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 μ m.

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





Model

Model	AMD150C	AMD250C	AMD350C	AMD450C	AMD550C	AMD650	AMD850
Note) Rated flow (#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 ½	1 1/2, 2
Mass (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

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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

	3 71				
Model	AMD800	AMD900	AMD1000		
Rated flow (d/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 (d/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

opeemeations					
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)*				
Oil lilist delisity at outlet	(Before saturated with oil, less than 0.01 mg/m³ (ANR) ≈0.008 ppm)				
Element life	2 years (1 year for flange type)				
Element me	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



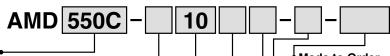
Be sure to read this before handling.

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



How to Order

AMD150C to 550C





Body size	•
150C	
250C	
350C	
450C	
550C	

Thread type							
Symbol	Type						
Nil	Rc						
F	G*1						
N NPT							
*1 Conforms to							

ISO1179-1. Port size •

Cura la a l	Size	Applicable body size							
Symbol		150C	250C	350C	450C	550C			
01	1/8								
02	1/4	•	•						
03	3/8								
04	1/2								
06	3/4					•			
10	1								

Accessory

Description
_
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	_	_
Х6	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
Н	For medium air pressure (1.6 MPa)
J	Drain guide 1/4 female thread *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)
Т	With 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	Н	R	S	U	Т	٧
Auto drain specifications Nil	0	0	0	0	0	0	0
С	Δ		0	0	0	0	Δ
D	Δ	Δ	0	0	0	0	Δ
J	0	0	0				0

Auto drain *3

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

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

Options

Symbol F: Rubber material: Fluororubber

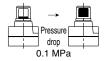
Fluororubber is used for the parts such as O-ring and gasket.

Symbol 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 V: Degreasing wash, white vaseline

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

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

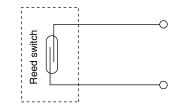
Symbol S: With differential pressure switch (with indicator)



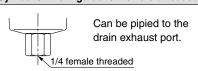
Saturation of the separator can be observed visually or by an electrical signal. (Element life check)

* The rated contact voltage is different

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 J: Drain guide 1/4 female threaded



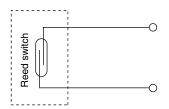
Symbol U: With differential pressure switch (with indicator)



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

The rated contact voltage is different

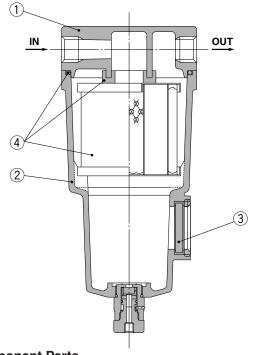
Max. contact capacity: 10 W DC Rated contact voltage (max. operating current): 30 V DC (0.33 A)



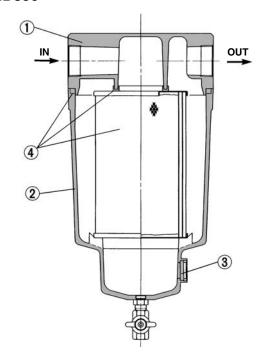


Construction

AMD150C to 550C, AMD650



AMD850





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 AMD850 is aluminum casted.





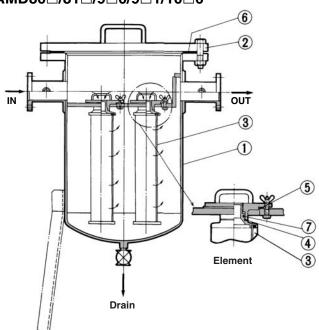
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 31 through to 34

Replacement Parts

No	Description	Material	Applicable	Model						
NO.			model	AMD150C	AMD250C	AMD350C	AMD450C	AMD550C	AMD650	AMD850
4	Element	Glass fiber,	Except option F	AMD-EL150	AMD-EL250	AMD-EL350	AMD-EL450	AMD-EL550	AMD-EL650	AMD-EL850
	assembly	others	For option F	AMD-EL150-F	AMD-EL250-F	AMD-EL350-F	AMD-EL450-F	AMD-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).

AMD80\(\to\)/81\(\to\)/9\(\to\)/9\(\to\)1/10\(\to\)0



Component Parts/Material

No.	Description	Model			
	Description	AMD800/810/9 0/10 0	AMD801/811/9 1	Note	
1	Filter case	SGP-E, SS400	SGP-E, SS400		
2	Cover	SS400	SGP-E, SS400		

Replacement Parts

No.	Description	Material	Model					
INO.			AMD800/810	AMD801/811	AMD9□0	AMD9□1	AMD10□0	
3	Element	1	63174	63174	63174 3 pcs.	63174 3 pcs.	63174 5 pcs.	
4	Seal	NBR	63148	63148	63148 3 pcs.	63148 3 pcs.	63148 5 pcs.	
5	Seal	NBR	O.D112 x I.D90 x T3	1	O.D112 x I.D90 x T3 3 pcs.	_	O.D112 x I.D90 x T3 5 pcs.	
6	Gasket	V#6500	AL-61S	AL-60S	AL-63S	AL-62S	AL-31S	
7	O-ring	NBR	JIS B2401G35 1 pc.	JIS B2401G35 1 pc.	JIS B2401G35 3 pcs.	JIS B2401G35 3 pcs.	JIS B2401G35 5 pcs.	

