Exhaust Cleaner AMC Series



Ensures clean plant air and reduces noise pollution; Over 35 dB (A) noise reduction Over 99.9% oil mist removal

		How	to Order						
AM	C 5 1 0 -		06						
Size ←		\top					Sufi	fix	
oymool Size oymool Size	read •——			<u> → Pc</u>	rt size		Symbol	Type	Note
2 1/4 std. 6 1 std. Sym		Thre	ad type	Symbol	Type	Size	Nil	_	_
3 3/8 std. 8 11/2 std. 1		Symbol	Type	02	Female	1/4	B ⁽²⁾	With bracket	Shipped together
5 3/4 std. 9 2 std. 20		Nil	R, Rc	03	Female	3/8	В	Willi bracket	(Not assembled)
Note	e 1) Female thread: Available	N	NPT		Male		D ⁽³⁾	Drain piping	
Specifications	only AMC220, 320, 520.	F	G	04	Female	1/2		Drain piping	_
Fluid	Compressed air		1	06	Female Male	3/4		BD when com	
Ambient and fluid temperature	5 to 60°C *			10	Male	1			to AMC810 and 91
Inlet pressure	0.1 MPa or less			14	Male	11/2	Note 3)	Without a valve	e function
Noise reduction	35 dB or more			20	Male	2			
Oil mist removal	99.9% or more				maio				
Filtration	0.3 µm (Trapping efficience	y: 95%)							
Exhaust of oil mist	Drain cock (Standard) Drai	n piping							
Option	Bracket **								
* It can operate in temperatures betwo of freezing the moisture in the air. ** Bracket not available on AMC810 ar Refer to page 829 for Specific Produ	nd 910.	risk	-						
Model/Male Thread Type		Model/F	Fema	le Thr	ead	Туре			

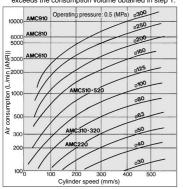
AMC310	AMC510	AMC610	AMC810	AMC910
16	55	165	330	550
3.2	11	33	66	110
300	1,000	3,000	6,000	10,000
3/8	3/4	1	11/2	2
0.2	0.5	0.7	1.2	1.7
AMC-EL3	AMC-EL5	AMC-EL6	AMC-EL8	AMC-EL9
BE30	BE50	BE60	-	-
	16 3.2 300 3/8 0.2 AMC-EL3	16 55 3.2 11 300 1,000 3/8 3/4 0.2 0.5 AMC-EL3 AMC-EL5	16 55 165 3.2 11 33 300 1,000 3,000 3/8 3/4 1 0.2 0.5 0.7 AMC-EL3 AMC-EL5 AMC-EL6 BE30 BE50 BE60	16 55 165 330 3.2 11 33 66 300 1,000 3,000 6,000 3/6 3/4 1 1½ 0.2 0.5 0.7 1.2 AMC-EL3 AMC-EL6 AMC-EL6 AMC-EL6 BE30 BE50 BE60 -

^{*} ANR: 20°C atmospheric pressure, relative humidity 65% Note) With 3 mounting screws

How to Select Condition: At operating pressure 0.5 MPa

Select a model according to the air consumption of the circuit to be used. 1. Obtain the air consumption of the actuator to be used. However, if an exhaust cleaner of the centralized piping type will be used, sum the air

consumption of the actuators that operate simultaneously. 2. Select a model that provides a maximum processing flow volume that exceeds the consumption volume obtained in step 1

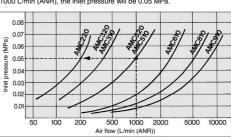


modely chare thread type										
Specifications Model	AMC220	AMC320	AMC520							
Effective area (mm²)	12	16	55							
Sonic conductance C [dm3/(s-bar)]	2.4	3.2	11							
Max. air flow (L/min (ANR))	200	300	1,000							
Port size	1/4	1/4, 3/8	1/2,3/4							
Weight (kg)	0.12	0.2	0.5							
Element part no.	AMC-EL2	AMC-EL3	AMC-EL5							
Bracket part no. Note)	BE20	BE30	BE50							
AND COOK I I	1.12	1 11 050/								

ANR: 20°C atmospheric pressure, relative humidity 65% Note) With 3 mounting screws

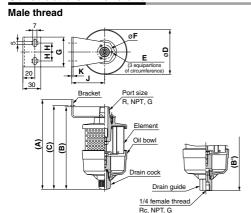
Flow Rate Characteristics (Initial conditions)

How to read the graph: If the AMC510 is operated at a flow volume of 1000 L/min (ANR), the inlet pressure will be 0.05 MPa.



