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							
	C 5 1 0 -	0	6							
Size •		Т'					→ Suf	fix		
Symbol Size Symbol Size	read •			<u> → Pc</u>	ort size		Symbol	Type	Note	
2 1/4 std. 6 1 std. Sym		Threa	nd type	Symbol		Size	Nil		_	
3 3/8 std. 8 11/2 std. 1		Symbol	Туре	02	Female	1/4	B ⁽²⁾	With bracket	Shipped together	
5 3/4 std. 9 2 std. 2		Nil	R, Rc	03	Female	3/8	В	with bracket	(Not assembled)	
Note	e 1) Female thread: Available	N	NPT		Male		D ⁽³⁾	Drain nining		
Specifications	only AMC220, 320, 520.	F	G	04	Female	1/2	D	Drain piping	_	
Fluid	_		06	Female	3/4	Indicate	BD when com	bining.		
Ambient and fluid temperature				Male	74	Note 2) Not applicable to AMC810 and				
Inlet pressure	5 to 60°C *			10	Male	1	Note 3)	Without a valve	e function	
Noise reduction	35 dB or more			14	Male	11/2				
Oil mist removal	99.9% or more			20	Male	2		_		
Filtration	0.3 μm (Trapping efficiency	v: 95%)						A STATE OF THE PARTY OF THE PAR		
Exhaust of oil mist	Drain cock (Standard) Drain						_			
Option	Bracket **	բ.բ9			-	El.	-			
* It can operate in temperatures betw of freezing the moisture in the air. ** Bracket not available on AMC810 ar	risk									
Refer to page 829 for Specific Produ	uct Precautions.			3	3		-	-		
Model/Male Thread Type	Model/F	Fema	ale Thr	ead	Туре					
Modell assessed as		****	0 15	_	Model	A 840	220	A 84 C 2 2 2 2	AMCEGO	

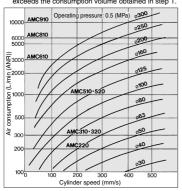
Specifications Model	AMC310	AMC510	AMC610	AMC810	AMC910							
Effective area (mm ²)	16	55	165	330	550							
Sonic conductance C [dm3/(s-bar)]	3.2	11	33	66	110							
Max. air flow (L/min (ANR))	300	1,000	3,000	6,000	10,000							
Port size	3/8	3/4	1	11/2	2							
Weight (kg)	0.2	0.5	0.7	1.2	1.7							
Element part no.	AMC-EL3	AMC-EL5	AMC-EL6	AMC-EL8	AMC-EL9							
Bracket part no. Note)	BE30	BE50	BE60	BE60 -								
AND COOL I	AND COCO I I I I I I I I I I I I I I I I I											

^{*} 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.

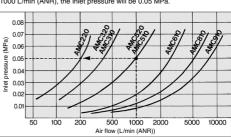


modely emale thread type											
Specifications Model	AMC220	AMC320	AMC520								
Effective area (mm ²)	12	16	55								
Sonic conductance C [dm ³ /(s-bar)]	2.4	3.2	11								
Max. air flow (L/min (ANR))	200	300	1,000								
Port size	1/4	1/4, 3/8	1/2,3/4								
Weight (kg)	0.12	0.2	0.5							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

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

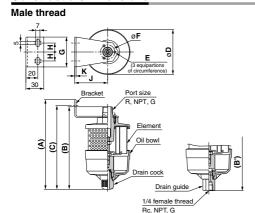
Flow Rate Characteristics (Initial conditions)

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 (mm)

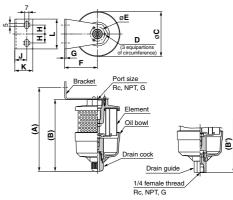
Exhaust of oil mist

Drain cock (Standard)

SMC

Model	Port		В					oun	Drain piping						
				Α			С	D	IVI	Juri	urig	Dra	sket		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		-	135	-	-	-	-	-	-	273	
	AMC910	2	-	327		-	153	-	_	-	-	-	-	330	1

Female thread



Drain piping type

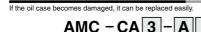
(mm																		
							Manuation bus steet									Drain piping		
Model	Port size	Α	В	С		Mounting bracket									B'			
	Size				D	Ε	F	G	Н	J	K	L	Rc	NPT	G			
AMC220	1/4	100	88	56	M3 x 0.5 Depth 8	22	40	2.3	15	12	20	50		91				
AMC320	1/4,3/8	141	121	75	M3 x 0.5 Depth 8	24	55	2.3	15	20	30	50		124				
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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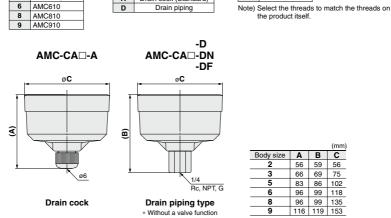
Size •

Symbol Applicable model

AMC220

AMC310, 320

AMC510, 520



Α

the product itself.

Thread type Applicable to drain piping

Туре

Rc

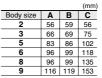
NPT

G

Nil

N

F





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,
- Operate at a back pressure (inlet pressure) of 0.1 MPa or less.

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.
- 2. 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.

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