assembly components for installation in Comfort Panel command panel



Mounting cut-out
(for installation in surfaces)



Keyboards, Supports and Drawers



Drawer for keyboard and mouse

with mouse pad support

For installation in

- All sufficiently large surfaces (e.g. door, side panel)
- Front panels

Suitable for accommodating

- Keyboards up to max. 42 x 460 x 170 mm
- Standard mouse and mouse pad

Version:

- Drawer and housing: With side pull-out mouse pad support and tray
- Front panel: With 3 mm double-bit lock insert, folds out as handrest

Width inches (mm)	U	Depth inches (mm)	Model No.
19" (482.6)	3.5	10 (261)	6003.000

Material:

- Drawer and enclosure: Carbon steel
- Front panel: Aluminum

Surface finish:

- Drawer and enclosure: Textured paint
- Front panel: Natural anodized

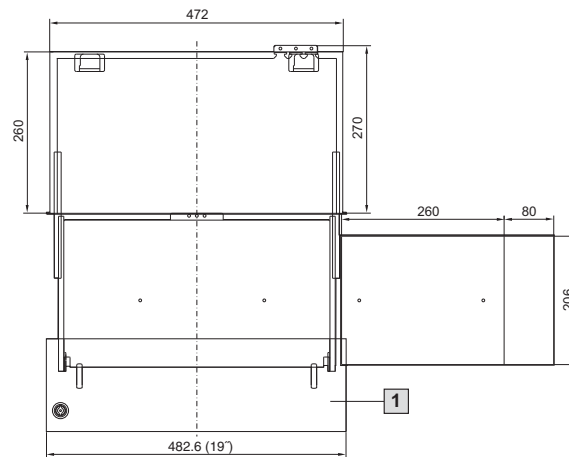
Supply includes:

- Assembly components

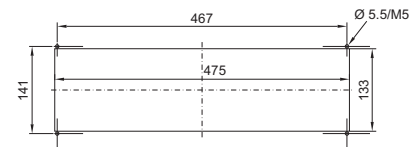


Accessories:

- Standard double-bit lock insert may be exchanged for 27 mm lock insert, type A, see page 488



Mounting cut-out
for installation in surfaces



1 Front trim panel



Keyboard drawer 1 U

for 19" (482.6 mm) mounting level

The space-saving keyboard drawer is screw-fastened to the front and rear 19" (482.6 mm) mounting level. The installation clearance is infinitely variable in the range between 460 – 800 mm. It is fully extendible and lockable, with strain relief and hinged cable support.

The drawer is suitable for accommodating 19" (482.6 mm) keyboards.

Interior dimensions:

- H x W x D approx. 40 x 420 x 220 mm

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Assembly components, without keyboard

Note:

- Monitor/keyboard unit, 1 U, see page 377

Distance between levels inches (mm)	Model No.
18 – 32 (460 – 800)	7281.200

Keyboard drawer 2 U

for a 19" (482.6 mm) mounting level

For keyboards up to 430 mm wide and 250 mm deep when front panel is folded up.

Material:

- Carbon steel with aluminum front

Surface finish:

- Spray-finished

Color:

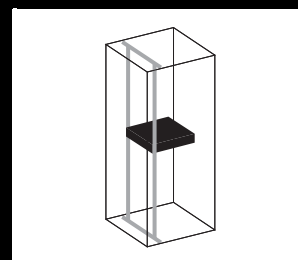
- RAL 7035

Supply includes:

- Lockable drawer with handles
- Folding front
- Pull-out mouse pad
- Mouse support
- Practical cable entry
- And strain relief

Height	Packs of	Model No.
2 U	1 pc(s).	7281.035

Installation depth: 390 mm



Support for mouse pad

for command panels and surfaces

The angle of the rest can be individually adjusted. Two mounting holes are required for mounting on the housing.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Weight lb (kg)	Packs of	Model No.
2 (1.0)	1 pc(s).	2381.000



Accessories:

- Support for mouse, see page 616



Keyboards, Supports and Drawers



Support for mouse pad, swivel

Mounted on the left/right below the keyboard rest. Latches in place automatically, both when retracted and extended. With mounting holes for mouse holder 2382.000.

With cut-outs for cable entry and holes for quick mounting with cable ties 2597.000.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

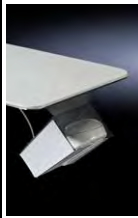
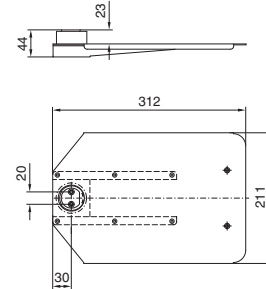
- Assembly components and mouse pad, stuck on with adhesive

Packs of	Model No.
1 pc(s).	2383.020



Accessories:

- Support for mouse, see page 616
- Cable tie, see page 576



Mouse holder

To fit mouse pad rest, holds a standard mouse securely.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Weight lb (kg)	Packs of	Model No.
0.7 (0.3)	1 pc(s).	2382.000



Also required:

- Support for mouse pad, see page 615
- or
- Support for mouse pad, swivel, see page 616

Interface extension with wall connection and RJ 45 built-in module

To extend the internal housing interfaces – e.g. from industrial PCs and switches – to the outside of the enclosure. The wall connection only takes up as much space as a switch.

Advantages:

- Rapid access for maintenance work
- The protection category of the enclosure is preserved
- The lock nut cuts automatically into the spray-finish or anodized layer, thereby creating a conductive connection
- Captive protective cap

Material:

- Housing: Brass
- Cover: Aluminum
- Seal: Polyamide

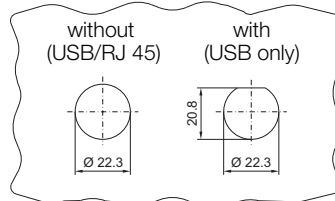
Surface finish:

- Housing: Nickel-plated
- Cover: Natural anodized

Protection category IP to IEC 60 529:

- IP 66/67 (with cover closed)

Anti-twist guard



Material thickness: 1 – 6 mm



Version	Wall connection	Inside	Length inches (mm)	Packs of	Model No.
USB	Socket version A	Connector version A	20 (500)	1 pc(s).	2482.210
			39 (1000)	1 pc(s).	2482.220
			79 (2000)	1 pc(s).	2482.230
RJ 45	Socket	Connector	20 (500)	1 pc(s).	2482.700
			39 (1000)	1 pc(s).	2482.710
			79 (2000)	1 pc(s).	2482.720
RJ 45	Socket	Socket	–	1 pc(s).	2482.730



Interface flaps, modular

For universal use where rapid access to interfaces and outlets is needed. The housing remains closed, protecting it from environmental effects and unauthorized access.

Space-saving installation, e.g.

- In **small housings and compact enclosures** as a programming interface for controls
- In **IT and industrial distributors** to provide maintenance access for networks
- In **PC enclosures and console systems** to temporarily connect auxiliary devices
- In mobile **industrial workstations** for quick connection to existing network structures
- In **command panel systems** for the programming and maintenance of integrated components.

The cover on the mounting frame can be opened at various angles from 90° to 180°. The snap fit closure ensures a good seal. The cover can be locked if necessary.

Material:

- Mounting frame and metal flap: Fine die-cast zinc
- Plastic flap: Polycarbonate (semi-transparent)
- Lock: Polycarbonate, RAL 7024

Surface finish:

- Mounting frame and metal flap: Matt nickel-plated

Color:

- Lock: RAL 7024

Protection category IP to IEC 60 529:

- IP 65 (with cover closed and correct installation)

Description	cUL	UL	Packs of	Model No.
Mounting frame¹⁾				
[1] Single, with plastic flap (semi-transparent)			1 pc(s).	2482.300
Double, with plastic flap (semi-transparent)			1 pc(s).	2482.310
[2] Single, with metal flap	■	■	1 pc(s).	2482.320
[3] Double, with metal flap	■	■	1 pc(s).	2482.330
Socket modules				
[4] Germany (VDE), screw terminals max. 2 x 2.5 mm ² , connection at rear			1 pc(s).	2482.400³⁾
[5] Germany (VDE), screw terminals max. 6 mm ² , connection at rear, color: yellow (RAL 1016), for installation in front of main switch			1 pc(s).	2482.410³⁾
USA NEMA 5-15, insert component for connection to 0.2" x 0.03" (4.8 x 0.8 mm)	■	■	1 pc(s).	2482.420⁴⁾
Interface inserts				
[6] 2 x SUB-D9 (jack/pin)	■	■	1 pc(s).	2482.500
[7] SUB-D9 (jack/jack)	■	■	1 pc(s).	2482.510
[8] 2 x USB A (jack/jack)	■	■	1 pc(s).	2482.540²⁾
[9] RJ 45 (jack/jack, Cat. 5e), SUB-D9 (jack/jack), SUB-D9 (pin/pin)	■	■	1 pc(s).	2482.550
[10] 2 x RJ 45 (jack/jack, Cat. 5e)	■	■	1 pc(s).	2482.560²⁾
[11] USB A (jack/jack), RJ 45 (jack/jack, Cat. 5e), SUB-D9 (jack/pin)	■	■	1 pc(s).	2482.570²⁾
[12] Blanking plate (slimline), for individual population, usable area: 3 x 1.8" (75 x 45 mm)	■	■	1 pc(s).	2482.590

¹⁾ Electrically conductive

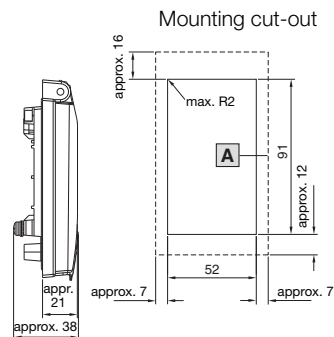
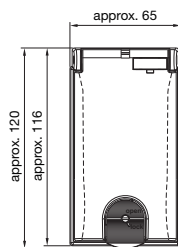
²⁾ Conductively connected to mounting frame

³⁾ Rated voltage: 250 V, rated current: 10 – 16 A

⁴⁾ Rated voltage: 125 V AC, rated current: 15 A (2482.420)

