

# Mist Separator

## Series AM

Can remove oil mist in compressed air and remove particles such as rust or carbon of more than 0.3  $\mu\text{m}$ .

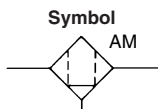
Modular connection is possible with AM150C to 550C.  
(For details, refer to page 61.)



AM150C to 550C



AM650/850



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

### Model

Model	AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
Rated flow (Note) ( $\ell/\text{min}$ (ANR))	300	750	1500	2200	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)	0.38	0.55	0.9	1.4	2.1	4.2	10.5



Note) Max. flow at 0.7 MPa.

Max. flow varies depending on the operating pressure.

Refer to "Flow Characteristics" (page 21) and "Maximum Air Flow" (page 22).



Note) Refer to "Made to Order" (page 67) for high flow type of AM850 or more.

### 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	0.3 $\mu\text{m}$ (Filtration efficiency: 99.9%)
Oil mist density at outlet	Max. 1.0 $\text{mg}/\text{m}^3$ (ANR) ( $\approx 0.8$ ppm)*
Element life	2 years or when pressure drop reached 0.1 MPa

\* With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)

\* Oil mist density at 30  $\text{mg}/\text{m}^3$  (ANR) blown out by compressor.

### Accessory

Applicable model	AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
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



### AM650/850

AM **650** - **10** - - - -

#### Body size

Symbol	Applicable compressor output (guide)
<b>650</b>	37 kW
<b>850</b>	75 kW

#### Thread type

Symbol	Type
<b>Nil</b>	Rc
<b>F</b>	G
<b>N</b>	NPT

#### Port size

Symbol	Size	Applicable body size	
		650	850
<b>10</b>	1	●	—
<b>14</b>	1 1/2	●	●
<b>20</b>	2	—	●

#### Accessory

Symbol	Description
<b>Nil</b>	—
<b>B</b>	Bracket *1

\*1 Bracket is included, (but not assembled).

#### Made to Order

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

Symbol	Description	Page for details
<b>Nil</b>	—	—
<b>X6</b>	With differential pressure gauge (GD40-2-01)	P.68
<b>X37</b>	With differential pressure switch (With indicator, 125 VAC, 30 VDC)	P.68
<b>X15</b>	With IN-OUT flange	P.69
<b>X17</b>	With differential pressure gauge (GD40-2-01) and IN-OUT flange	P.69
<b>X26</b>	N.C., N.O. auto drain, drain piping type	P.70
<b>X12</b>	White vaseline specifications	P.70

#### Option \*2

Symbol	Description
<b>Nil</b>	—
<b>J</b>	Drain guide 1/4 female threaded *4
<b>R</b>	IN-OUT reversal direction
<b>T</b>	With element service indicator

\*4 Drain piping and piping for a stop valve such as ball valve are required.

#### Auto drain \*2

Symbol	Description
<b>Nil</b>	Drain cock (Without auto drain) *3
<b>D</b>	N.O. auto drain

\*2 Refer to "Auto Drain Specifications/Option Combinations".

\*3 Body size 850 is equipped with a ball valve (Rc3/8 female threaded). Mount a piping adapter IDF-AP609 (page 62) to the ball valve if NPT3/8 female threaded is required.



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

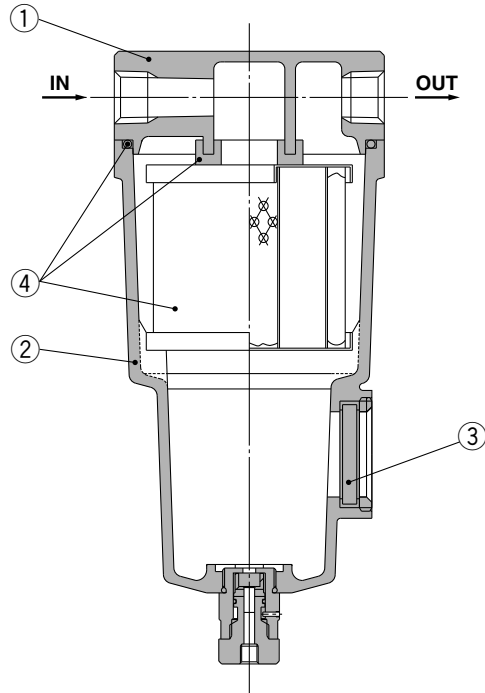
### Auto Drain Specifications/Option Combinations

