

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

AMC 5 1 0 - 06

Size

Symbol	Size	Symbol	Size
2	1/4 std.	6	1 std.
3	3/8 std.	8	1 1/2 std.
5	3/4 std.	9	2 std.

Thread

Symbol	Type
1	Male thread
2 ⁽¹⁾	Female thread

Note 1) Female thread: Available only AMC220, 320, 520.

Thread type

Symbol	Type
Nil	R, Rc
N	NPT
F	G

Port size

Symbol	Type	Size
02	Female	1/4
03	Female	3/8
	Male	
04	Female	1/2
06	Female	3/4
	Male	
10	Male	1
14	Male	1 1/2
20	Male	2

Suffix

Symbol	Type	Note
Nil	—	—
B ⁽²⁾	With bracket	Shipped together (Not assembled)
D ⁽³⁾	Drain piping	—

Indicate BD when combining.
Note 2) Not applicable to AMC810 and 910
Note 3) Without a valve function

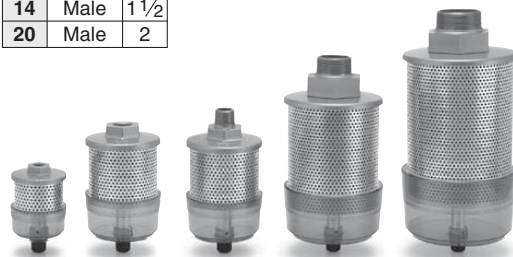
Specifications

Fluid	Compressed air
Ambient and fluid temperature	5 to 60°C *
Inlet pressure	0.1 MPa or less
Noise reduction	35 dB or more
Oil mist removal	99.9% or more
Filtration	0.3 μm (Trapping efficiency: 95%)
Exhaust of oil mist	Drain cock (Standard) Drain piping
Option	Bracket **

* It can operate in temperatures between -10 to 60°C if there is no risk of freezing the moisture in the air.

** Bracket not available on AMC810 and 910.

Refer to page 829 for Specific Product Precautions.



Model/Male Thread Type

Specifications	Model	AMC310	AMC510	AMC610	AMC810	AMC910
Effective area (mm²)		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	1 1/2	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

Model/Female 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

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

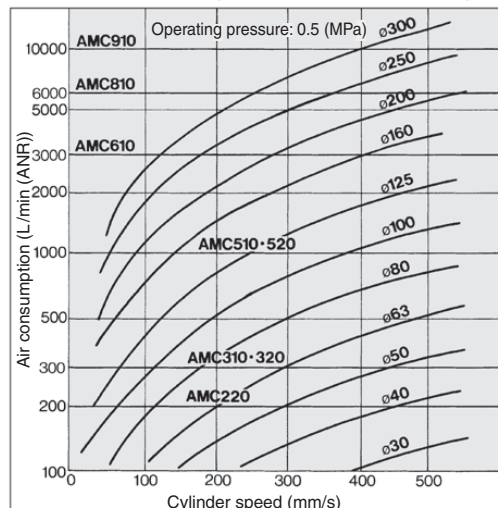
Note) With 3 mounting screws

How to Select

Condition: At operating pressure 0.5 MPa

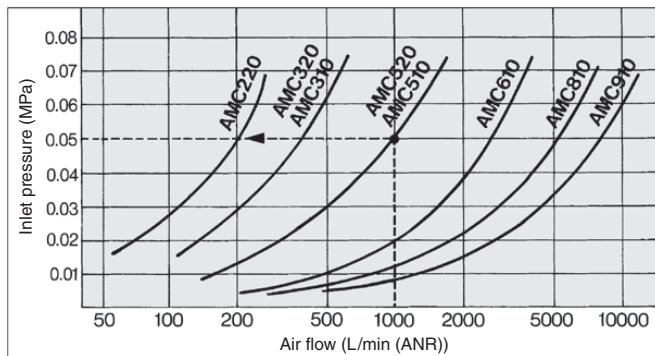
Select a model according to the air consumption of the circuit to be used.

- 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.



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.