All SUB-D interfaces can be turned in the insert

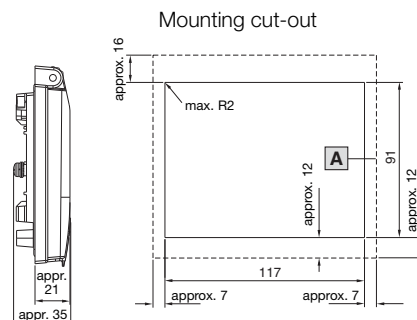
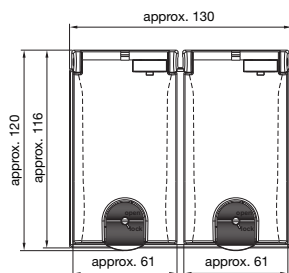
Single interface flap



Permitted material thickness:
1 – 5 mm

A Contact surface

Double interface flap



Signal Pillars, LED Compact

Advantages:

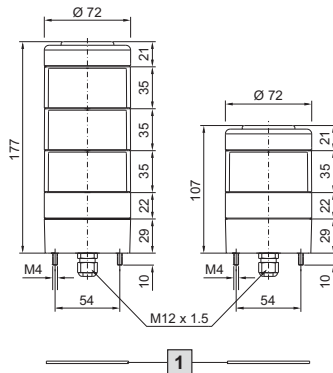
- Complete, ready-to-connect solution
- Minimal build height
- Extremely long service life of the LEDs (at least 70,000 h), therefore maintenance-free
- Minimal assembly work and warehousing costs

Technical specifications:

- Operating voltage: 24 V AC/DC
- Electrical connection: Screw terminals
- Light (bulb): LED
- Angle of reflected beam: 3 x 120°
- Operating temperature: -4°F...158°F
- Flashing function: PLC controllable
- Cable entry: Metric cable gland M12 x 1.5 for cable diameter 3.0 – 6.5 mm

Protection category IP to IEC 60 529:

- IP 65



1 Seal

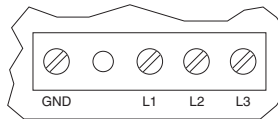
Version	Packs of	H inches (mm)	Model No.
3-stage, red, yellow, green	1 pc(s).	7 (177)	2372.100
1-stage, red	1 pc(s).	4 (107)	2372.130



Also required:

- For wall mounting: Bracket for wall mounting, see page 620
- For conduit mounting/support arm systems: Connection adapter, see page 619
- Other mounting components, see page 620/621

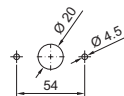
Connection diagram 2372.100/.130



GND – 0 V (Ground)

L1 – L3 – +24 V (DC) (LED light levels, from bottom to top, contacts that are not required remain free)

Mounting cut-out



Connection Adapters

for signal pillar, LED compact

For conduit mounting and mounting on support arm systems.

Material:

- Plastic

Color:

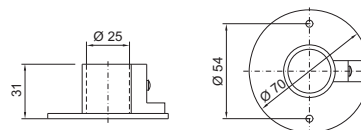
- Black

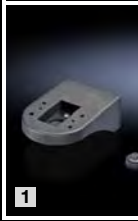
Packs of	Model No.
1 pc(s).	2372.120



Accessories:

- Mounting components for conduit mounting, see page 621
- Mounting components for support arm systems, see page 620

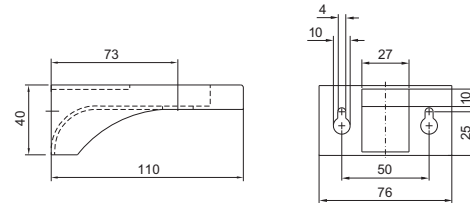




Mounting Components for wall/base mounting

Fig.	Mounting component	Color	Suitable for LED compact	Model No.
1	Bracket for wall mounting including rubber gland for concealed cable routing	black	■	2372.110

Bracket for wall mounting



Mounting Components for support arm systems

To mount a signal pillar on the plastic cover of support arm components.

Fig.	Mounting component	Color	Suitable for LED compact	Model No.
2	for support arm system CP 40, steel – 90° Angle Piece 6501.140	RAL 7024 (graphite gray)	■	2375.030
3	for CP 60 support arm system – 90° Angle Adapter for CP 60 Support Arm Combination to CP 40 6206.640 – 90° Angle Coupling 6206.380 – 90° Angle Piece 6206.600 – Intermediate Joint 6206.620 – Wall Joint 6206.740 – Top-Mounted Joint 6206.700	RAL 7024 (graphite gray)	■	6206.900
4	for CP 120 support arm system – 90° Angle Coupling 6212.380 – 90° Angle Piece 6212.600 – Intermediate Joint 6212.620 – Wall Joint 6212.740 – Top-Mounted Joint 6212.700	RAL 7024 (graphite gray)	■	6212.900
	for CP 180 support arm system – 90° Angle Piece 6218.600 – Top-Mounted Joint 6218.700	RAL 7024 (graphite gray)	■	6212.900



Also required:

- Connection adapter 2372.120, see page 619



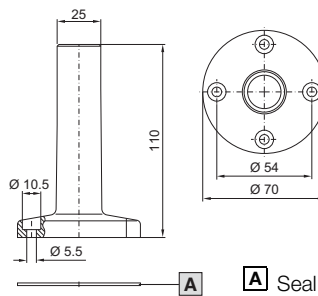
Mounting Components for conduit mounting

Fig.	Mounting component	Color	Suitable for LED compact	Model No.
5	Base with integral conduit, Ø 25 mm, 110 mm long	black	■ ¹⁾	2374.000
6	Individual base	black	■	2374.010
7	Single pipe, 250 mm long	Aluminum	■ ¹⁾	2374.020
	Single pipe, 400 mm long	Aluminum	■ ¹⁾	2374.030
8	Angle bracket for pipe mounting	black	■	2374.050

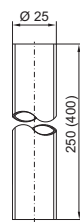
! Also required:

– ¹⁾ Connection adapter 2372.120, see page 619

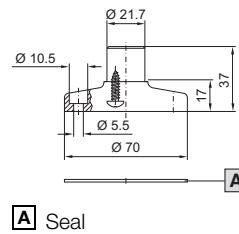
Base with integrated conduit



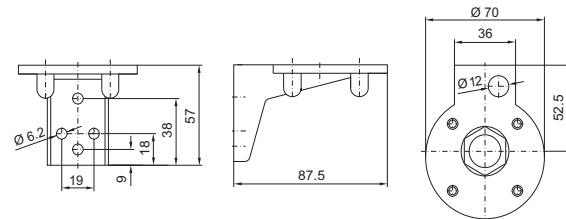
Individual conduit



Individual base, plastic



Angle bracket for pipe mounting





RittalXpress – Stock > Mod > Ship

One Program – Three Advantages

The industry's best, most sought-after enclosures and accessories are now available as part of the industry's best support program. RittalXpress features an extensive stocking program, a custom modification program and fast and efficient shipping.

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The CE symbol

All Rittal products subject to an EU Directive which defines labeling requirements are labeled CE.
Up-to-date manufacturer declarations for the respective products are available on the Internet.

Note:

The CE symbol is not a quality symbol. Conformity is certified by the manufacturer on an independent basis.
This distinguishes CE labeling from approvals, which are issued by independent bodies.

Grounding

The grounding must be designed by the manufacturer of switchgear in accordance with the relevant VDE provisions or local regulations.
The enclosure packs generally contain grounding materials (screws, nuts, washers). The assembly instructions contain recommendations on installing a protective ground.

The pre-assembled ground straps available in various cross sections and lengths, are intended to make assembly of a ground conductor easier.

Further information can be found in our technical documentation "PE ground conductor connection, current carrying capacity".

Enclosure designs guaranteeing hygiene and effective cleaning

Special applications require special solutions – in terms of materials, design and security.
This is also true for applications in the food and hygiene sector and in sensitive fields such as medical technology and pharmaceuticals.
Consequently, Rittal has reviewed the quality standards in those branches and has subjected its products to stringent testing.



Understanding PB, WM, and JB part numbers:

PB 01 305 S 1 C

1 2 3 4 5 6

- 1 **Product Type**
- 2 **Number of Holes**
- 3 **Hole Size**
305 = 30.5 mm
225 = 22.5 mm
- 4 **Enclosure Type**
S = Standard
X = Extra Deep
T = Slope Top
L = Slim
C = Continuous Hinge
M = Miniature
E = Extra Large
- 5 **Number of Columns**
- 6 **Material**
C = Carbon Steel
4 = Stainless Steel 304
6 = Stainless Steel 316

WM S 12 12 06 N C

1 2 3 4 5 6 7

- 1 **Product Type**
- 2 **Slope Top Version**
- 3 **Height**
- 4 **Width**
- 5 **Depth**
- 6 **Disconnect**
N = Non-disconnect
X = Disconnect
- 7 **Material**
C = Carbon Steel
4 = Stainless Steel 304
6 = Stainless Steel 316

JB 12 12 06 H C

1 2 3 4 5 6

- 1 **Product Type**
- 2 **Height**
- 3 **Width**
- 4 **Depth**
- 5 **Cover Type**
H = Hinged
- 6 **Material**
C = Carbon Steel
4 = Stainless Steel 304
6 = Stainless Steel 316

Protection categories to IEC 60 529 (EN 60 529)

The IP protection category is characterised by 2 numbers.

Example of a protection category, e.g. IP 43:

Code letters

IP

First numeral

4

Second numeral

3

Degrees of protection for protection against contact and foreign bodies: First numeral			Degrees of protection for protection against water: Second numeral		
First numeral	Degree of protection		Second numeral	Degree of protection	
	Description	Explanation		Description	Explanation
1	Protected against solid foreign objects with a diameter of 50 mm and greater	The object probe, a sphere 50 mm in diameter, must not penetrate fully ¹⁾ .	1	Protected against water drops	Vertically falling water drops must not cause any harmful effects.
2	Protected against solid foreign objects with a diameter of 12.5 mm and greater	The object probe, a sphere 12.5 mm in diameter, must not penetrate fully ¹⁾ . The articulated test finger may penetrate up to its length of 80 mm, but adequate distance from hazardous parts must be adhered to.	2	Protected against vertically falling water drops when the enclosure is tilted up to 15°	Vertically falling drops must not have any harmful effects when the enclosure is tilted up to 15° on either side of the vertical.
3	Protected against solid foreign objects with a diameter of 2.5 mm and greater	The object probe, a sphere 2.5 mm in diameter, must not penetrate at all ¹⁾ .	3	Protected against sprayed water	Water sprayed at an angle of up to 60° on either side of the vertical shall have no harmful effects.
4	Protected against solid foreign objects with a diameter of 1.0 mm and greater	The object probe, a sphere 1.0 mm in diameter, must not penetrate at all ¹⁾ .	4	Protected against splashed water	Water splashed on the enclosure from any direction shall have no harmful effects.
5	Dust-proof	The ingress of dust is not fully prevented, but dust may not enter to such an extent as to impair satisfactory operation of the device or safety.	5	Protected against water jets	Water directed at the enclosure from any direction in a jet shall have no harmful effects.
6	Dust-tight	No ingress of dust at a partial vacuum of 20 mbar inside the enclosure.	6	Protected against powerful water jets	Water directed at the enclosure from any direction in a powerful jet shall have no harmful effects.
			7	Protected against temporary immersion in water	Water must not ingress to such an extent as to cause harmful effects when the enclosure is temporarily immersed in water under standardised pressure and time conditions.
			8	Protected against continuous immersion in water	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions to be agreed between the manufacturer and the user. However, the conditions must be more difficult than for numeral 7.
			9 ²⁾	Water with high-pressure/steam-jet cleaning	Water directed at the enclosure from every direction under greatly increased pressure must not have any adverse effects.

