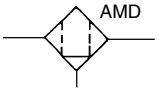
Micro Mist Separator
Series AMD

Can separate and remove aerosol state oil mist in compressed air and remove particles such as carbon or dust of more than 0.01 μm.
Use this product as a pre-filter for compressed air for precision instruments or clean room requiring higher clean air.

Modular connection is possible with AMD150C to 550C.
(For details, refer to page 61.)

AMD150C to 550C **AMD650/850**

Symbol



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

Model

Model	AMD150C	AMD250C	AMD350C	AMD450C	AMD550C	AMD650	AMD850
Rated flow (ℓ/min (ANR)) Note)	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)	0.38	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 29) and "Maximum Air Flow" (page 28).

Model/Free Standing Type

Model	AMD800	AMD900	AMD1000
Rated flow (ℓ/min (ANR))	8000	24000	40000
Port size	50(2B)JIS 10K FF flange	50(2B), 80(3B), 100(4B)JIS 10K FF flange	100(4B), 150(6B)JIS 10K FF flange
Mass (kg)	100	220	430

Model/Piping Support Type

Model	AMD801	AMD901
Rated flow (ℓ/min (ANR))	8000	24000
Port size	50(2B)JIS 10K FF flange	50(2B), 80(3B), 100(4B)JIS 10K FF flange
Mass (kg)	50	140

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 μm (Filtration efficiency: 99.9%)
Oil mist density at outlet	Max. 0.1 mg/m³ (ANR)* (Before saturated with oil, less than 0.01 mg/m³ (ANR) ≈0.008 ppm)
Element life	2 years (1 year for flange type) 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 mg/m³ (ANR) blown out by compressor.

Accessory

Applicable model	AMD150C	AMD250C	AMD350C	AMD450C	AMD550C	AMD650	AMD850
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

AMD650/850

AMD 650 – □ 10 □ □ – □ – □

Body size

650
850

Thread type

Symbol	Type
Nil	Rc
F	G
N	NPT

Port size

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

Accessory

Symbol	Description
Nil	—
B	Bracket *1

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

Auto drain *2

Symbol	Description
Nil	Drain cock (Without auto drain) *3
D	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.

Option *2

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

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

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
X37	With differential pressure switch (With indicator, 125 VAC, 30 VDC)	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
X12	White vaseline specifications	P.70

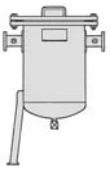
Note) Refer to "How to Order Bowl Assembly" on page 63.

Auto Drain Specifications/ Option Combinations

◎: Available ■: Not available

Auto drain specifications/Option			Auto drain specifications	Option			Applicable model	
			D	J	R	T	AMD650	AMD850
Auto drain specifications	N.O. auto drain	D	■	■	◎	◎	◎	◎
Option	Drain guide 1/4	J	■	■	◎	◎	◎	■
	IN-OUT reversal direction	R	◎	◎	■	◎	◎	◎
	With element service indicator	T	◎	◎	◎	■	◎	◎

Free standing type AMD800/810 to 10□0



AMD 8 00 – 20

Body size

8
9
10

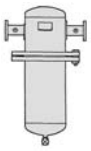
Type

Symbol	Description
00	With manual drain cock
10	With auto drain

Port size

Symbol	Size	Applicable body size		
		AMD800, 810	AMD9□0	AMD10□0
20	50(2B)JIS 10K FF flange	●	●	—
30	80(3B)JIS 10K FF flange	—	●	—
40	100(4B)JIS 10K FF flange	—	●	●
60	150(6B)JIS 10K FF flange	—	—	●

Piping support type AMD801/811/9□1



AMD 8 01 – 20

Body size

8
9

Type

Symbol	Description
01	With manual drain cock
11	With auto drain

Port size

Symbol	Size	Applicable body size	
		AMD8□1	AMD9□1
20	50(2B)JIS 10K FF flange	●	—
30	80(3B)JIS 10K FF flange	—	●
40	100(4B)JIS 10K FF flange	—	●

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 AMD650 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.

Maximum Air Flow