Rittal - The System.

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Blue e IoT Adaptor

The digital upgrade for cooling units in the Blue e series



Functional upgrade – digital retrofit

For many companies in the industrial space, digitalization is a hot topic. Facilities often have low levels of automation and investing in the latest machines is costly. Additionally, interlinking them can be a complex process.

However, existing machines and systems can also be digitally upgraded. By retrofitting current equipment with suitable sensors and communications technology, they may be readily integrated into a digital manufacturing network.

The IoT Adapter, in conjunction with the IoT Interface, allows existing Blue e cooling units to be easily incorporated into Industry 4.0 environments. This digital retrofit supports state-of-the-art condition monitoring and significantly boosts system availability.

Benefits of the digital retrofit

- Investment costs are lower than for a new purchase
- Logging of process and machine data for Industry 4.0
- Modernization and adaptation to current software and system standards

Benefits of smart networking

- Condition monitoring of up to 10 cooling units in a master/slave arrangement
- Continuous monitoring of temperature levels
- A swift response if threshold values are exceeded
- Automatic notification of any cooling unit malfunctions
- Temperature records and energy efficiency analysis
- Avoidance of downtime costs and consequential damage
- Remote access: Device parameters can be configured remotely

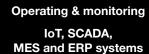


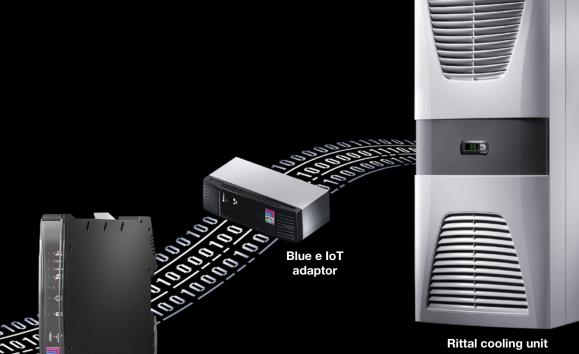
For more information about the IoT interface (3124.300)



For more information about the Blue e IoT adaptor (3124.310)









TopTherm wallmounted cooling unit Blue e



TopTherm wall-mounted cooling unit, horizontal format



TopTherm wallmounted cooling unit Blue e, slimline



Modular climate control concept - cooling module Blue e



TopTherm roofmounted cooling unit Blue e and/or for office applications



Blue e IoT adaptor

IoT interface

Rittal TopTherm cooling units Generation Blue e

Benefits of Blue e technology

- Energy savings of up to 45%
- Smart control with Comfort controller, icing protection and motor monitoring
- Longer service life of components in the enclosure and cooling units, because efficient components such as fans and compressors run at their optimum operating point
- Eco-mode control: The evaporator coil fan cycles as necessary, depending on the enclosure internal temperature
- The integral electric condensate evaporation system means that condensate evaporates and dissipates to the ambient air via the external fan
- RiNano coating prevents the accumulation of dirt deposits on the condenser, thereby extending maintenance intervals and ensuring a constant long-term cooling output

		Voltage			Carbon Steel		Stainless Steel		Mounting		Controller		Monitoring		Features	Installation			Approvals		
	Cooling		Tonag	Ī	Carbo	T	Otaline	133 01001	IVIOU	I	- 00	Introduct	IVIOIII			- "	Stallation		7	piovai	
Model No.	Capacity	115\/	3301/	400/	UL Type	UL Type	UL Type	UL Type	Wall-	Roof-	Pagio	e-	IoT	Blue e IoT	Integral	External	Partial	Full	cULus	CSA	CE
	Capacity	1130	230 V	460V	3R/4	12	12	4X	mounted	mounted	Basic	Comfort	Interface	Adaptor	Condensate Evaporation	External	Internal	Internal	Listed	CSA	CE
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3302.100	300W		•			•			•		•					•		•	•	•	•
3302.110	300W	•				•			•		•					•		•	•		•
3302.200	300W						-		•		-					•			•		
3302.210	300W	•					-		-		-							-			•
3302.300	300W		-													•		•	•		
3302.310	300W	•																•			•
3303.500	500W		•						•			•	-	-		•	•	-	-		•
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3303.610	500W	•					-		•			•	•	•		•			•	•	-
3303.504	500W		•					•	•			•	•	•		•			•		•
3303.514	500W	•							•				•	•		•			•		
3303.508	500W				-				-			•	-	-							•
3303.518	500W	•			•				•			•	•	-		•			-		-
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3361.510	750W	-			1	-			-			-	-	-		-	-	-	=		-
3361.540	750W				 				-				-	-		-	-	-		-	
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3361.640	750W			•			•		_			•		•		•		-	-	•	•
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3304.514	1000W	•						•	•		<u> </u>	•		-	•	•			-	•	•
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3304.508	1000W		•		•							•		•	-						•
3304.518	1000W	•			•				•					•		•			•		•
3304.548	1000W											•				•			•		•
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3328.510		•				•			•			•		•	•	•	•	-	•	•	•
3328.540				•		•			•			•	•	-	•	•	•	-	•	•	-
3328.600	2000W		-				-		•					-		•			•	•	
Material	Material			Sheet Steel, Outdoor	Sheet Steel	Steel.	Stainless Steel, AISI 316L														
Temperatu	Temperature			-4°F to +122°F	+5	50°F to +13	31ºF														
Display					Rear	Front	Front	Front													