AMC Series

Construction/Dimensions

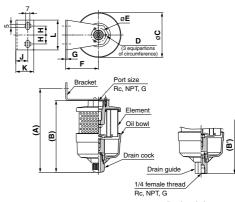


Drain piping type

	D		ь	В				oun	tina	hro	akat		Drain pi	ping
Model	Port	Α	P		С	D	IVI	Juli	ung	Dia	SKEL		B'	
	size		R NPT	G			E	F	G	Н	J	K	Rc NPT	G
AMC310	3/8	151	139	134	141	75	M3 x 0.5 Depth 8	24	50	15	55	2.3	142	137
AMC510	3/4	204	197	189	194	102	M4 x 0.7 Depth 10	40	70	20	70	3.2	200	192
AMC610	1	230	225	217	220	118	M4 x 0.7 Depth 10	48	70	20	80	3.2	228	220
AMC810	11/2	-	270	270		135	-	-	-	-	-	-	273	
AMC910	2	_	327	7	_	153	_	_	_	_	_	_	330	

Drain cock

Female thread

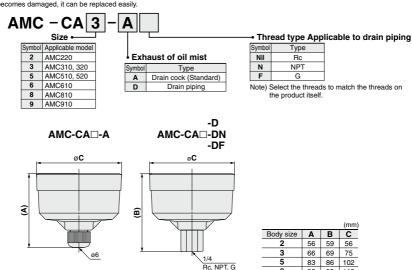


Drain piping type

	. .				Mounting bracket								Drain piping		
Model	Port size	Α	В	ВС		IVI	ourii	urig	Drac	kei				B'	
	SIZE				D	Е	F	G	н	J	Κ	L	Rc	NPT	G
AMC220	1/4	100		56	Depuilo	22	40	2.3	15	12	20	50		91	
AMC320	1/4,3/8	141	121	75	M3 x 0.5 Depth 8	24	55	2.3	15	20	30	50		124	
AMC520	1/2,3/4	194	174	102	M4 x 0.7 Depth 10	40	70	3.2	20	20	30	70		177	

How to Order Oil Bowl Assembly





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96 99 118

96 99 135

116 119 153



AMC Series Exhaust Cleaner Special Product Precautions

Be sure to read this before handling the products.

Design

⚠Warning

- The exhaust port could become blocked by the clogging of the exhaust cleaner.
 - Therefore, make sure to provide a safe design so as not to cause the whole system to malfunction.
- If compressed air exhausted from the solenoid valve is not clean clogging may occur,
- 3. Operate at a back pressure (inlet pressure) of 0.1 MPa or

Selection

∧ Caution

- Select an exhaust cleaner which is able to dispose of the maximum allowable flow capacity of compressed air exhausted from solenoid valve.
 - If the flow exceeds the maximum allowable flow for the exhaust cleaner, drainage and oil may be sprayed into the environment causing damage to equipment.
- Select a model which has a bigger effective area than that of the solenoid valve (including compound effective area).
- If this will be used with a centralized piping system, calculate the peak maximum air consumption by including the actuators that operate simultaneously and the capacity of the piping that is connected.

Then, select a model so that the calculated value will be less than the maximum flow volume of the exhaust cleaner. (Select a type with ample capacity because the exhaust speed will decrease when the element becomes cloqued.)

Mounting

↑ Caution

- Make sure not to apply a lateral load to the body during or after the installation.
- Take precautions so that the piping load is not be applied to the main body.

The attached bracket is for supporting the exhaust cleaner body only. Thus, it cannot support the piping or other items. If these items need to be supported, provide an additional support.

3. Exhaust cleaner must be mounted vertically.

If it is mounted diagonally, laterally, or inverted, the oil that is separated by the element will splash on the surroundings.

Maintenance

. Caution

- If the exhaust speed drops and the system performance decreases due to clogging, replace with a new element.
 - Make sure to verify the operating condition of the actuator at least once a day.
- The replacement interval for the element is when the internal pressure during exhaust reaches 0.1 MPa or after 1 year operation, whichever comes first.
- Provide a branch on the inlet side of the exhaust cleaner to mount a valve and a pressure gauge.
- During inspection, open the valve and check the pressure at the time of exhaust discharge.
- (The valve must remain closed except for inspection. The pressure gauge could break if the valve remains open.)
- If impact or vibration is applied to the product during installation, transport, or use, the oil bowl may come loose. Be sure to check whether the bowl has loosened at all before use.

AN

AMC AMV

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EXHAUST CLEANER SERIES NAMC

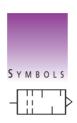




Max Operating Temperature	60°C / 140°F						
Noise Reduction	35dB or more						
Oil Mist Removal	99.9% or more						
Exhaust of Oil Mist	Drain cock						
Option	Bracket*						
*Bracket not available on NAMC810 and 910							

SERIES (N)AMC EXHAUST CLEANER

- Ensures Clean Plant Air and Noise Reduction of distributing noise contamination
- ✓ Over 35 dB Noise Reduction
 ✓ Over 99.9% Oil Mist Removal







Model			Male	Female				
Wodel	NAMC310	NAMC510	0 NAMC610 NA	NAMC810	NAMC910	NAMC220	NAMC320	NAMC520
Port Size NPT	3/8"	3/4"	1	1½	2	1/4"	1/4●3/8″	1/2 ● 3/4"
Max Air Flow (Nℓ/min)	300	1,000	3,000	6,000	10,000	200	300	1,000
Effective Orifice mm² (Cv)	16 (0.88)	55 (3.1)	165 (9.2)	330 (18.3)	550 (31)	12 (0.66)	16 (0.88)	55 (3.1)
Element Model No	635321	635521	635619	635812P	635917P	63522	635321	635521
Bracket Model No	BE30	BE50	BE60	-	-	BE20	BE30	BE50



FOR MORE TECHNICAL INFORMATION ON THIS SERIES, PLEASE CONSULT SMC CUSTOMER SERVICE

How To Order

EXHAUST CLEANER SERIES (N)AMC