¹⁾ The full diameter of the object probe must not pass through an opening of the enclosure

²⁾ This test is not regulated by EN 60 529, but by DIN EN 40 050, part 9.

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NEMA 250-2003 to IEC 60529 enclosure classification designations (IP)

IP First Character	NEMA Enclosure Type																		IP Second Character
	1		2		3, 3X, 3S, 3SX		3R, 3RX		4, 4X		5		6		6P		12, 12K, 13		
IP0_																			IP_0
IP1_																			IP_2
IP2_																			IP_1
IP3_																			IP_3
IP4_																			IP_4
IP5_																			IP_5
IP6_																			IP_6
																			IP_7
																			IP_8
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	

A = A shaded block in the "A" column indicates that the NEMA Enclosure Type exceeds the requirements for the respective IEC 60529 IP First Character Designation. The IP First Character Designation is the protection against access to hazardous parts and solid foreign objects.

B = A shaded block in the "B" column indicates that the NEMA Enclosure Type exceeds the requirements for the respective IEC 60529 IP Second Character Designation. The IP Second Character Designation is the protection against the ingress of water.

Example Of Table Use

An IEC IP 45 Enclosure Rating is specified. What NEMA Type Enclosures meet and exceed the IP 45 rating?

Referencing the first character, 4, in the IP rating and the row designated "IP4_" in the left most column in the table; the blocks in Column "A" for NEMA Types 3, 3X, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K, and 13 are shaded. These NEMA ratings meet and exceed the IEC protection requirements against access to hazardous parts and solid foreign objects.

Referencing the second character, 5, in the IP rating and the row designated "IP_5" in the right most column in the table; the blocks in Column "B" for NEMA Types 3, 3X, 3S, 3SX, 4, 4X, 6 and 6P are shaded. These NEMA ratings meet and exceed the IEC requirements for protection against the ingress of water. The absence of shading in Column "B" beneath the "NEMA Enclosure Type 5" indicates that Type 5 does not meet the IP 45 protection requirements against the ingress of water. Likewise the absence of shading in Column "B" for NEMA Type 12, 12K and 13 enclosures indicates that these enclosures do not meet the IP 45 requirements for protection against the ingress of water. Only Types 3, 3X, 3S, 3SX, 4, 4X, 6, and 6P have both Column "A" in the "IP4_" row and Column "B" in the "IP_5" row shaded and could be used in an IP 45 application.

The NEMA Enclosure Type 3 not only meets the IP 45 Enclosure Rating, but also exceeds the IEC requirements because the NEMA

Type requires an outdoor corrosion test; a gasket aging test; a dust test; an external icing test; and no water penetration in the rain test. Slight differences exist between the IEC and NEMA test methods, but the IEC rating permits the penetration of water if "it does not deposit on insulation parts, or reach live parts." The IEC rating does not require a corrosion test; gasket aging test; dust test or external icing test. Because the NEMA ratings include additional test requirements, this table cannot be used to select IP Designations for NEMA rated enclosure specifications.

IEC 60529 specifies that an enclosure shall not only be designated with a stated degree of protection indicated by the first characteristic numeral if it also complies with all lower degrees of protection. Furthermore IEC 60529 states that an enclosure shall only be designated with a degree of protection indicated by the second characteristic numeral if it also complies with all lower degrees of protection up to and including the second characteristic numeral 6. An enclosure designated with a second characteristic numeral 7 or 8 only is considered unsuitable for exposure to water jets (designated by second characteristic numeral 5 or 6) and need not comply with requirements for numeral 5 or 6 unless it is dual coded. Since the IEC protection requirements become more stringent with increasing IP character value up through 6, once a NEMA Type rating meets the requirements for an IP designation up through 6, it will also meet the requirements for all lower IP designations. This is apparent from the shaded areas shown in the table.

Note

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NEMA

The **N**ational **E**lectrical **M**anufacturers **A**ssociation (NEMA) is a standards organisation in Washington, USA, which publishes a number of technical standards but does not test or certify products itself.

The following NEMA classification outlines the protection of individuals from accidental contact with equipment and the protection of an enclosure from external factors.

Further information on protection categories may be found on the Rittal website.

UL

UL is a source for product compliance based in Northbrook, IL, USA. UL has developed more than 800 safety standards, for which it does product testing, and serves customers in more than 35 countries around the world, from manufacturers and retailers to consumers and regulating bodies.

CSA

The **C**anadian **S**tandards **A**ssociation is a not-for-profit membership-based association serving business, industry, government and consumers in Canada and the global marketplace. CSA develops standards for public health and safety and offers training materials, workshops, and seminars for education in those standards.

Type	NEMA	UL	CSA
	National Electrical Manufacturers Association (NEMA 250)	Underwriters Laboratories, Inc. (UL 50 and 508) ¹⁾	Canadian Standards Association (C22.2 No. 94-M91)
1	Enclosures for use predominantly indoors. Protection against the penetration of foreign bodies	Indoor use primarily to provide protection against contact with the enclosed equipment and against a limited amount of falling dirt	General purpose enclosure. Protects against accidental contact with live parts
2		Indoor use to provide a degree of protection against contact with the enclosed equipment and against a limited amount of falling dirt	Indoor use to provide a degree of protection against dripping and light splashing of noncorrosive liquids, and falling dirt
3	Enclosures for use predominantly outdoors. Protection from rain, hail, dust, icing and the damage caused by icing	Outdoor use to provide a degree of protection against windblown rain; undamaged by the formation of ice on the enclosure	Indoor or outdoor use to provide a degree of protection against rain, snow, and windblown dust; undamaged by the external formation of ice on the enclosure
3R	Enclosures for use predominantly outdoors. Protection from rain, hail, icing and the damage caused by icing	Outdoor use to provide a degree of protection against windblown dust and windblown rain; undamaged by the formation of ice on the enclosure	Indoor or outdoor use to provide a degree of protection against rain, snow; undamaged by the external formation of ice on the enclosure
3S	Enclosures for use predominantly outdoors. Protection from rain, hail and dust. External mechanisms remain usable despite being coated in ice	–	–
4	Enclosures for indoor or outdoor use. Protection against rain, foreign bodies, splashed water and hosed water and against damage caused by icing on the exterior of the enclosure	Indoor or outdoor use to provide a degree of protection against falling rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure	Indoor or outdoor use to provide a degree of protection against rain, snow, and windblown dust, splashing and hose-directed water; undamaged by the external formation of ice on the enclosure
4X	Enclosures for indoor or outdoor use. Protection against rain, foreign bodies, splashed water and hosed water and against damage caused by icing on the exterior of the enclosure. Increased protection from corrosion	Indoor or outdoor use to provide a degree of protection against falling rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure; resists corrosion	Indoor or outdoor use to provide a degree of protection against rain, snow, and windblown dust, splashing and hose-directed water; undamaged by the external formation of ice on the enclosure; resists corrosion
6	–	Indoor or outdoor use to provide a degree of protection against entry of water during temporary submersion at a limited depth; undamaged by the formation of ice on the enclosure	Indoor or outdoor use to provide a degree of protection against entry of water during temporary submersion at a limited depth; undamaged by the formation of ice on the enclosure
12, 12K	Enclosures for use predominantly indoors. Protection against dust deposits, foreign bodies and non-corrosive dripping liquids	Indoor use to provide a degree of protection against dust, dirt, fiber flyings, dripping water, and external condensation of non-corrosive liquids	Indoor use primarily to provide a degree of protection against circulating dust, lint, fibers, and flyings; dripping and light splashing of non-corrosive liquids; not provided with knockouts
13	Enclosures for use predominantly indoors. Protection against dust deposits, sprayed water, oil, and non-corrosive coolants	Indoor use to provide a degree of protection against lint, dust, seepage, external condensation and spraying of water, oil, non-corrosive liquids	Indoor use primarily to provide a degree of protection against circulating dust, lint, fibers, and flyings; seepage and spraying of non-corrosive liquids including oils and coolants

The UL/NEMA type ratings are not directly comparable with IP protection categories, since both the test conditions and the evaluation of the test results are different.

¹⁾ UL shall not be responsible to anyone for the use of or reliance upon a UL Standard material by anyone. UL shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon a UL Standard Material

Approvals and permits

Product certifications and approvals are pivotal to the global acceptance of industrial products. Rittal products meet the highest internationally recognised quality yardsticks. All components are subjected to the most stringent testing in accordance with international standards and regulations. The consistently high product quality is ensured by a comprehensive quality management system. Regular production inspections by external test institutes also guarantee compliance with global standards.

A precise allocation of products to marks of conformity can be found on our product and service pages on the Internet.

Earthing

The PE conductor connection must be designed by the manufacturer of switchgear in accordance with the relevant VDE and/or local regulations. The enclosure packs generally contain earthing materials (screws, nuts, washers). The assembly instructions contain recommendations on installing a protective earth. The pre-assembled earth straps, available as accessories in various cross-sections and lengths, are intended to make assembly of a PE conductor easier.

Further information can be found in our technical documentation "PE conductor connection, current carrying capacity".

