

Exhaust Cleaner for Clean Rooms
AMP Series



Exhaust Air Cleanliness Equivalent to Class 100
Piping Labor Reduced
Increased Space Savings
Worry Free Two Stage Element Construction

Series AMP

Exhaust Cleaner for Clean Rooms

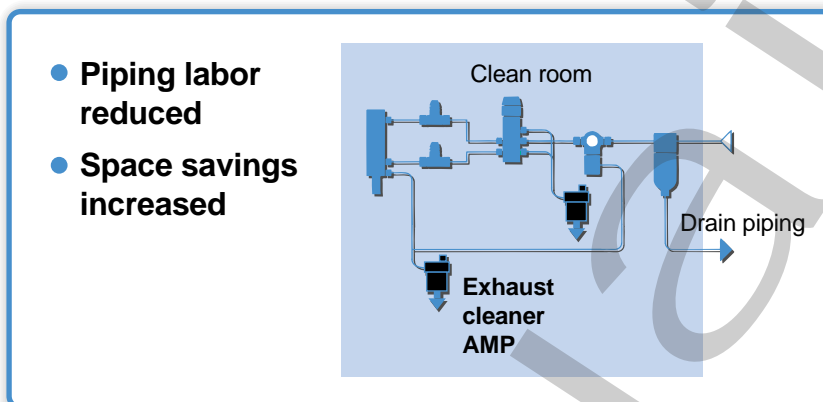
An exhaust cleaner that can be used inside a clean room

Exhaust air cleanliness: Equivalent to Class 100

(Consult P/A in advance, as this will differ depending on the operating conditions.)

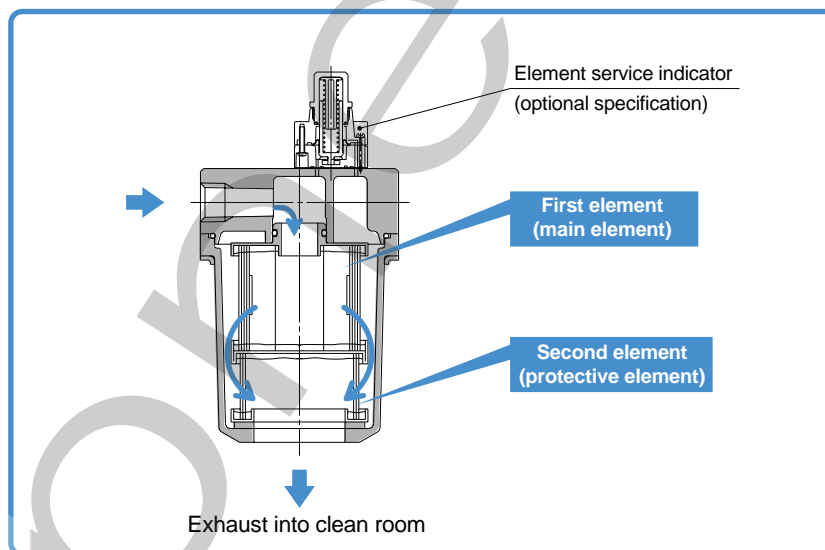
Particle density for particle of 0.3µm or larger is less than 3.5 particles/l

Since it is possible to release exhaust air from pneumatic equipment directly into a clean room, piping to exhaust ducts is unnecessary.



Worry free two stage element construction

After the first element is saturated with oil, the oil flowing into the secondary side is collected by the second element. This prevents discharge to the outside for a fixed time.



With indicator function

The element life (standard) can be visually confirmed.

Element service indicator

Element clogging is detected by a pressure differential, and indicated by a red symbol. (optional specification)

First element

Oil saturation of the element is indicated by red dots.

