

# Super Mist Separator Series **AME**

Can separate and adsorb aerosol state fine oil particles in compressed air and change the oil lubricating compressed air to oilless air or equivalent.

Use this product for filtration of compressed air requiring higher clean air for painting lines, compressed air for clean rooms and/or equipment where oils must be avoided.

Indicates the filter element life by a color change. Accordingly, the replacement time can be judged visually. (A red color spot indicates the replacement time.)

## Caution

By all means the “AM” series should be used as a pre-filter.

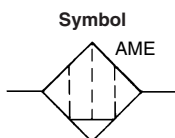
Modular connection is possible with AME150C to 550C.  
(For details, refer to page 61.)



AME150C to 350C AME450C/550C



AME650/850



**Made to Order**  
(For details, refer to page 67.)

## Model

Model	AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850
Rated flow (Note) ( $\ell/\text{min}$ (ANR))	200	500	1000	2000	3700	6000	12000
Port size	1/8, 1/4	1/4, 3/8	3/8, 1/2	1/2, 3/4	3/4, 1	1, 1 1/2	1 1/2, 2
Mass (kg)	0.3	0.48	0.8	1.3	2.0	4.2	10.5



Note) Max. flow at 0.7 MPa.

Max. flow varies depending on the operating pressure.

Refer to “Flow Characteristics” (page 47) and “Maximum Air Flow” (page 47).

## Specifications

Fluid	Compressed air
Max. operating pressure	1.0 MPa
Min. operating pressure	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5 to 60°C
Nominal filtration rating	0.01 $\mu\text{m}$ (Filtration efficiency: 99.9%)
Cleanliness at outlet	Less than 100 particles of 0.3 $\mu\text{m}$ or larger per cubic foot [Less than 35 particles per 10 liters (ANR)]
Oil mist density at outlet	Max. 0.01 $\text{mg}/\text{m}^3$ (ANR) ( $\approx 0.008$ ppm)
Element life	Element color indicator (Replace the element when a red color spot occurred on the surface.)

## Accessory

Applicable model	AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850
Bracket assembly (with 2 mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57

## Caution

Be sure to read this before handling.

Refer to back pages 1 and 2 for Safety Instructions, “Precautions for Handling Pneumatic Devices” (M-03-E3A) for Common Precautions, and back pages 3 through to 7 for Specific Product Precautions.

## How to Order



### AME150C to 550C

AME 550C - [ ] 10 [ ] - [ ]

#### Body size

150C
250C
350C
450C
550C

#### Thread type

Symbol	Type
Nil	Rc
F	G*1
N	NPT

\*1 Conforms to ISO1179-1.

#### Option

Symbol	Description
Nil	—
F	Rubber material: Fluororubber
H	For medium air pressure (1.6 MPa)
R	IN-OUT reversal direction
V	Degreasing wash, *3 white vaseline

\*3 Only body/housing is degreasing washed.

#### Accessory

Symbol	Description
Nil	—
B	Bracket *2

\*2 Bracket is included, (but not assembled).

#### Port size

Symbol	Size	Applicable body size				
		150C	250C	350C	450C	550C
01	1/8	●				
02	1/4	●	●			
03	3/8		●	●		
04	1/2			●	●	
06	3/4				●	●
10	1					●

## Options

### Symbol F: Rubber material: Fluororubber

Fluororubber is used for the parts such as O-ring and gasket.

### Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

### Symbol R: IN-OUT reversal direction

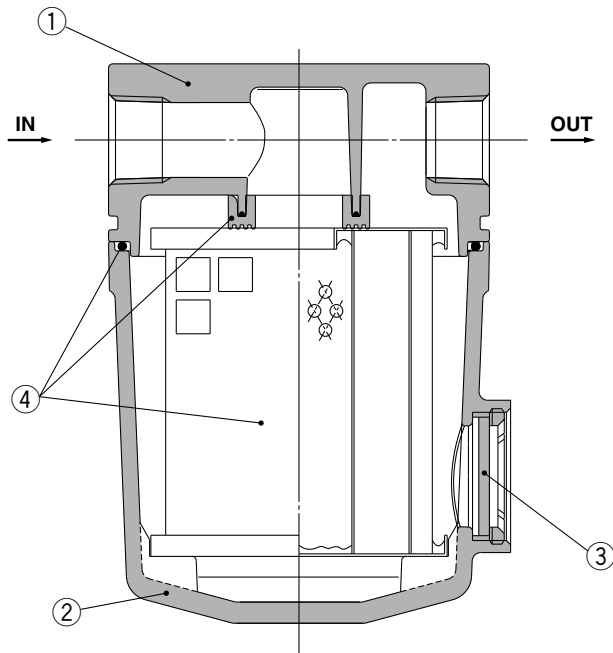
Air flow in the separator is changed to right to left.  
(Air flow direction of the standard: Left to right.)

### Symbol V: Degreasing wash, white vaseline

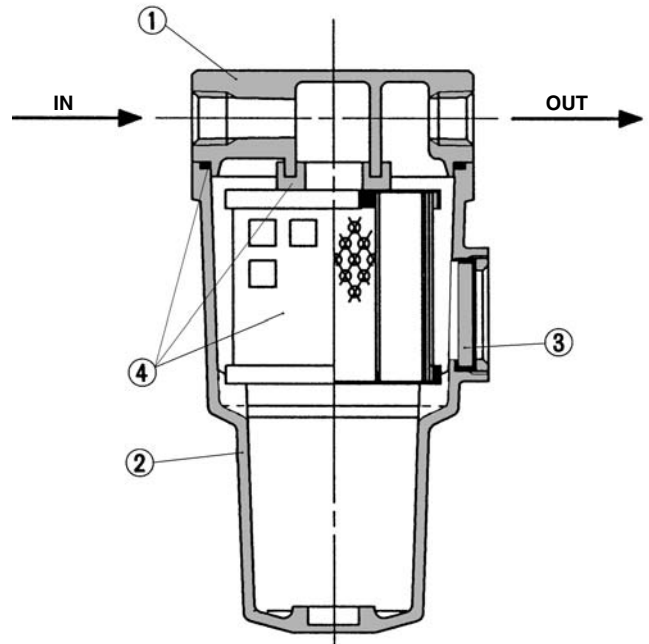
Body/housing is degreasing washed. The lubrication grease for O-ring and gasket is changed to white vaseline.

## Construction

### AME150C to 550C



### AME650/850



## Component Parts

No.	Description	Material	Note
1	<b>Body</b>	Aluminum die-casted	Chrome treated
2	<b>Housing</b>	Aluminum die-casted*	Epoxy coating on inner surface
3	<b>Sight glass</b>	Tempered glass	—

\* The AME850 is aluminum casted.



Note) Refer to "How to Order Bowl Assembly" on page 63.



Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 49 through to 51 for details.

## Replacement Parts

No.	Description	Material	Applicable model	Model						
				AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850
4	<b>Element assembly</b>	Glass fiber, others	Except option F	AME-EL150	AME-EL250	AME-EL350	AME-EL450	AME-EL550	AME-EL650	AME-EL850
			For option F	AME-EL150-F	AME-EL250-F	AME-EL350-F	AME-EL450-F	AME-EL550-F	—	—

\* Element assembly: With gasket (1 pc.) and O-ring (1 pc.)

\* Element assemblies for Made to Order (X12, X20) are same as those for standard (see the above table).