The 3-phase coating procedure

Coating procedure	Technical properties	Technical specifications	
Degreasing, nanoceramic pretreatment, rinsing	Used as corrosion protection and to improve paint adhesion.	Nanoceramic conversion layer	
Anodic dipcoat priming	Even layer formation on all surfaces, edges and in cavities, which produces a high level of corrosion protection even at the assembly stage.	Erichsen cupping test to DIN EN ISO 1520	≥ 4 mm
		Buchholz hardness to DIN EN ISO 2815	≥ 80
		Cross cutting to DIN EN ISO 2409	Gt 0
	The primer is readily overpainted and free from heavy metals, chromate and silicone.		
Stove enamelling			
Textured powder-coating	Powder-coating is distinguished by a high level of mechanical resistance, excellent corrosion protection, good resistance to chemicals and temperature, and its facility for decontamination.	Erichsen cupping test to DIN EN ISO 1520	≥ 3.5 mm
		Buchholz hardness to DIN EN ISO 2815	≥ 80
		Cross cutting to DIN EN ISO 2409	Gt 0
		Salt spray test to DIN EN ISO 9227 NSS	Test period: 168 hrs
		Condensate test to DIN EN ISO 6270-2 CH	Test period: 500 hrs
	Condensate test to DIN EN ISO 6270-2 AHT	Test period: 20 cycles	
The powder coating is readily overpainted and is free from heavy metals, chromate and silicone.			
Stove enamelling			

The coating is resistant to:

- Mineral oils
- Lubricants
- Machine emulsions
- Alcohol-based solvents (briefly, e.g. during cleaning)
- Weak acids and alkalines

Primer or powder coating suitable for overpainting

After careful cleaning of the surface, the standard coating may be overpainted with:

- DD gloss paints
- Single and dual-component gloss paints
- Car repair paints
- Powder paints
- Water-based paints

If in doubt, perform a compatibility test. Always follow the paint manufacturer's instructions.

When overpainting, take care not to exceed 180°C and a baking time of 15 minutes.

It is advised that prior to painting the surface be prepared by either physical scuffing or with the use of a chemical etching agent. A 300 grit pad would provide suitable scuffing, and Xylene or Toulene are suitable chemical agents.

Special coatings

Chemical paint:

Provides the best possible resistance to organic and inorganic substances that can be achieved with paint.

Outdoor use of enclosures

In order to guarantee satisfactory long-term function of enclosures in outdoor use, the relevant environmental factors must be taken into account.

These include:

- UV radiation, the corrosive action of air pollution, rain, icing, snow, wind or other factors in special climatic conditions.

Condensation inside the enclosure

Condensation must be prevented by means of appropriate measures, e.g. by venting or heating the enclosure.

Protection category

The enclosure may be exposed to extreme weather conditions during outdoor use.

Long periods of rain, snow, ice, high winds and temperature fluctuations place particularly high demands on the enclosure sealing. The protection category IP X3 as envisaged for external weather conditions in DIN VDE 0100, part 737, point 5.2 is often insufficient to provide permanent protection for electrical equipment.

Model Number List

1001.600 to 2367.060

Model No.	Page	Model No.	Page	Model No.	Page	Model No.	Page	Model No.	Page
1001.600	175	1316.600	163	1526.010	168	1591.000	492	2271.605	101
1002.500	175	1317.600	163	1527.010	168	1592.000	492	2304.000	488
1002.600	175	1320.600	163	1527.510	28	1592.010	492	2304.010	164
1003.600	175	1338.500	43	1528.010	168	1594.000	503	2305.000	476
1004.600	175	1339.500	43	1528.510	27	1670.600	162	2307.000	488
1005.500	176	1350.500	43	1529.010	168	1671.600	162	2308.000	491
1005.600	176	1360.500	44	1529.510	28	1672.600	162	2309.000	530
1006.500	176	1376.500	44	1530.010	168	1674.600	162	2310.076	495
1006.600	176	1380.500	43	1530.510	29	1675.600	162	2310.100	495
1007.600	176	1400.500	55	1531.510	29	1676.600	162	2310.120	495
1008.600	176	1423.500	54	1532.510	29	1751.500	34	2311.225	494
1009.600	176	1432.500	54	1533.510	29	1752.500	34	2311.250	494
1010.500	176	1434.500	54	1534.510	30	1753.500	34	2313.150	530
1010.600	176	1444.500	54	1535.510	29	1754.500	34	2313.750	530
1011.600	175	1446.500	54	1536.510	29	1755.500	34	2314.000	530
1012.600	176	1448.500	54	1537.510	30	1931.200	600	2315.000	530
1013.600	176	1449.500	54	1538.510	30	1932.200	600	2316.000	530
1014.600	177	1453.500	54	1539.510	29	1933.200	600	2317.000	530
1015.600	176	1454.500	55	1540.510	30	1934.200	600	2318.000	530
1016.600	177	1466.500	55	1541.510	30	1935.200	600	2319.000	530
1017.600	177	1467.500	55	1542.510	30	1936.200	600	2322.700	588
1018.600	177	1468.500	55	1545.500	33	1937.200	600	2323.235	589
1019.500	177	1469.500	55	1546.500	33	1939.200	600	2324.235	589
1019.600	177	1479.500	55	1547.500	33	1950.000	600	2325.000	494
1030.500	42	1480.500	55	1548.500	34	1962.200	590	2326.000	494
1031.500	43	1481.000	510	1549.500	34	1963.200	590	2327.000	494
1032.500	42	1482.000	539	1550.500	34	1979.200	590	2328.000	494
1033.500	42	1483.010	504	1551.500	33	1980.200	590	2331.700	588
1034.500	42	1484.000	487	1552.500	33	1994.835	588	2332.235	589
1035.500	42	1484.001	487	1553.500	34	1995.235	589	2334.000	555
1036.500	42	1486.000	488	1554.500	34	1995.835	589	2335.000	555
1037.500	43	1488.000	488	1555.500	34	1996.535	588	2336.700	588
1038.500	43	1490.010	486	1556.500	34	1996.835	588	2337.235	589
1039.500	43	1491.000	510	1557.500	34	1997.235	589	2338.235	589
1045.500	43	1492.000	488	1560.700	507	1997.835	589	2340.700	588
1050.500	43	1500.510	28	1561.700	507	2026.200	590	2341.235	589
1054.500	44	1501.510	28	1562.700	507	2027.200	590	2342.235	589
1055.500	44	1502.510	28	1563.700	507	2034.200	590	2343.000	555
1057.500	43	1503.510	28	1564.700	507	2092.200	601	2345.700	588
1058.500	44	1504.510	28	1565.700	507	2092.300	601	2346.235	589
1060.500	43	1505.510	28	1566.700	507	2092.500	601	2347.235	589
1073.500	44	1506.510	28	1567.700	507	2094.200	601	2350.000	574
1076.500	44	1507.510	28	1568.700	507	2094.300	601	2351.000	574
1077.500	44	1508.510	28	1569.700	507	2094.400	602	2352.000	574
1090.500	44	1509.510	28	1570.700	507	2094.500	601	2353.000	574
1100.500	45	1510.510	28	1571.700	507	2203.400	576	2354.000	574
1110.500	45	1511.510	28	1572.700	507	2231.000	600	2355.000	574
1114.500	45	1512.510	28	1573.700	507	2232.000	600	2356.000	574
1130.500	45	1513.510	28	1574.700	507	2233.000	600	2357.000	574
1158.500	566	1514.510	27	1575.700	507	2243.605	100	2358.000	574
1180.500	44	1515.510	27	1576.700	507	2246.605	100	2359.000	574
1199.100	466	1516.510	27	1577.500	34	2249.605	100	2360.000	574
1213.500	45	1517.510	27	1578.500	34	2252.605	100	2361.000	499
1260.500	44	1518.510	27	1579.500	34	2253.605	100	2362.000	499
1280.500	44	1519.510	28	1580.000	503	2255.605	101	2363.000	499
1302.600	163	1521.010	168	1581.000	564	2256.605	100	2364.000	557
1306.600	163	1522.010	168	1581.100	565	2259.605	100	2365.000	537
1307.600	163	1523.010	168	1582.000	564	2261.605	101	2366.000	537
1308.600	163	1524.010	168	1589.510	28	2262.605	101	2367.040	552
1310.600	163	1525.010	168	1590.000	503	2265.605	101	2367.060	552