Series variations

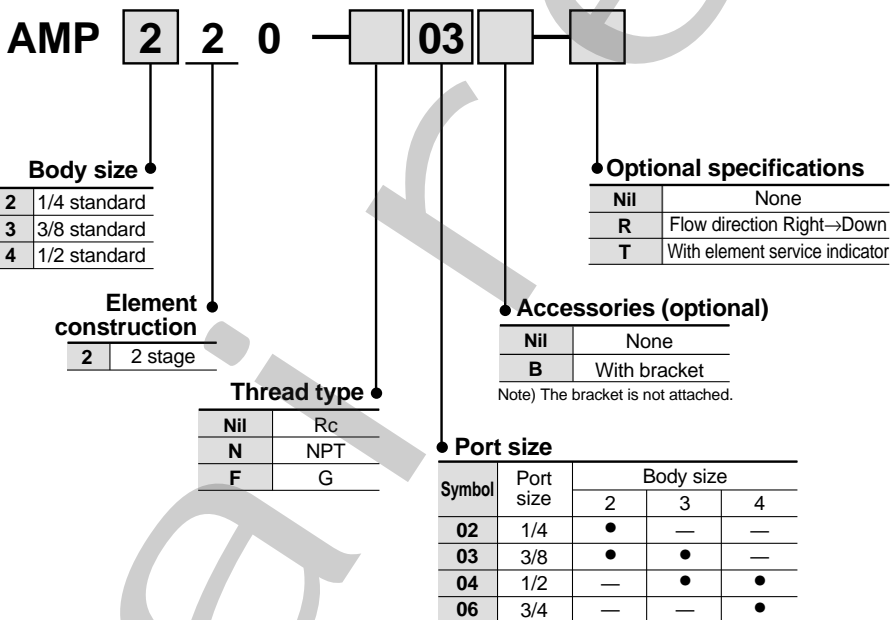
Model	Thread type	Port size				Optional
		1/4	3/8	1/2	3/4	
AMP220	Rc	•	•			• Flow direction Right → Down • With element service indicator
AMP320	NPT		•	•		
AMP420	G			•	•	

Silencing effect: 40dB (A) or more

Double packaging
Shipped in double packaging using antistatic bags.



How to Order



Models

Model	AMP220	AMP320	AMP420
Max. flow capacity l/min (ANR)(SCFM)	200 (7)	500 (17.5)	1000 (35)
Port size (nominal size B)	1/4, 3/8	3/8, 1/2	1/2, 3/4
Weight kg (lb)	0.43 (0.95)	0.68 (1.50)	1.15 (2.54)

Specifications

Fluid	Compressed air
Element upstream pressure	0.1MPa or less (14.5 psi or less)
Ambient and fluid temperature	5 to 50°C (41° to 122°F)
Filtration degree	0.01 μm (95% filtered particle size)
Downstream cleanliness	Particle density for particles 0.3 μm or larger ≤ 3.5 particles/ l (ANR) (100 particles/ ft^3 or less)
Element life	One year from first use (or when upstream pressure reaches 0.1MPa (14.5 psi), even if less than one year from first use)
Element life indication (saturated with oil)	Element color indication (replace if red dots appear on the element surface, even if less than one year from first use)
Element construction	Two stage element
Silencing effect	40dB (A) or more

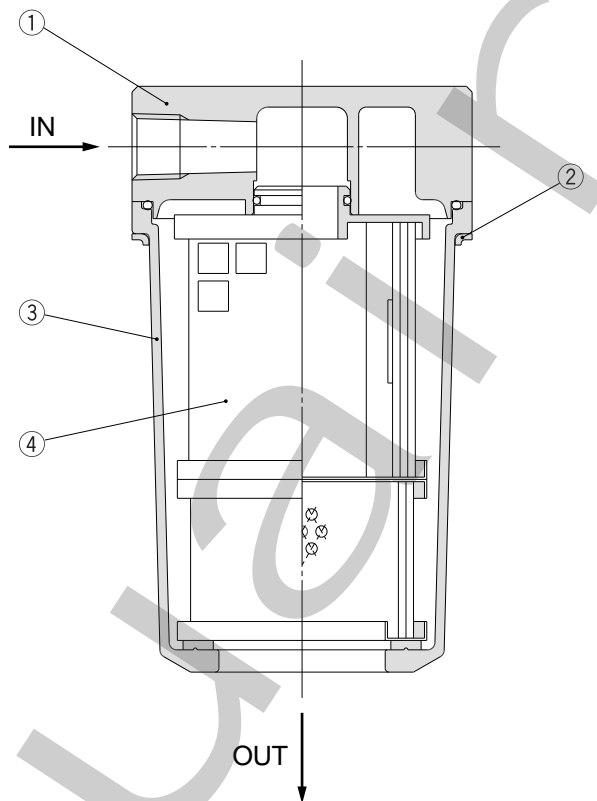
Accessories (Optional)