○ : Available    ■ : Not available

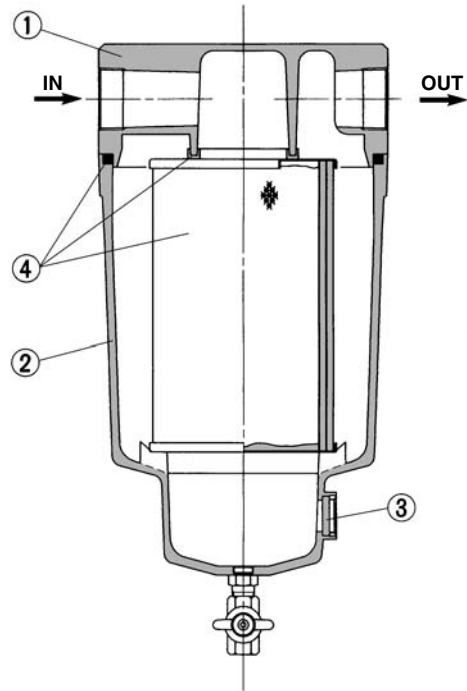
Auto drain specifications/Option			Auto drain specifications	Option				Applicable model	
			<b>D</b>	<b>J</b>	<b>R</b>	<b>T</b>		<b>AM650</b>	<b>AM850</b>
Auto drain specifications	N.O. auto drain	<b>D</b>	■	■	○	○	○	○	○
	Drain guide 1/4	<b>J</b>	■	■	○	○	○	○	○
Option	IN-OUT reversal direction	<b>R</b>	○	○	■	○	○	○	○
	With element service indicator	<b>T</b>	○	○	○	■	○	○	○

Construction

AM150C to 550C, AM650



AM850



Component Parts

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

\* The AM850 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 23 through to 25 for details.

Replacement Parts

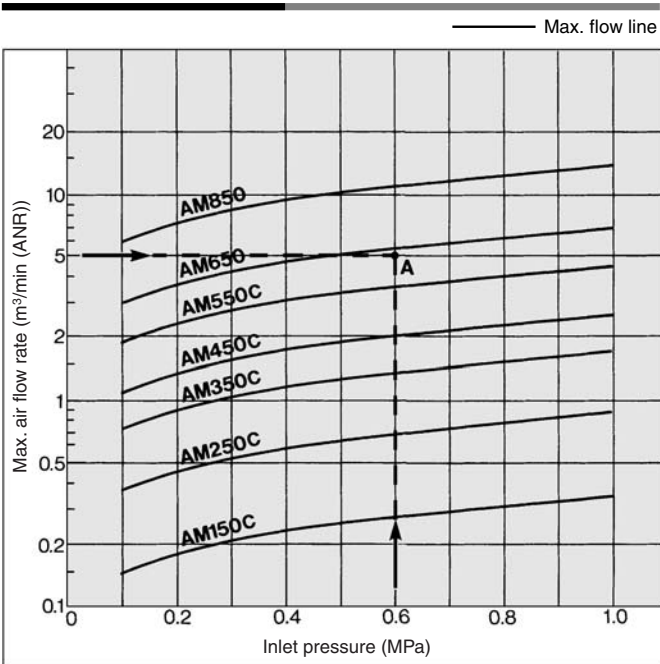
No.	Description	Material	Applicable model	Model						
				AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
4	Element assembly	Glass fiber, others	Except option F	AM-EL150	AM-EL250	AM-EL350	AM-EL450	AM-EL550	AM-EL650	AM-EL850
			For option F	AM-EL150-F	AM-EL250-F	AM-EL350-F	AM-EL450-F	AM-EL550-F	—	—

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

\* Refer to back page 6 for replacement of auto drain.

\* Element assemblies for Made to Order (X6, X12, X15, X17, X20, X26, X37) are same as those for standard (see the above table).

Maximum Air Flow



Model Selection

Select a model in accordance with the following procedure taking the inlet pressure and the max. air flow rate into consideration.

(Example) Inlet pressure: 0.6 MPa

Max. air flow rate: 5 m³/min (ANR)

1. Obtain the intersecting point A of inlet pressure and max. air flow rate in the graph.
2. The AM650 is obtained when the max. flow line is above the intersecting point A in the graph.



Note) Make sure to select a model that has the max. flow line above the obtained intersecting point. With a model that has the max. flow line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.