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2367.120	552	2410.010	568	2472.000	499	2514.500	496	2571.000	489
2367.160	552	2410.020	568	2473.000	499	2514.600	496	2572.000	487
2367.200	552	2410.030	568	2474.000	499	2514.800	496	2573.000	563
2372.100	619	2410.110	568	2475.000	499	2515.000	496	2574.000	537
2372.110	620	2410.120	568	2477.000	457	2519.000	497	2575.000	487
2372.120	619	2410.130	568	2478.000	457	2519.200	497	2576.000	487
2372.130	619	2410.200	568	2479.000	456	2520.000	488	2583.010	505
2373.000	537	2410.210	568	2480.000	456	2521.000	491	2584.000	505
2374.000	621	2410.220	568	2481.000	456	2522.000	488	2589.000	575
2374.010	621	2410.230	568	2482.210	617	2523.000	488	2590.000	575
2374.020	621	2410.290	568	2482.220	617	2525.000	489	2591.000	575
2374.030	621	2412.210	555	2482.230	617	2526.000	488	2592.000	575
2374.050	621	2412.216	555	2482.300	618	2527.000	488	2593.000	575
2375.030	620	2412.225	555	2482.310	618	2528.000	488	2594.000	575
2377.030	587	2412.310	555	2482.320	618	2530.000	488	2595.000	575
2377.060	587	2412.316	555	2482.330	618	2531.000	491	2596.000	575
2377.090	587	2412.325	555	2482.400	618	2532.000	491	2597.000	576
2377.120	587	2413.375	552	2482.410	618	2533.000	487	2599.000	487
2377.150	587	2413.550	552	2482.420	618	2534.100	489	2683.600	181
2377.180	587	2414.000	553	2482.500	618	2534.500	489	2684.600	181
2377.860	587	2414.500	553	2482.510	618	2535.000	487	2685.600	181
2377.880	587	2415.000	553	2482.540	618	2536.000	487	2686.600	181
2379.600	611	2415.100	498	2482.550	618	2537.000	485	2730.000	474
2379.800	611	2415.500	511	2482.560	618	2537.010	485	2731.000	474
2379.900	612	2416.000	490	2482.570	618	2540.500	488	2732.000	474
2381.000	615	2418.000	490	2482.590	618	2541.235	309	2733.000	474
2382.000	616	2419.000	490	2482.700	617	2542.235	309	2734.000	474
2383.000	612	2420.000	488	2482.710	617	2543.235	309	2735.250	473
2383.010	607	2422.000	502	2482.720	617	2545.000	491	2735.500	473
2383.020	616	2423.000	502	2482.730	617	2546.000	491	2735.510	473
2383.030	610	2424.100	500	2483.000	488	2547.000	491	2735.520	473
2383.210	521	2425.100	500	2484.000	488	2548.000	491	2735.530	473
2383.250	521	2426.100	500	2485.000	487	2549.000	491	2735.540	473
2383.300	521	2426.500	500	2485.100	487	2549.500	491	2735.560	473
2383.350	521	2427.100	500	2486.300	539	2549.510	164	2735.570	473
2388.000	551	2430.000	488	2486.500	539	2549.600	164	2735.580	473
2388.100	552	2432.000	492	2487.000	539	2559.000	555	2735.590	473
2388.120	551	2433.000	504	2488.000	539	2560.400	566	2736.500	473
2388.150	552	2433.500	504	2489.000	539	2561.100	565	2736.510	473
2388.200	552	2435.000	486	2489.500	539	2561.400	566	2736.520	473
2388.280	552	2446.000	495	2493.000	489	2561.500	564	2736.530	473
2388.600	551	2449.000	492	2493.500	490	2562.100	565	2736.540	473
2388.800	551	2452.000	486	2503.010	504	2562.400	566	2740.000	476
2389.000	605	2453.000	486	2504.000	539	2562.500	564	2741.000	476
2400.000	569	2455.010	486	2504.500	539	2563.100	565	2742.000	476
2400.300	571	2459.000	448	2504.800	539	2563.150	566	2743.000	476
2400.500	571	2459.500	448	2505.510	505	2563.500	564	2744.000	476
2400.900	570	2460.000	488	2507.100	550	2564.000	555	2745.000	476
2400.910	570	2460.650	488	2507.200	550	2565.000	555	2746.000	476
2400.920	570	2461.000	488	2507.300	550	2565.100	555	2749.000	477
2400.930	570	2462.000	488	2507.400	550	2565.110	555	2760.000	474
2400.940	570	2463.000	488	2507.500	550	2565.120	555	2761.000	474
2400.950	570	2464.000	488	2508.010	504	2566.000	555	2762.000	474
2400.960	570	2465.000	488	2508.100	503	2567.000	555	2763.000	474
2400.970	570	2466.000	488	2509.000	502	2568.000	555	2772.000	474
2401.000	456	2467.000	483	2509.500	502	2569.000	555	2780.000	474
2402.000	456	2468.000	483	2510.000	496	2570.000	555	2781.000	474
2403.000	476	2469.000	483	2512.000	496	2570.100	557	2782.000	474
2404.000	476	2470.000	499	2513.000	496	2570.200	555	2784.000	474

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2785.000 to 3311.435

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2785.000	474	3110.000	315	3213.330	312	3243.066	307	3301.610	313
2786.000	474	3110.200	316	3214.100	289	3243.080	308	3301.612	313
2787.000	474	3114.200	315	3215.100	290	3243.085	308	3301.930	314
2788.000	474	3118.000	316	3216.480	293	3243.100	243	3301.940	314
2789.000	474	3120.200	317	3235.440	316	3243.110	243	3301.950	314
2793.560	475	3124.100	318	3235.450	317	3243.200	308	3301.955	314
2796.000	474	3124.200	317	3236.124	309	3243.500	246	3301.960	314
2801.200	433	3126.100	257	3237.020	308	3243.600	249	3301.965	314
2802.200	433	3126.115	257	3237.060	308	3243.610	249	3302.100	264
2816.200	433	3126.230	385	3237.066	307	3244.100	244	3302.110	264
2817.000	430	3126.240	385	3237.080	308	3244.110	244	3302.200	264
2818.200	433	3127.100	257	3237.085	308	3244.140	244	3302.300	263
2819.000	430	3127.115	257	3237.100	242	3244.500	246	3302.310	263
2819.200	430	3128.100	257	3237.110	242	3244.600	249	3302.403	274
2826.200	433	3128.115	257	3237.124	242	3244.610	249	3302.413	274
2828.200	433	3129.100	258	3237.200	308	3245.080	308	3303.500	265
2859.000	435	3129.115	258	3237.600	247	3245.500	246	3303.503	274
2865.000	433	3130.100	258	3237.610	247	3245.510	246	3303.504	277
2867.000	433	3130.115	258	3238.020	308	3245.600	249	3303.510	265
2869.000	433	3144.000	256	3238.055	307	3273.500	281	3303.513	274
2870.000	433	3145.000	256	3238.060	308	3273.515	281	3303.514	277
2889.000	434	3148.007	253	3238.066	307	3284.210	306	3303.600	265
2890.000	434	3149.007	253	3238.080	308	3286.110	305	3304.500	267
2891.000	430	3149.410	252	3238.085	308	3286.120	306	3304.503	275
2892.000	430	3149.420	252	3238.100	242	3286.300	305	3304.504	277
2899.200	571	3149.440	252	3238.110	242	3286.310	306	3304.510	267
2899.250	571	3149.810	252	3238.124	242	3286.400	305	3304.513	275
2899.320	571	3149.820	252	3238.200	308	3286.410	306	3304.514	277
2899.400	571	3149.840	252	3238.500	245	3286.500	305	3304.540	268
2907.000	432	3159.100	321	3238.600	247	3286.510	306	3304.544	277
2908.000	432	3169.007	253	3239.020	308	3286.520	306	3304.600	268
2913.000	432	3171.100	307	3239.060	308	3286.530	306	3304.640	268
3020.500	231	3171.105	307	3239.066	307	3286.540	306	3305.500	269
3031.000	217	3172.100	307	3239.080	308	3286.550	306	3305.503	275
3032.000	217	3172.105	307	3239.085	308	3286.600	305	3305.504	278
3071.000	228	3173.100	307	3239.100	243	3286.610	306	3305.510	269
3079.000	221	3173.105	307	3239.110	243	3286.700	320	3305.513	275
3079.010	221	3174.000	307	3239.124	243	3286.780	312	3305.514	278
3086.000	223	3175.000	309	3239.200	308	3286.840	310	3305.540	269
3087.000	223	3177.000	305	3239.500	245	3286.850	311	3305.544	278
3088.000	223	3181.100	307	3239.600	248	3286.860	311	3305.600	269
3090.000	223	3182.100	307	3240.020	308	3286.870	310	3305.640	269
3091.000	223	3183.100	307	3240.060	308	3286.880	312	3307.700	284
3092.000	219	3201.050	307	3240.066	307	3286.970	310	3307.740	284
3105.310	302	3201.070	318	3240.080	308	3286.980	312	3310.700	284
3105.320	302	3201.200	262	3240.085	308	3286.990	310	3310.740	284
3105.330	302	3201.300	262	3240.100	243	3300.040	285	3311.011	355
3105.340	302	3201.900	314	3240.110	243	3300.050	285	3311.016	355
3105.350	302	3201.960	318	3240.124	243	3300.060	285	3311.030	354
3105.360	302	3201.970	318	3240.200	308	3300.070	285	3311.040	354
3105.370	302	3209.100	294	3240.500	245	3300.080	285	3311.130	348
3105.380	303	3209.500	294	3240.600	248	3300.090	285	3311.148	351
3105.390	303	3210.100	295	3241.100	243	3300.110	285	3311.230	348
3105.400	303	3210.500	295	3241.110	243	3300.120	285	3311.238	349
3105.410	303	3210.510	295	3241.124	243	3301.370	354	3311.260	348
3105.420	303	3212.024	288	3241.500	245	3301.380	354	3311.268	349
3105.430	303	3212.115	288	3241.600	249	3301.500	313	3311.320	355
3108.024	309	3212.230	288	3241.610	249	3301.505	313	3311.415	352
3108.100	309	3213.310	312	3243.020	308	3301.600	313	3311.425	352
3108.115	309	3213.320	312	3243.060	308	3301.606	313	3311.435	353