Applicable model	AMP220	AMP320	AMP420
Bracket assembly (with cap bolt with spring washers)	BM66	BM67	BM68

Series AMP

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Construction



Parts list

No.	Description	Material	Note
1	Body	Aluminum alloy	Chromated, Baking finish
2	Ring	Carbon steel	Electroless nickel plated
3	Case	Resin	

Replacement parts

No.	Description	Part number			Note
		AMP220	AMP320	AMP420	
4	Element assembly	AMP-EL220	AMP-EL320	AMP-EL420	With O-ring

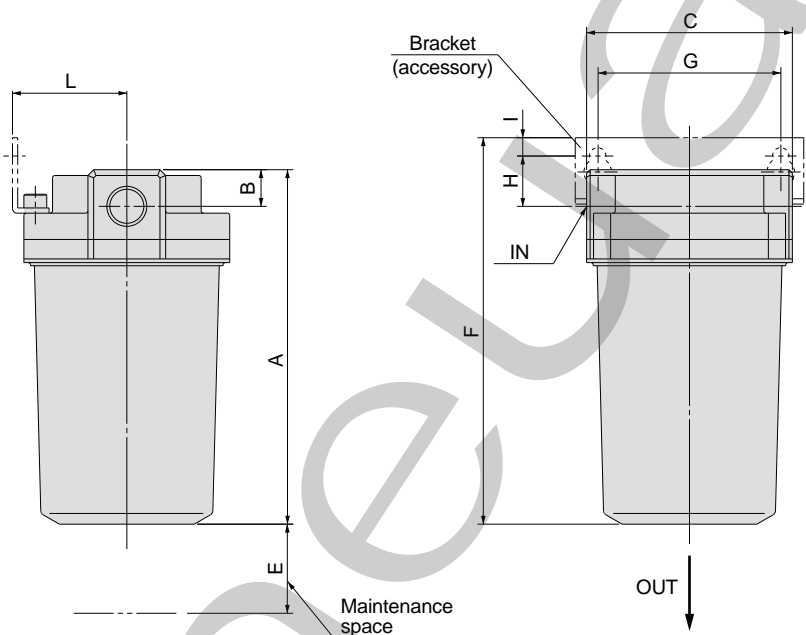
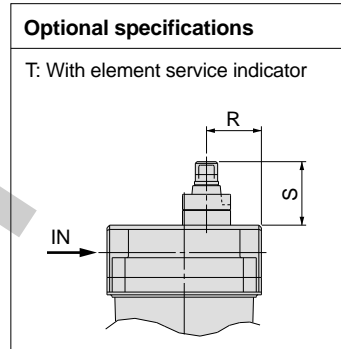
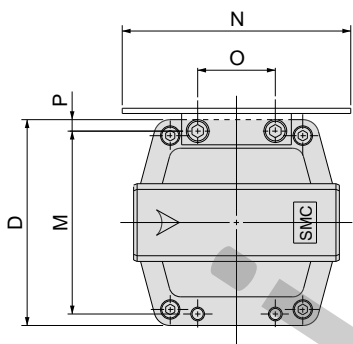
Note) The first and second elements are integrated, and cannot be replaced separately.

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Series AMP

Dimensions (mm)

1in = 25.4mm



Bracket mounting hole

Model	Applicable screw
AMP220	M5 hexagon socket head cap screw
AMP320	M6 hexagon socket head cap screw
AMP420	M8 hexagon socket head cap screw

(mm)

Model	Port size (nominal size B)	A	B	C	D	E	Bracket related dimensions											Element service indicator related dimensions		
							F	G	H	I	J	K	L	M	N	O	P	Q	R	S
AMP220	1/4, 3/8	108	13	76	76	80	123	66	20	8	6	10	40	66	84	28	5	2	26	37
AMP320	3/8, 1/2	155	16	90	90	120	169	80	22	8	7	12	50	80	100	34	5	2.3	32	37
AMP420	1/2, 3/4	221	19	106	106	180	237	90	25	10	10	15	55	88	110	50	9	3.2	37	37

1in = 25.4mm