Voltage		Carbon Steel Stainless Steel			ss Steel	Mounting Controller			Monit	toring	Integral	Instllation		Appro		s					
Model No.	Cooling Capacity	115V	230V	400/ 460V	UL Type 3R/4	UL Type 12	UL Type 12	UL Type 4X	Wall- mounted	Roof- mounted	Basic	e- Comfort	loT Interface	Blue e loT Adaptor	Condensate Evaporator	External	Partial Internal	Full Internal	cULus Listed	CSA	CE
3328.610	2000W	•					•		•			•	•	•	•	•	•	•	•	•	•
3328.640	2000W		•	•			-	•	•			-	•	-	-	-	•	•	-	-	
3328.504 3328.514	2000W 2000W	•	-									-	-		-	•			•	•	
3328.544	2000W			•					•			-	•	-	•	•			•	•	-
3329.500	2500W		•						•			•	•	•	•	•		•	•	•	•
3329.510	2500W	-		_		-			-			-	-	-	-	-	-	-	-	-	-
3329.540 3329.600	2500W 2500W			•		•	_		-				•	-	-	•		•	•	•	-
3329.610	2500W	•					-		-			-	-	-	•	-	•	-	-	-	-
3329.640	2500W			•			•		•			•	•	•	•	•	•	•	•	•	-
3329.504	2500W		•					•	•			-	•	-	•	•			•	•	•
3329.514 3329.544	2500W 2500W	-						•	•			-	•	-	-	•			-	•	-
3329.508	2500W			-	•			-	-			-	-	-	-	-			$\overline{}$		
3328.518	2500W	•			•				•			-	•	•	•	•			-		•
3329.548	2500W			•	•				•			•	•	•	•	•			•		•
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3332.640	4000W 1500W		•			•	_		-			-	-	-	-	-	•	•	÷	•	-
3366.510	1500W	•	_			-						-		-	-			-			
3366.540	1500W			-		•			•			•	•	•	•	•	•	•	•	•	•
3366.600	1500W		•				•		•			•	•	•	•	•	•	•	•	•	•
3366.610	1500W	-					-		-			-	-	-	-	-	-	-	-	-	
3366.640 3307.700	1500W		•			•	-		-			-	-		-	-	-	-	÷	-	-
3307.700	1500W	•	-			-			-			-	-	-	-	-			-		
3307.740	1500W			•		•			•			-	•	•	•	•			•	•	•
3310.700	2500W		•			-			•			-	•	•	•	•			•		•
3310.710 3310.740	2500W 2500W	-				•			-			-	-	-	-	-			-		•
3382.500	500W		-	-		-			-			-	-		-	-					-
3382.510	500W	•	_			-				-		-	-	-	-	-			-	-	
3382.600	500W		•				•			•		-	•	•	•	•			•	•	•
3382.610	500W	•					_			-		-	_	•	-	_			•	•	•
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3359.540	750W	-										-	-		-	-					
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3359.610	750W	-					•			•		-	•	-	•	•			-	•	•
3359.640	750W			-			_			-		-	-	-	-	-			_	-	-
3383.500 3383.510	1000W 1000W	-	-			-				-		-	-	•	-	-			-	-	-
3383.540	1000W	-		•		-				-		-	-	-	•	-			•	-	-
3383.600	1000W		•				•			•		-	-	•	•	-			-	•	•
3383.610		•					-			•		-	-	•	-	-			-	•	
3383.640	1000W		-	•		•	_			-		-	-	•	-	-			\div	•	-
3384.500 3384.510	1500W 1500W	•	•			-									-						
3384.540	1500W			-						•		•	•	•	•	•			•	•	•
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3385.500	2000W		-	_		•	_			-		-	-	-	-	-			÷	-	-
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3385.540	2000W			•		•				•		•	•	•	•	•			•	•	•
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3385.610 3385.640	2000W 2000W	•		-			•			•		-	•	•	•	•			•	•	•
3386.540	3000W			-		•				-		-	-	-	-	-			-	-	-
3386.640	3000W			•			•			•		•	•	•	•	•			•	•	•
3387.540	4000W			•		•				•		•	•	•		•			•	•	•
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0210.000	110011		_		Sheet		Stainless	Stainless		-		-	_	_					-		
Material					Steel, Outdoor	Sheet Steel	Steel,	Steel, AISI 316L													
					-4°F to																
Temperatu	ıre				+122°F	+5	60°F to +13	31°F												1	
Display Rear Front Front Front					P																
	1.000 1.000 1.000																				

Blue e loT adaptor Blue e loT adaptor

Control/regulation

Blue e IoT adaptor

The IoT interface is a central component for the intelligent networking of Rittal cooling solutions or sensors for monitoring physical ambient conditions. Equipped with a wide range of interfaces and protocols, it is used to collate and transmit data to superordinate IT systems or to systems for the local monitoring of machine statuses.

