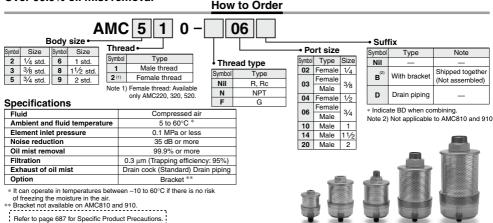
# Exhaust Cleaner Series AMC



AN

VCHN

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



#### Model/Male Thread Type

Specifications Model	AMC310	AMC510	AMC610	AMC810	AMC910
Effective area (mm <sup>2</sup> )	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	-	-

\* ANR: 20°C atmospheric pressure, relative humidity 65%

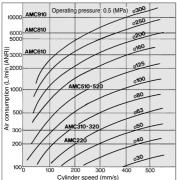
Note) With 3 mounting screws

#### 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.

 Select a model that provides a maximum processing flow volume that exceeds the consumption volume obtained in step 1.



#### Model/Female Thread Type

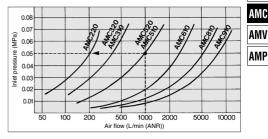
mouoly official type						
Specifications Model	AMC220	AMC320	AMC520			
Effective area (mm <sup>2</sup> )	12	16	55			
Sonic conductance C [dm3/(s-bar)]	2.4	3.2	11			
Max. air flow (L/min (ANR))	200	300	1,000			
Port size	1/4	1/4, 3/8	1/2, 3/4			
Weight (kg)	0.12	0.2	0.5			
Element part no.	AMC-EL2	AMC-EL3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

\* ANR: 20°C atmospheric pressure, relative humidity 65%

Note) With 3 mounting screws

#### Flow 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.

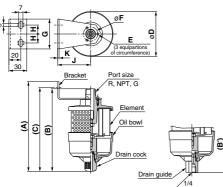


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sales@gentle.com.my

#### **Construction/Dimensions**



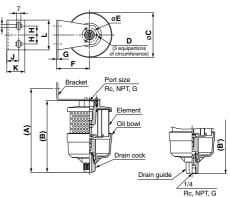


Rc, NPT, G

Drain piping type

	Port		в				Mounting bracket						Drain piping		
Model		A			C	D		Jun	ung	biu	Sitor			B'	
	size		R NPT	G	1		Е	F	G	н	J	к	Rc	NPT	G
AMC310	<sup>3</sup> /8	151	139	134	141	75	M3 x 0.5 Depth 8	24	50	15	55	2.3	14	12	137
AMC510	3⁄4	204	197	189	194		M4 x 0.7 Depth 10	40	70	20	70	3.2	20	00	192
AMC610	1	230	225	217	220	118	M4 x 0.7 Depth 10	48	70	20	80	3.2	22	28	220
AMC810	11/2	-	270	)	-	135	-	-	-	-	-	-	273		
AMC910	2	-	327	7	-	153	-	-	-	-	-	-	330		

#### Female thread

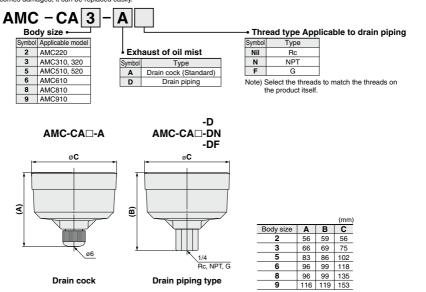


Drain piping type

Model Port A B C Mounting bracket E			
Model			
	B'		
size D E F G H J K L Rc N	ΥT G		
AMC220 1/4 100 88 56 M3 x 0.5 Depth 8 22 40 2.3 15 12 20 50 9	1		
Depth 8 - 1	124		
AMC520 1/2,3/4 194 174 102 M4 x 0.7 Depth 10 40 70 3.2 20 20 30 70 17	7		

#### How to Order Oil Bowl Assembly

If the oil case becomes damaged, it can be replaced easily.



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## Series AMC Exhaust Cleaner Special Product Precautions

Be sure to read before handling.

#### Design

## A Warning

1. 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.

- 2. 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 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 style with ample capacity because the exhaust speed will decrease when the element becomes clogged.)

#### Mounting

### Caution

- 1. Make sure not to apply a lateral load to the body during or after the installation.
- 2. 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.

 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 before the internal pressure during exhaust reaches 0.1 MPa or after 1 year operation, whichever comes first.
- Provide a branch on the supply 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.)

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## AIR PREPARATION: ACCESSORIES EXHAUST CLEANER SERIES NAMC



## SERIES (N)AMC EXHAUST CLEANER

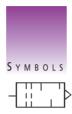
- Ensures Clean Plant Air and Noise Reduction
  - of distributing noise contamination Over 35 dB Noise Reduction
  - 🖉 Over 99.9% Oil Mist Removal



SPECIFICATIONS

TECHNICAL

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					





Model			Male	Female				
woder	NAMC310	NAMC510	NAMC610	NAMC810	NAMC910	NAMC220	NAMC320	NAMC520
Port Size NPT	3/8″	<sup>3</sup> /4 ″	1	1 1⁄2	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 mm <sup>2</sup> (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

Accessori	
SERIES (N)	AMC EXHAUST CLEANER
Element	

Element .....See "How To Order" Bracket .....See "How To Order"

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

How To Order Exhaust Cleaner Series (N)AMC