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3311.445	353	3359.500	280	3516.000	219	4138.250	546	4315.100	550
3311.530	350	3359.510	280	3524.000	219	4138.280	546	4315.150	550
3311.538	351	3359.600	280	3525.000	219	4138.290	546	4315.200	550
3311.540	350	3360.250	299	3525.010	219	4138.300	546	4315.320	550
3311.548	351	3361.500	266	3526.000	219	4138.350	546	4315.350	550
3311.560	350	3361.510	266	3527.000	219	4138.400	546	4315.400	550
3311.568	351	3361.600	266	3528.000	219	4138.450	546	4315.450	550
3318.600	297	3363.100	288	3528.010	219	4139.140	546	4315.520	550
3318.610	297	3363.500	288	3529.000	219	4139.150	546	4315.550	550
3319.600	297	3364.100	289	3550.000	223	4139.180	546	4315.600	550
3319.610	297	3364.500	289	3555.000	223	4139.190	546	4315.710	550
3320.600	298	3366.500	273	3565.005	221	4139.300	546	4315.720	550
3321.700	307	3366.540	273	3568.005	221	4139.350	546	4315.800	549
3321.705	307	3373.100	290	3569.005	221	4140.000	547	4315.810	549
3322.700	307	3373.500	290	3570.005	221	4140.010	547	4315.820	549
3322.705	307	3374.100	291	3571.005	221	4140.020	547	4315.830	549
3328.500	270	3374.110	291	3572.005	221	4140.110	547	4315.840	549
3328.503	276	3374.500	292	3573.005	221	4140.120	547	4315.850	549
3328.504	278	3374.504	291	3574.005	221	4140.210	547	4315.860	549
3328.510	270	3375.100	292	3575.005	221	4140.220	547	4316.000	562
3328.513	276	3375.500	292	3576.005	221	4140.810	548	4317.000	562
3328.514	278	3375.510	292	3577.005	221	4140.820	548	4318.000	562
3328.540	271	3378.200	296	3578.005	221	4140.830	548	4319.090	576
3328.544	278	3378.280	296	3579.005	221	4140.840	548	4319.120	576
3328.600	271	3382.500	279	3580.000	218	4155.010	546	4319.160	576
3328.640	271	3382.510	279	3580.100	218	4155.110	546	4319.200	576
3329.500	271	3382.600	279	3581.000	218	4155.510	546	4320.700	561
3329.503	276	3383.500	280	3581.100	218	4157.000	538	4321.700	561
3329.504	278	3383.510	280	3582.000	218	4162.000	538	4323.700	561
3329.510	271	3383.540	280	3582.020	218	4163.000	538	4333.120	511
3329.513	276	3383.600	280	3583.000	218	4164.000	538	4333.160	511
3329.514	278	3384.500	281	3584.000	218	4165.000	538	4333.180	511
3329.540	271	3384.510	281	3584.020	218	4166.000	538	4336.000	574
3329.544	278	3384.540	281	3585.005	218	4169.000	526	4338.000	574
3329.600	271	3384.600	281	3585.020	218	4169.500	527	4339.000	574
3329.640	271	3385.500	282	3586.005	218	4170.000	526	4347.000	529
3332.540	272	3385.510	282	3586.020	218	4170.500	527	4348.000	551
3332.640	272	3385.540	282	4000.100	164	4171.000	526	4361.000	529
3334.600	298	3385.600	282	4000.200	164	4171.500	527	4362.000	529
3334.660	298	3385.640	282	4000.210	164	4172.000	526	4363.000	529
3335.790	300	3386.540	283	4114.000	497	4172.500	527	4364.000	528
3335.830	300	3386.640	283	4115.000	497	4173.000	526	4365.000	528
3335.840	300	3387.540	283	4115.500	497	4174.000	526	4367.000	528
3335.850	300	3387.640	283	4116.000	497	4175.000	526	4373.000	528
3335.860	301	3439.010	203	4116.500	497	4176.000	526	4374.000	527
3335.870	301	3450.500	223	4118.000	497	4177.000	526	4375.000	527
3335.880	301	3451.500	223	4118.500	497	4178.000	526	4376.000	527
3335.890	301	3452.500	223	4119.000	538	4179.000	538	4377.000	527
3340.230	254	3453.500	223	4120.000	495	4180.000	538	4378.000	527
3341.115	254	3454.500	223	4123.000	497	4181.000	535	4379.000	527
3341.230	254	3455.500	223	4124.000	497	4182.000	534	4380.000	527
3342.024	254	3456.500	223	4127.010	550	4183.000	535	4381.000	527
3342.230	254	3457.500	223	4127.210	550	4191.000	574	4382.000	527
3342.500	254	3458.500	223	4133.000	536	4192.000	574	4393.000	526
3350.230	255	3459.500	223	4134.000	536	4193.000	574	4394.000	529
3351.230	255	3504.000	220	4138.140	546	4196.000	574	4395.000	529
3352.230	255	3505.000	220	4138.150	546	4198.000	502	4396.000	529
3352.500	255	3509.000	219	4138.180	546	4199.000	536	4396.500	529
3355.100	320	3514.000	220	4138.190	546	4309.000	525	4398.000	529
3357.100	320	3515.000	220	4138.240	546	4311.000	562	4398.500	529

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4532.000	531	5001.160	447	5501.320	439	5511.220	93	6107.200	606
4538.000	498	5001.210	441	5501.350	439	5512.220	93	6108.000	539
4540.000	464	5001.211	441	5501.400	596	5513.210	91	6112.500	158
4568.000	502	5001.212	441	5501.410	596	5514.210	91	6143.310	159
4568.500	502	5001.213	441	5501.420	596	5515.210	91	6144.100	159
4576.000	509	5001.214	441	5501.430	596	5516.210	91	6147.000	159
4579.000	525	5001.215	441	5501.440	596	5830.500	80	6148.000	436
4582.000	464	5001.216	441	5501.450	596	5830.580	82	6205.100	532
4582.500	464	5001.217	441	5501.460	596	5831.500	80	6206.025	139
4583.000	497	5001.218	441	5501.480	596	5831.580	82	6206.050	139
4583.500	497	5001.219	441	5501.615	542	5832.500	80	6206.100	139
4590.700	507	5001.220	441	5501.625	542	5833.500	80	6206.200	139
4591.700	507	5001.221	441	5501.655	541	5834.500	80	6206.300	139
4592.700	507	5001.222	441	5501.665	541	5834.580	82	6206.320	139
4593.000	509	5001.223	441	5501.675	541	5840.500	81	6206.340	139
4594.000	525	5001.224	441	5501.685	541	5841.500	81	6206.360	139
4595.000	505	5001.225	441	5501.695	541	5842.500	81	6206.380	139
4596.000	525	5001.226	561	5501.705	541	5843.500	81	6206.400	139
4597.000	531	5001.227	561	5501.715	541	5844.500	81	6206.420	153
4598.000	525	5001.228	561	5501.725	541	5845.500	81	6206.440	139
4599.000	525	5001.229	561	5501.730	544	5846.500	81	6206.460	154
4612.000	435	5001.233	441	5501.805	601	5850.500	179	6206.480	148
4638.600	495	5001.234	441	5501.815	601	5850.580	180	6206.500	149
4638.800	495	5001.235	441	5501.825	601	5851.500	179	6206.600	139
4694.000	525	5001.236	441	5501.835	601	5852.500	179	6206.620	139
4695.000	525	5001.237	561	5501.895	601	5852.580	180	6206.640	150
4696.000	525	5001.239	443	5502.015	357	5853.500	179	6206.700	139
4697.000	525	5001.240	443	5502.025	357	5853.580	180	6206.740	139
4911.000	459	5001.310	499	5502.105	582	5854.500	179	6206.800	139
4911.100	459	5001.330	499	5502.115	583	5855.500	179	6206.820	139
4912.000	459	5001.350	499	5502.120	580	6002.000	613	6206.900	620
4916.000	459	5001.360	499	5502.145	582	6002.130	610	6212.025	143
4918.000	459	5001.370	524	5502.205	584	6003.000	614	6212.050	143
4920.000	459	5001.371	524	5502.225	585	6005.500	506	6212.100	143
4933.000	530	5110.500	52	5502.235	585	6013.000	607	6212.110	143
4934.000	530	5111.500	52	5502.245	585	6013.100	607	6212.150	143
4935.000	530	5113.500	52	5502.255	586	6016.200	506	6212.200	143
4937.000	530	5115.500	52	5502.265	586	6016.600	153	6212.210	143
4943.000	528	5117.500	52	5502.305	599	6016.700	153	6212.300	143
4944.000	528	5120.500	53	5502.325	599	6027.000	608	6212.320	143
4945.000	528	5122.500	53	5502.405	577	6027.010	608	6212.380	143
4946.000	528	5123.500	53	5502.510	443	6028.000	608	6212.500	149
4947.000	528	5366.000	115	5502.530	444	6028.010	608	6212.520	149
5001.000	492	5366.100	115	5502.540	445	6028.014	608	6212.540	150
5001.050	521	5366.200	115	5502.550	445	6028.015	608	6212.600	143
5001.051	521	5366.300	115	5502.560	446	6028.016	608	6212.620	143
5001.052	521	5366.400	115	5502.570	446	6052.000	575	6212.640	151
5001.053	521	5368.000	115	5503.220	92	6052.500	571	6212.700	143
5001.054	521	5501.005	452	5504.210	90	6053.300	609	6212.720	143
5001.060	483	5501.015	452	5504.220	92	6053.800	609	6212.740	143
5001.061	483	5501.025	452	5505.220	92	6058.800	609	6212.760	143
5001.062	483	5501.035	452	5506.220	93	6071.600	151	6212.800	143
5001.075	511	5501.045	452	5507.220	93	6106.100	156	6212.820	143
5001.080	574	5501.055	452	5508.210	90	6106.110	159	6212.900	620
5001.081	574	5501.065	452	5508.220	92	6106.200	156	6218.050	147
5001.082	574	5501.075	452	5509.210	90	6106.300	157	6218.100	147
5001.083	574	5501.200	467	5509.220	93	6106.400	156	6218.110	147
5001.130	447	5501.210	467	5510.210	90	6106.500	158	6218.150	147
5001.140	447	5501.300	439	5510.220	92	6107.000	606	6218.200	147

