

# Mist Separator

## Series AM

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

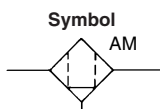
Modular connection is possible with AM150C to 550C.  
(For details, refer to page 61.)



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

### AM150C to 550C



AM 550C - 10 - - -

#### Body size

Symbol	Applicable compressor output (guide)
150C	2.2 kW
250C	3.7 kW
350C	7.5 kW
450C	11 kW
550C	22 kW

#### Thread type

Symbol	Type
Nil	Rc
F	G*1
N	NPT

\*1 Conforms to ISO1179-1.

#### 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					●

#### Accessory

Symbol	Description
Nil	—
B	Bracket *2

\*2 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
Nil	—	—
X6	With differential pressure gauge (GD40-2-01)	P.68
X15	With IN-OUT flange	P.69
X17	With differential pressure gauge (GD40-2-01) and IN-OUT flange	P.69
X26	N.C., N.O. auto drain, drain piping type	P.70

#### Option \*3

Symbol	Description
Nil	—
F	Rubber material: Fluororubber
H	For medium air pressure (1.6 MPa)
J	Drain guide 1/4 female threaded *4
R	IN-OUT reversal direction
S	With differential pressure switch (125 VAC, 30 VDC) *5, (Note)
U	With differential pressure switch (30 VDC) *5, (Note)
T	Element service indicator
V	Degreasing wash, *6 white vaseline

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

\*5 Differential pressure gauge is included, (but not assembled).

\*6 Only body/housing is degreasing washed.

(Note) Order "U" if conformity to the EU directive is required.

### Auto Drain Specifications/Option Combinations

○ : Available □ : Not available

○, △ : Plural options cannot be selected.

(i.e. Combinations such as C-FV, D-FHV, J-ST are not possible.)

Symbol	F	H	R	S	U	T	V
Auto drain specifications Nil	○	○	○	○	○	○	○
C	△	△	○	○	○	○	△
D	△	△	○	○	○	○	△
J	○	○	○	○	○	○	○

#### Auto drain \*3

Symbol	Description
Nil	Drain cock (Without auto drain)
C	N.C. auto drain
D	N.O. auto drain

\*3 Refer to "Auto Drain Specifications/Option Combinations".

## Options

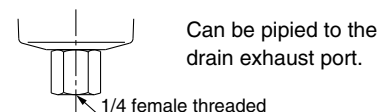
#### Symbol F: Rubber material: Fluororubber

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.

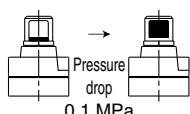
#### Symbol J: Drain guide 1/4 female threaded



#### Symbol R: IN-OUT reversal direction

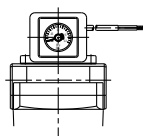
Air flow in the separator is changed to right to left.  
(Air flow direction of the standard: Left to right.)

#### Symbol T: With element service indicator



Saturation of the separator can be observed visually.  
(Element life check)

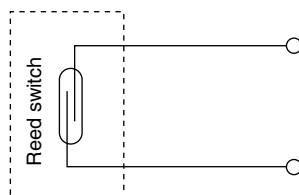
#### Symbol S: With differential pressure switch (with indicator)



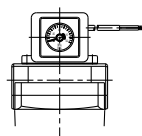
Saturation of the separator can be observed visually or by an electrical signal.  
(Element life check)

\* The rated contact voltage is different from "U".

Max. contact capacity: 10 VA AC, 10 W DC  
Rated contact voltage (max. operating current): 125 V AC (0.08 A), 30 V DC (0.33 A)



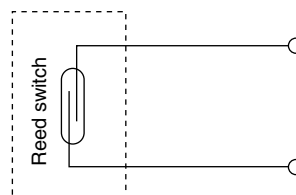
#### Symbol U: With differential pressure switch (with indicator)



Saturation of the separator can be observed visually or by an electrical signal.  
(Element life check)

\* The rated contact voltage is different from "S".

Max. contact capacity: 10 W DC  
Rated contact voltage (max. operating current): 30 V DC (0.33 A)



#### Symbol V: Degreasing wash, white vaseline

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

## 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>	○	○	○	■	○	○	○