- Digitalization and networking offer huge opportunities for every company. With the IoT interface, Rittal cooling solutions and sensors for monitoring physical ambient conditions are easily connected to Industry 4.0 environments without affecting the automation
- Plug and run: The IoT interface is quickly and conveniently configured and commissioned via the integral Web server; no programming required.

Material:

- Plastic to UL 94-V0

Color:

- RAL 7016

Protection category IP to IEC 60 529:

Supply includes:

- Blue e IoT adaptor
- USB cable (USB-A connector on micro-USB-B
- Angle bracket for Blue e+ cooling unit

Note:

- The IoT interface is only supported by Blue e+ cooling units from firmware version 1.11.0 or above. If applicable, update the firmware using the RiDiag III software (3159.300).
- To interlink cooling units in the Blue e series, the Blue e IoT adaptor (3124.310) is additionally required

Assembly instruction:

- The IoT interface can be secured on a 35 x 7.5 top hat rail to DIN EN 60715 using a spring-loaded metal clip, or to the rear of a Blue e+ cooling unit using the



Accessories:

Blue e IoT adaptor, see page 7

H x W x D in (mm) 4.61 x 0.71 x 4.72 (117 x 18 x 120) TopTherm cooling units with e-Comfort controller Blue e+ chillers Smart Monitoring System for NH fuse-switch disconnectors For Rittal sensors Operating temperature range +0 °C...+70 °C OPC-UA/SNMPv1/SNMPv2c/SNMPv3/Modbus/TCP/TCP/IPv4/TCP/IPv6/Radius/Telnet/SSH/FTP/SFTP/HTTP/HTTPS/NTP/DHCP/DNS/SMTP/Syslog/LDAP Protocols 1 x Micro USB type B (device) for USB 2.0 1 x Micro-SD memory card slot for SD 2.0 1 x USB 2.0 high-speed functions (EHCI) Interfaces 1 x acknowledgment button 1 x push-in spring connection terminal for NTC sensor 2 x RJ45 jack for RS 485 interface (climate control unit interface) Ethernet IPv4/IPv6 Network interface Ethernet to IEEE 802.3 via 10BASE-T, 100BASE-T and 1000BASE-T 2 x RJ45 CAN bus Interface bus system Type of electrical connection Push-in spring connection terminal (24V DC) Weight lb (kg) 0.613 (0.201) Packs of 1 pc(s). Model No. 3124.300

Control/regulation

Blue e IoT adaptor

In conjunction with the IoT interface, the adaptor supports intelligent networking of cooling units in the Blue e series.

Benefits:

- Digitalization and networking offer huge opportunities for every company. In conjunction with the IoT interface (3124.300), cooling units in the Blue e series are easily connected to Industry 4.0 environments without affecting the automation logic.
- Plug and run: The IoT interface is quickly and conveniently configured and commissioned via the integral Web server; no programming required.
- Condition monitoring of up to 10 cooling units in a master/slave arrangement

Material:

- Plastic
- Front: Smooth
- Enclosure: Textured

Color:

- Front: RAL 9005 (Black)
- Enclosure: RAL 7035 (Light Gray)

Protection category IP to IEC 60 529:

Blue e IoT adaptor

Supply includes:

- Blue e IoT adaptor
- Installation and Short User's Guide
- Mounting bracket
- Assembly parts - Sub-D to RJ11 connection cable
- Mounting clips for securing top-hat rails



loT interface, see page 6



Model No.	3124.310							
Packs of	1 pc(s).							
Weight lb (kg)	0.443 (0.201)							
Interface bus system	2 x RJ45 CAN bus							
Operating temperature range	+0 °C+55 °C							
For	TopTherm cooling units with e-Comfort controller							
H x W x D in (mm)	1.18 x 3.15 x 1.57 (30 x 80 x 40)							
To fit Model No.	3303.5/6xx/3304.5/6xx/3305.5/6xx/3328.5/6xx/3329.5/6xx/3332.5/6xx/ 3361.5/6xx/3366.5/6xx/3377.5/6xx/3307.7xx/3310.7xx/3382.5/6xx/3359.5/6xx/ 3383.5/6xx/3273.500/3384.5/6xx/3385.5/6xx/3386.5/6xx/3387.5/6xx/9776.550							

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- Climate Control
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