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6218.600	147	6665.000	133	7030.130	368	7163.500	544	7507.100	96
6218.620	147	6665.500	133	7030.140	368	7163.550	544	7507.110	96
6218.640	151	6700.500	109	7030.150	368	7163.560	544	7507.120	97
6218.700	147	6701.500	110	7030.190	368	7163.565	544	7507.200	97
6218.740	147	6702.500	111	7030.200	370	7164.035	540	7507.210	97
6218.820	147	6703.500	112	7030.220	370	7165.035	540	7507.220	97
6315.100	120	6704.500	109	7030.230	370	7166.035	540	7507.706	595
6315.200	120	6705.500	110	7030.240	375	7166.735	540	7507.709	595
6315.300	120	6706.500	111	7030.241	375	7170.535	604	7507.712	595
6315.400	121	6707.500	112	7030.250	375	7178.535	604	7507.715	595
6315.600	121	6710.500	109	7030.261	375	7184.035	540	7507.718	595
6320.000	120	6711.500	110	7030.400	368	7185.035	540	7507.721	595
6320.300	120	6712.500	111	7030.430	368	7186.035	540	7541.000	558
6320.400	121	6713.500	112	7030.440	368	7186.735	540	7542.000	558
6320.500	121	6714.500	109	7030.480	371	7200.215	372	7543.000	558
6320.600	121	6715.500	110	7030.490	371	7200.800	484	7545.000	558
6321.000	122	6716.500	111	7030.500	375	7200.801	484	7546.000	558
6372.541	124	6717.500	112	7030.550	378	7220.500	581	7547.000	558
6372.542	124	6720.500	109	7030.570	373	7220.600	579	7548.000	558
6372.543	124	6721.500	110	7061.000	543	7246.400	599	7548.210	556
6372.551	125	6722.500	111	7063.200	583	7246.420	598	7549.000	558
6372.552	125	6723.500	112	7063.850	542	7255.035	583	7583.500	431
6372.553	125	6730.030	447	7065.000	543	7256.035	586	7641.000	102
6372.561	125	6730.110	447	7072.100	569	7257.005	584	7643.000	102
6372.562	125	6730.120	447	7072.200	567	7257.035	584	7645.000	102
6372.563	125	6730.130	447	7072.220	576	7257.100	584	7705.035	567
6375.010	605	6730.310	513	7072.230	576	7257.105	584	7705.110	485
6446.030	611	6730.330	513	7072.240	576	7281.035	615	7705.120	485
6501.000	131	6730.340	513	7077.000	575	7281.200	614	7705.235	566
6501.020	131	6731.120	114	7078.000	575	7282.035	599	7706.135	99
6501.050	131	6740.500	113	7081.000	543	7283.035	599	7709.135	99
6501.070	131	6742.500	113	7094.100	602	7284.135	595	7709.535	98
6501.110	131	6746.500	113	7094.120	602	7296.000	591	7709.735	98
6501.120	131	6748.500	113	7094.140	602	7297.000	591	7712.135	99
6501.130	131	6902.100	159	7097.000	575	7298.000	591	7715.135	99
6501.140	131	6902.300	159	7097.220	575	7299.000	591	7715.535	98
6501.150	131	6902.500	159	7097.260	575	7320.530	369	7715.735	98
6501.160	131	7000.990	602	7097.300	575	7320.570	369	7721.135	99
6505.100	608	7016.100	586	7097.340	575	7320.721	370	7721.535	98
6505.200	608	7016.110	586	7098.000	575	7320.793	376	7721.735	98
6505.500	608	7030.000	366	7098.100	575	7320.794	376	7752.950	558
6508.010	148	7030.010	366	7099.000	575	7320.814	372	7824.520	492
6510.210	152	7030.040	367	7109.035	315	7338.121	387	7824.525	492
6510.330	152	7030.050	367	7111.000	579	7338.130	387	7824.540	466
6510.340	152	7030.051	371	7111.212	582	7338.221	387	7825.250	434
6514.200	612	7030.060	371	7111.214	582	7338.321	387	7825.360	447
6528.410	152	7030.070	372	7111.300	577	7391.000	94	7825.375	567
6535.010	183	7030.071	373	7111.900	579	7396.000	94	7825.380	447
6536.010	183	7030.080	371	7112.000	579	7400.000	94	7825.381	447
6538.010	183	7030.087	372	7113.000	557	7445.000	94	7825.387	447
6539.010	183	7030.090	371	7115.000	544	7465.035	540	7825.900	436
6660.010	133	7030.091	371	7116.500	580	7466.735	540	7827.181	594
6660.050	133	7030.092	371	7149.135	585	7486.035	540	7827.201	594
6663.000	133	7030.093	371	7151.035	603	7486.735	540	7827.221	594
6663.400	133	7030.094	371	7151.110	603	7495.000	436	7827.300	543
6663.500	133	7030.095	371	7152.035	603	7501.000	95	7827.480	594
6664.000	133	7030.100	369	7153.035	603	7507.000	96	7828.060	529
6664.100	133	7030.110	368	7156.035	603	7507.010	96	7828.080	529
6664.300	133	7030.111	368	7161.000	543	7507.020	97	7828.100	529

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7829.100	557	8017.607	172	8018.247	449	8100.235	450	8600.265	429
7829.110	557	8017.608	171	8018.250	449	8100.300	425	8600.455	429
7829.150	556	8017.610	171	8018.251	449	8100.400	425	8600.465	429
7829.200	556	8017.611	172	8018.252	449	8100.500	425	8600.510	429
7857.421	379	8017.612	172	8018.254	449	8100.600	425	8600.520	429
7857.998	386	8017.613	171	8018.256	449	8100.602	425	8600.655	429
7858.100	589	8017.614	171	8018.258	449	8100.800	425	8600.665	429
7890.020	378	8017.615	172	8018.444	475	8100.802	425	8600.855	429
7890.242	378	8017.616	171	8018.445	475	8104.235	450	8600.865	429
7890.247	378	8017.617	172	8018.447	475	8105.235	450	8601.000	427
7890.500	378	8017.618	172	8018.448	475	8106.235	450	8601.030	428
7967.000	502	8017.619	172	8018.453	475	8108.235	450	8601.040	428
7968.035	357	8017.620	171	8018.454	475	8115.235	450	8601.050	428
7980.000	358	8017.621	172	8018.459	475	8126.235	450	8601.060	428
7980.100	358	8017.622	172	8018.460	475	8128.235	450	8601.080	428
7980.110	358	8018.097	31	8018.462	475	8145.235	450	8601.100	428
7990.101	379	8018.098	31	8018.463	475	8146.235	450	8601.130	431
7990.103	379	8018.099	31	8018.474	172	8148.235	450	8601.140	431
7990.201	379	8018.100	32	8018.478	172	8165.235	450	8601.200	427
7990.203	379	8018.101	32	8018.515	172	8166.235	450	8601.300	427
7990.206	379	8018.102	32	8018.521	172	8168.235	450	8601.400	427
7990.208	379	8018.103	31	8018.577	487	8170.235	450	8601.450	434
7990.301	379	8018.104	31	8018.578	487	8173.235	450	8601.500	427
7990.303	379	8018.105	31	8018.579	487	8174.235	450	8601.600	427
7990.306	379	8018.107	31	8018.580	487	8175.235	450	8601.680	434
7990.308	379	8018.108	170	8018.581	487	8176.235	450	8601.800	427
7995.992	384	8018.109	169	8018.585	32	8180.235	450	8601.850	427
7998.106	336	8018.110	169	8018.691	487	8184.235	450	8601.860	554
7998.107	336	8018.111	170	8018.692	174	8185.235	450	8601.915	427
7998.206	338	8018.112	170	8018.693	174	8186.235	450	8601.920	427
7998.306	337	8018.113	170	8018.695	174	8188.235	450	8601.980	427
7998.307	337	8018.119	31	8018.696	174	8200.000	425	8602.000	427
7998.406	336	8018.120	31	8018.697	174	8200.010	425	8602.030	428
7998.407	336	8018.121	31	8018.699	174	8200.120	425	8602.040	428
7998.506	338	8018.122	31	8018.702	174	8200.300	425	8602.050	428
7998.606	337	8018.123	31	8018.706	174	8200.400	425	8602.060	428
7998.607	337	8018.125	32	8018.708	174	8200.500	425	8602.080	428
7999.009	382	8018.126	32	8018.709	174	8200.600	425	8602.100	427
7999.709	383	8018.129	169	8018.790	503	8200.800	425	8602.200	427
7999.898	384	8018.130	169	8018.791	503	8204.500	70	8602.400	427
7999.922	356	8018.131	169	8018.795	79	8205.500	71	8602.500	427
8000.100	425	8018.132	169	8018.799	79	8206.500	72	8602.600	427
8000.500	437	8018.133	169	8018.800	79	8208.500	73	8602.800	427
8004.500	70	8018.134	169	8018.859	493	8215.500	65	8602.850	427
8005.435	71	8018.136	169	8018.860	493	8225.500	74	8602.915	427
8005.500	71	8018.138	169	8018.903	172	8226.500	75	8602.920	427
8006.500	72	8018.139	170	8018.973	490	8228.500	76	8602.980	427
8006.530	72	8018.140	170	8018.974	490	8245.500	65	8604.500	70
8006.548	78	8018.168	487	8018.982	487	8265.500	66	8605.500	71
8008.530	73	8018.234	449	8025.500	74	8284.500	67	8606.500	72
8015.400	124	8018.236	449	8026.500	75	8285.500	68	8606.548	78
8015.401	124	8018.237	449	8028.500	76	8286.500	69	8608.500	73
8015.416	608	8018.238	449	8080.500	67	8405.500	71	8609.020	457
8017.600	172	8018.239	449	8084.500	67	8405.510	71	8609.030	457
8017.601	172	8018.240	449	8085.500	68	8406.510	72	8609.040	454
8017.602	172	8018.242	449	8100.000	425	8430.510	77	8609.050	454
8017.603	172	8018.243	449	8100.010	425	8438.510	77	8609.060	454
8017.604	172	8018.244	449	8100.120	425	8485.510	68	8609.080	454
8017.605	172	8018.245	449	8100.160	425	8486.510	69	8609.100	455
8017.606	172	8018.246	449	8100.180	425	8600.255	429	8609.110	455

