

Compressed Air Cleaning Filter Series

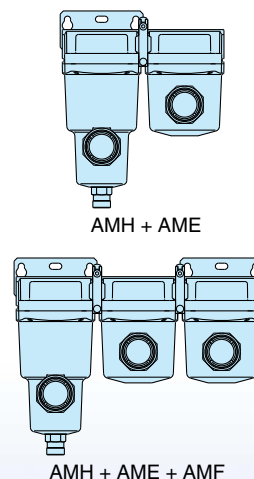
For Water, Solid/Oil Separation and Deodorization

Modular connection, Space-saving design, Labor-saving in piping! (AMG□C, AFF□C, AM□C, AMD□C, AMH□C, AME□C, AMF□C)

Uses the same spacer as the F.R.L. combination AC series.

Possible to make a modular connection with products such as AR series regulator.

Modular connection example



* The C type is only suitable for modular connection.

Options added (AMG□C, AFF□C, AM□C, AMD□C, AMH□C, AME□C, AMF□C)

Addition: 5 types

1.6 MPa specifications

Fluororubber specifications

With differential pressure switch (125 VAC, 30 VDC)

With differential pressure switch (30 VDC)

Degreasing wash, white vaseline specifications

Differential pressure switch



Compact, Lightweight (AME□C, AMF□C)

Height and mass reduced by up to **40%**



Water Separation

Water Separator/**AMG**

Solid/Oil Separation

Main Line Filter/**AFF**

Mist Separator/**AM**

Micro Mist Separator/**AMD**

Micro Mist Separator with Pre-filter/**AMH**

Super Mist Separator/**AME**

Deodorization

Odor Removal Filter/**AMF**

Series AM□/AFF



CAT.ES30-11A

Dust filtration, Oil mist separation

Micro Mist Separator with Pre-filter

Built-in 0.3 μm pre-filter
The AM + AMD element have been integrated to achieve a space-saving design.
Nominal filtration rating: 0.01 μm
[Filtration efficiency: 99.9%]
Oil mist density at outlet:
Max. 0.1 mg/m³ (ANR)
[≈0.08 ppm]



AMH150C to 550C AMH650/850

Dust filtration, Oil mist adsorption

Super Mist Separator

Color change indicates when element is saturated.
Nominal filtration rating: 0.01 μm
[Filtration efficiency: 99.9%]
Oil mist density at outlet:
Max. 0.01 mg/m³ (ANR)
[≈0.008 ppm]
Cleanliness at outlet:
Not more than 35
particles of size
0.3 μm or larger/10 ℓ
(100 particles or less/ft³)



AME150C to 550C AME650/850

Deodorization

Odor Removal Filter

Nominal filtration rating: 0.01 μm
[Filtration efficiency: 99.9%]
Oil mist density at outlet:
Max. 0.004 mg/m³ (ANR)
[≈0.0032 ppm]



AMF150C to 550C

AMF650 to 1000

Model		Flow capacity ℓ/min (ANR) Max. flow capacity at 0.7 MPa inlet pressure	Port size	Note
AMH	150C	200	1/8, 1/4	Piping support type
	250C	500	1/4, 3/8	
	350C	1,000	3/8, 1/2	
	450C	2,000	1/2, 3/4	
	550C	3,700	3/4, 1	
	650	6,000	1, 1 1/2	
	850	12,000	1 1/2, 2	
AME	150C	200	1/8, 1/4	Piping support type
	250C	500	1/4, 3/8	
	350C	1,000	3/8, 1/2	
	450C	2,000	1/2, 3/4	
	550C	3,700	3/4, 1	
	650	6,000	1, 1 1/2	
	850	12,000	1 1/2, 2	
AMF	150C	200	1/8, 1/4	Piping support type
	250C	500	1/4, 3/8	
	350C	1,000	3/8, 1/2	
	450C	2,000	1/2, 3/4	
	550C	3,700	3/4, 1	
	650	6,000	1, 1 1/2	
	850	12,000	1 1/2, 2	
	801	8,000	50(2B) flange	
	901	24,000	50(2B), 80(3B) 100(4B) flange	
	800	8,000	50(2B) flange	
	900	24,000	50(2B), 80(3B) 100(4B) flange	Free standing type
	1000	40,000	100(4B), 150(6B) flange	

Water Separator

Series AMG

Can remove water droplets in compressed air. Use this product in cases where “water must be avoided, but not so dry as when an air dryer is used”.

Through the adoption of an element that is exclusively used for removing water droplets and the ample housing interior space, a 99%* water removal rate** has been achieved.

⚠ Caution

Water separator can remove water droplets, but it cannot remove moisture.

* Condition of inlet air
 Pressure: 0.7 MPa
 Temperature: 25°C
 Relative humidity: 100%
 Liquid water content (Water droplet content): 15 g/m³ (ANR)
 Compressed air flow: Rated flow of each model

** Water removal rate (%) =

$$\frac{\text{Removed water (Water droplet) (g)}}{\text{Inflow water (Water droplet) (g)}} \times 100$$

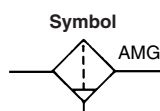
Modular connection is possible with AMG150C to 550C.
 (For details, refer to page 61.)



AMG150C to 550C



AMG650/850



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

Model

Model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850
Rated flow (l/min (ANR)) <small>Note)</small>	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 5) and “Maximum Air flow” (page 6).

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
Water removal rate	99%
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)

Accessory

Applicable model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850
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



AMG150C to 550C

AMG **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.

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	—	—
X15	With 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
V	Degreasing wash, *5 white vaseline

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

*5 Only body/housing is degreasing washed.

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".

Auto Drain Specifications/Option Combinations

○ : Available □ : Not available

△ : Plural options cannot be selected.

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

Symbol	F	H	R	V
Auto drain specifications				
Nil	○	○	○	○
C	△	□	○	△
D	△	△	○	△
J	○	○	○	○

Options

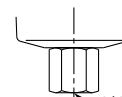
Symbol F: Rubber material: Fluororubber

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



Can be piped to the drain exhaust port.

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 V: Degreasing wash, white vaseline

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