AN

AMC

AMV

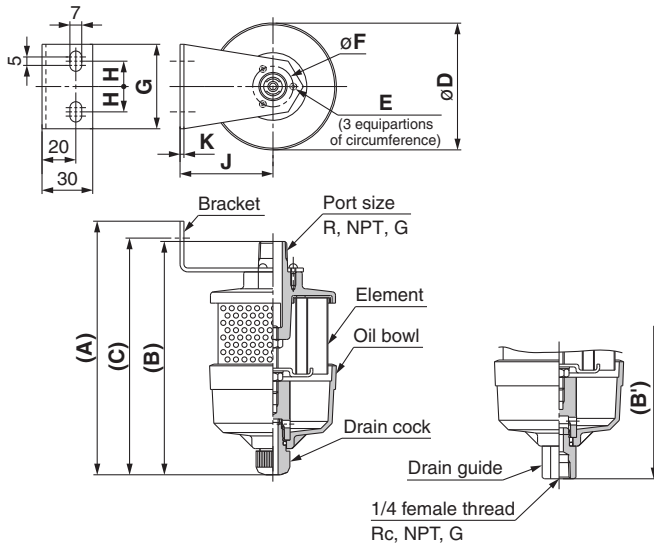
AMP

SFE

AMC Series

Construction/Dimensions

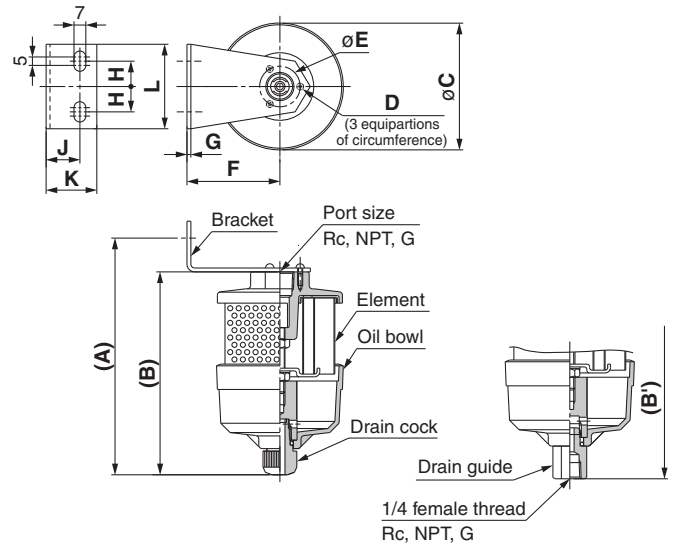
Male thread



Drain piping type

Model	Port size	A	B			C	D	Mounting bracket						Drain piping			
			R	NPT	G			E	F	G	H	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	1 1/2	-	270	-	135	-	-	-	-	-	-	-	273				
AMC910	2	-	327	-	153	-	-	-	-	-	-	-	330				

Female thread



Drain piping type

Model	Port size	A	B	C	D	E	F	G	H	J	K	L	Drain piping			
													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

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

AMC - CA **3** - **A**

Size

Symbol	Applicable model
2	AMC220
3	AMC310, 320
5	AMC510, 520
6	AMC610
8	AMC810
9	AMC910

Exhaust of oil mist

Symbol	Type
A	Drain cock (Standard)
D	Drain piping

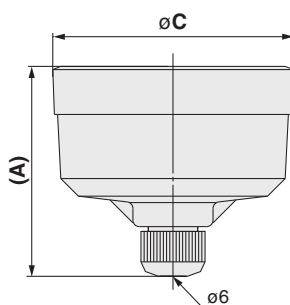
Thread type Applicable to drain piping

Symbol	Type
Nil	Rc
N	NPT
F	G

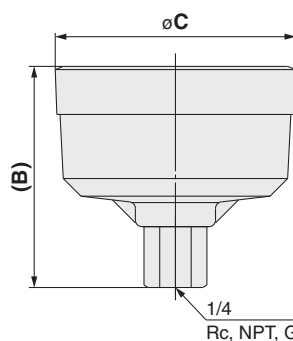
Note) Select the threads to match the threads on the product itself.

AMC-CA□-A

AMC-CA□-DN
-DF



Drain cock



Drain piping type

* Without a valve function

Body size	A	B	C
2	56	59	56
3	66	69	75
5	83	86	102
6	96	99	118
8	96	99	135
9	116	119	153