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8609.130	455	8612.260	525	8700.160	466	8800.570	572	8802.220	510
8609.140	456	8612.280	525	8700.840	451	8800.580	600	8802.260	510
8609.150	456	8612.400	531	8700.850	451	8800.590	461	8802.280	510
8609.160	456	8612.410	531	8701.000	432	8800.600	552	8804.500	70
8609.170	456	8612.500	523	8701.040	432	8800.610	508	8805.500	71
8609.260	454	8612.520	523	8701.050	432	8800.620	552	8806.500	72
8609.390	456	8612.550	523	8701.060	432	8800.630	508	8806.548	78
8609.840	454	8612.560	523	8701.080	432	8800.640	528	8808.500	73
8609.850	454	8612.580	523	8701.180	492	8800.650	528	8815.500	65
8609.860	454	8612.650	523	8701.200	432	8800.660	552	8825.500	74
8610.605	467	8612.660	523	8701.600	432	8800.670	465	8826.500	75
8610.625	467	8612.680	523	8701.800	432	8800.680	552	8828.500	76
8610.685	467	8612.750	524	8702.000	432	8800.690	551	8828.548	78
8610.805	467	8612.760	524	8702.040	432	8800.710	492	8845.500	65
8610.825	467	8612.780	524	8702.050	432	8800.750	573	8865.500	66
8610.885	467	8612.960	530	8702.060	432	8800.751	573	8880.500	68
8611.020	482	8612.980	530	8702.200	432	8800.752	573	8881.500	69
8611.045	482	8613.000	592	8702.600	432	8800.753	573	8884.500	67
8611.070	482	8613.010	593	8702.800	432	8800.754	573	8885.500	68
8611.080	467	8613.030	593	8800.020	492	8800.806	533	8886.500	69
8611.100	488	8613.040	593	8800.040	468	8800.808	533	8901.210	67
8611.110	488	8613.060	592	8800.050	508	8800.825	466	8901.220	68
8611.120	488	8613.080	592	8800.060	561	8800.830	439	8901.230	69
8611.130	488	8613.150	597	8800.070	484	8800.845	466	8901.260	68
8611.140	488	8613.160	597	8800.071	451	8800.855	466	8901.290	71
8611.150	488	8613.180	597	8800.075	439	8800.865	466	8901.400	72
8611.160	488	8613.300	593	8800.080	561	8800.870	465	8901.410	73
8611.170	488	8613.360	593	8800.090	508	8800.885	466	8901.420	71
8611.180	483	8613.860	554	8800.100	561	8800.900	540	8901.430	72
8611.190	483	8614.040	512	8800.110	452	8800.910	540	8901.440	73
8611.200	483	8614.050	512	8800.120	561	8800.920	431	8950.050	459
8611.210	484	8614.060	512	8800.130	525	8800.950	492	8950.060	459
8611.220	488	8614.100	513	8800.170	465	8801.230	471	8950.840	459
8611.280	482	8614.180	507	8800.190	492	8801.240	471	8950.850	459
8611.290	482	8614.200	507	8800.200	438	8801.250	471	9055.312	377
8611.300	467	8614.240	512	8800.220	437	8801.260	472	9093.006	452
8611.310	458	8614.250	512	8800.280	509	8801.310	319	9094.006	452
8611.330	482	8614.260	512	8800.290	437	8801.320	319	9095.006	452
8611.340	482	8614.640	512	8800.300	526	8801.330	319	9214.000	556
8611.350	482	8614.650	512	8800.310	526	8801.340	319	9266.000	504
8611.360	482	8614.660	512	8800.320	526	8801.350	319	9301.000	186
8611.370	484	8614.675	512	8800.330	535	8801.380	319	9302.000	186
8612.000	522	8614.680	512	8800.340	538	8801.450	468	9303.000	186
8612.010	522	8614.840	512	8800.350	538	8801.715	472	9304.000	186
8612.020	522	8614.850	512	8800.360	533	8801.735	501	9305.000	186
8612.040	522	8614.880	512	8800.370	534	8801.745	501	9306.000	186
8612.050	522	8615.500	65	8800.380	526	8801.755	501	9320.020	220
8612.060	522	8625.500	74	8800.390	429	8801.765	501	9320.030	220
8612.070	522	8626.500	75	8800.400	461	8801.775	501	9320.060	220
8612.080	522	8628.500	76	8800.410	461	8801.915	472	9320.070	220
8612.090	522	8645.500	65	8800.420	462	8802.060	562	9320.120	227
8612.100	522	8665.500	66	8800.430	463	8802.065	563	9340.000	198
8612.120	522	8684.500	67	8800.470	464	8802.080	562	9340.010	198
8612.130	522	8685.500	68	8800.490	462	8802.085	563	9340.030	217
8612.140	522	8686.500	69	8800.500	461	8802.100	562	9340.040	217
8612.150	522	8700.000	462	8800.510	572	8802.105	563	9340.050	198
8612.160	522	8700.010	451	8800.520	572	8802.120	562	9340.070	199
8612.180	522	8700.060	451	8800.531	573	8802.125	563	9340.090	217
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9340.120	222	9342.220	202	9401.600	187	9640.231	229	9650.340	230
9340.130	222	9342.240	202	9402.600	187	9640.236	229	9650.360	229
9340.140	222	9342.250	203	9403.600	187	9640.241	229	9650.370	230
9340.170	222	9342.270	203	9404.600	187	9640.246	229	9650.380	230
9340.200	222	9342.280	203	9405.600	187	9640.251	229	9650.900	230
9340.210	222	9342.300	203	9406.600	187	9640.256	229	9650.905	230
9340.220	222	9342.310	203	9407.600	187	9640.261	229	9650.910	230
9340.230	222	9342.311	224	9408.600	187	9640.266	229	9650.920	230
9340.260	207	9342.320	203	9409.600	187	9640.271	229	9650.980	230
9340.270	207	9342.321	224	9500.000	24	9640.276	229	9650.990	230
9340.280	226	9342.400	208	9502.000	24	9640.281	229	9659.000	229
9340.290	225	9342.410	208	9504.000	24	9640.286	229	9659.010	229
9340.300	207	9342.540	208	9505.000	24	9640.291	229	9659.060	229
9340.310	204	9342.550	208	9506.000	24	9640.296	229	9659.160	229
9340.320	204	9342.560	227	9507.000	24	9640.301	229	9659.360	229
9340.340	204	9342.570	227	9508.000	24	9640.306	229	9661.230	559
9340.350	205	9342.640	227	9509.000	24	9640.311	229	9661.235	559
9340.370	204	9342.720	227	9510.000	24	9640.316	229	9661.300	559
9340.380	205	9342.800	226	9511.000	24	9640.325	230	9661.305	559
9340.390	205	9342.810	226	9512.000	24	9640.330	230	9661.320	559
9340.400	204	9342.820	226	9513.000	24	9640.340	230	9661.325	559
9340.410	206	9342.850	225	9514.000	25	9640.350	230	9661.340	559
9340.430	206	9342.860	225	9514.100	25	9640.360	229	9661.345	559
9340.450	206	9342.870	225	9515.000	25	9640.365	229	9661.350	560
9340.460	205	9342.880	225	9515.100	25	9640.370	230	9661.355	560
9340.470	205	9342.920	225	9516.000	25	9640.380	230	9661.360	559
9340.700	206	9342.930	225	9516.100	25	9640.900	230	9661.365	559
9340.710	205	9342.940	225	9517.000	25	9640.910	230	9661.380	559
9340.720	205	9342.950	225	9517.100	25	9640.920	230	9661.385	559
9340.730	205	9342.980	225	9518.000	25	9640.930	230	9671.204	470
9340.740	205	9343.000	213	9518.100	25	9640.940	230	9671.206	470
9340.750	205	9343.010	213	9519.000	25	9640.970	230	9671.208	470
9340.760	204	9343.110	214	9519.100	25	9640.980	230	9672.140	469
9340.770	205	9343.210	214	9520.000	25	9649.000	229	9672.141	469
9340.850	226	9343.310	214	9520.100	25	9649.010	229	9672.142	469
9340.860	226	9344.010	213	9521.000	25	9649.060	229	9672.143	469
9340.870	226	9344.110	214	9521.100	25	9649.160	229	9672.144	469
9340.880	226	9344.210	214	9522.000	25	9649.360	229	9672.146	469
9340.890	226	9344.310	214	9522.100	25	9650.050	229	9672.148	469
9341.000	200	9344.510	228	9523.000	25	9650.080	229	9672.150	469
9341.050	200	9344.520	228	9523.100	25	9650.098	229	9672.156	469
9341.070	201	9344.530	228	9524.000	25	9650.100	229	9672.158	469
9341.100	222	9344.540	228	9524.100	25	9650.150	229	9672.160	469
9341.110	222	9344.550	228	9548.000	26	9650.171	230	9672.161	469
9341.120	222	9344.680	228	9549.000	26	9650.181	230	9672.162	469
9341.130	222	9345.000	215	9550.000	26	9650.191	229	9672.163	469
9341.140	222	9345.010	215	9581.000	26	9650.201	229	9672.164	469
9341.170	222	9345.030	215	9583.000	26	9650.211	229	9672.166	469
9342.000	200	9345.100	216	9640.050	229	9650.221	229	9672.167	469
9342.030	217	9345.200	216	9640.080	229	9650.231	229	9672.168	469
9342.050	200	9345.400	216	9640.150	229	9650.241	229	9672.169	469
9342.070	201	9345.600	209	9640.171	230	9650.251	229	9672.170	469
9342.100	222	9345.610	209	9640.181	230	9650.261	229	9672.176	469
9342.110	222	9345.700	210	9640.191	229	9650.271	229	9672.178	469
9342.120	222	9345.710	210	9640.201	229	9650.281	229	9672.180	469
9342.130	222	9345.720	210	9640.206	229	9650.291	229	9672.181	469
9342.140	222	9345.730	210	9640.211	229	9650.301	229	9672.182	469
9342.170	222	9350.010	219	9640.216	229	9650.311	229	9672.183	469
9342.200	202	9350.060	219	9640.221	229	9650.325	230	9672.184	469

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9672.188	469	9970.847	344	OHS125C	449	WM242412NC	48	WM603616N4	172
9672.190	469	9970.989	436	OHS1506	449	WM242608X4	173	WM603616NC	49
9672.196	469	9971.044	453	OHS150C	449	WM242608XC	50	WM603812XC	51
9672.198	469	9971.048	453	OHS2006	449	WM243008NC	47	WM603816XC	51
9672.314	470	9971.067	597	OHS200C	449	WM244208NC	47	WMLHKL	487
9672.316	470	9971.104	345	OHS250C	449	WM302008NC	47	WMLHNL	487
9672.318	470	9978.360	579	OHS300C	449	WM302408N4	172	WMLHNS6	487
9672.324	470	9978.361	579	OHS350C	449	WM302408NC	47	WMLHPL	487
9672.326	470	9978.378	453	OHS400C	449	WM302410NC	48	WMLHPLS6	487
9672.328	470	9978.379	453	OHSMPBC	449	WM302412N4	172	WMLHPLS6	487
9672.334	471	9978.380	453	OHSSPBC	449	WM302412NC	48	WMPADRCs	490
9672.336	471	9978.383	453	TSFM634712NC	79	WM303008N4	172	WMPADRS6	490
9672.338	471	9978.384	453	TSFM634716NC	79	WM303008NC	47	WMQTKLS6	487
9672.344	471	9978.429	178	TSFM636316NC	79	WM303010N4	172	WMQTPLS6	487
9672.346	471	9978.431	178	WK05034	475	WM303010NC	48	WMS161208N4	174
9672.348	471	9978.432	178	WK0503C	475	WM303012NC	48	WMS161608N4	174
9676.971	230			WK09054	475	WM304210NC	48	WMS201612N4	174
9676.972	230	FDS1212C	493	WK0905C	475	WM304810NC	48	WMS202008N4	174
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9676.977	230	JB040403HC	31	WK17114	475	WM362410NC	48	WMS302412N4	174
9676.981	230	JB060403H4	169	WK1711C	475	WM362412NC	48	WMS363016N4	174
9676.982	230	JB060403HC	31	WK23154	475	WM363008N4	172	WMS483616N4	174
9676.983	230	JB060404H4	169	WK2315C	475	WM363008NC	47	WMS603616N4	174
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9676.987	230	JB060604H4	169	WM121206NC	46	WM363010NC	48	WMSMB6	503
9951.077	354	JB060604HC	31	WM161206N4	171	WM363012N4	172		
9957.324	601	JB080604H4	169	WM161206NC	46	WM363012NC	48		
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	7024	graphite grey
	7030	stone grey
	7032	pebble grey
	7033	cement grey
	7035	pale grey
	8019	grey brown
	9005	jet black
	9006	white aluminium
	9011	graphite black
	9017	traffic black

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