Compressed Air Cleaning Filter Series

AM□/AFF Series

For Water Droplet, Solid/Oil Separation and Deodorization

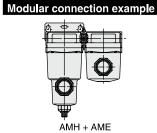
Modular connection, Space-saving design, Labor-saving in piping! (AMGIC, AFFIC, AMCIC, AMGIC, AMFIC)

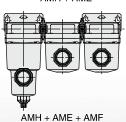
Uses the same spacer as the F.R.L. combination AC series.

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









* The C type is only suitable for modular connection.

Options added (AMGIC, AFFIC, AMIC, AMDIC)

Addition: 5 types

1.6 MPa specifications

FKM specifications

With differential pressure switch (125 VAC, 30 VDC)

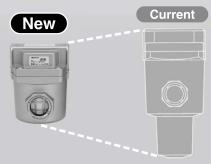
With differential pressure switch (30 VDC)

White vaseline specifications





Height and weight reduced by up to 40%





Water Droplet 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

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AFF

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AMD AMH

AME

AMF

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SFD LLB

AD□

AM□/AFF Series

Water droplet separation

Water Separator

Water droplet removal ratio: 99%





AMG150C to 550C

AMG650/850

Largedust particle filtration, Oil droplet separation

Main Line Filter

Nominal filtration rating: 3 μm [Filtration efficiency: 99%]





AFF2C to 22C AFF37B/75B

Dust-filtration, Oil mist separation

Mist Separator

Nominal filtration rating: 0.3 µm [Filtration efficiency: 99.9%] Oil mist density at outlet: Max 1.0 mg/m³ (ANR) [≈0.8 ppm]



AM150C to 550C AM650/850

Dust-filtration, Oil mist separation

Micro Mist Separator

Nominal filtration rating: 0.01 µm [Filtration efficiency: 99.9%] Oil mist density at outlet: Max. 0.1 mg/m³ (ANR)

[≈0.08 ppm]



AMD150C to 550C

AMD650, 850

Model 150C		Rated flow L/min (ANR)	Port size	Note		
	150C	300	1/8, 1/4			
	250C	750	1/4, 3/8			
	350C	1,500	3/8, 1/2	Piping		
AMG	450C	2,200	1/2, 3/4	support		
	550C	3,700	3/4, 1	type		
	650	6,000	1, 1 1/2			
	850	12,000	1 1/2, 2			
	2C	300	1/8, 1/4			
AFF	4C	750	1/4, 3/8			
	8C	1,500	3/8, 1/2	Piping		
	11C	2,200	1/2, 3/4	support		
	22C	3,700	3/4, 1	type		
	37B	6,000	1, 1 1/2			
	75B	12,000	1 1/2, 2			
	75A	12,400	50(2B) flange			
	125A	23,700	80(3B) flange	Free standing		
	150A	30,000	100(4B) flange	type		
	220A	45,000	100(4B) flaffge			
	150C	300	1/8, 1/4			
	250C	750	1/4, 3/8			
	350C	1,500	3/8, 1/2	Piping		
AM	450C	2,200	1/2, 3/4	support		
	550C	3,700	3/4, 1	type		
	650	6,000	1, 1 1/2			
	850	12,000	1 1 / ₂ , 2			
	150C	200	1/8, 1/4			
	250C	500	1/4, 3/8			
	350C	1,000	3/8, 1/2	Piping		
	450C	2,000	1/2, 3/4	support		
AMD	550C	3,700	3/4, 1	type		
	650	6,000	1, 1 1/2			
	850	12,000	1 1/2, 2			
	900	24,000	50(2B), 80(3B), 100(4B) flange	Free standing		
	1000	40,000	100(4B), 150(6B) flange	type		

Compressed Air Cleaning Filter Series AM 1/AFF Series

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 mistadsorption

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 100 particles of size 0.3 μm or larger/ft3



[35 particles or less/10 L (ANR)] 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]









AMF650, 850

Мо	del	Rated flow L/min (ANR)	Port size	Note			
	150C	200	1/8, 1/4				
	250C	500	1/4, 3/8	Pining			
АМН	350C	1,000	3/8, 1/2				
АМН	450C	2,000	1/2, 3/4	Piping support type			
	550C	3,700	3/4, 1	туре			
	650	6,000	1, 1 ½				
	850	12,000	1 1/2, 2				
	150C	200	1/8, 1/4				
	250C	500	1/4, 3/8				
	350C	1,000	3/8, 1/2	Pining			
AME	450C	2,000	1/2, 3/4	Piping support type			
	550C	3,700	3/4, 1	lype			
	650	6,000	1, 1 ½				
	850	12,000	1 1/2, 2				
	150C	200	1/8, 1/4				
	250C	500	1/4, 3/8				
	350C	1,000	3/8, 1/2	Dining			
AMF	450C	2,000	1/2, 3/4	Piping support type			
	550C	3,700	3/4, 1	,,,,,			
	650	6,000	1, 1 1/2				
	850	12,000	1 1/2, 2				



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Compressed Air Cleaning Filter Series

AM□/AFF Series

		Series	Water removal rate	Nominal filtration rating	Oil mist density at outlet	Smell	Page
		V	V				
mater propret Separation	Water Separator Eliminates water droplets in the compressed air.	AMG Series	99%	_		_	P.207
	Main Line Filter Eliminates impurities such as oil and foreign matter, etc. in compressed air.	AFF Series		3 µm (Filtration efficiency: 99%)	_		P.215
	Mist Separator Eliminates oil mist in compressed air or rust sized 0.3 µm or more, and foreign matter such as carbon.	AM Series		0.3 μm (Filtration efficiency: 99.9%)	1 mg/m³ (ANR) (≈0.8 ppm) (after oil saturation)		P.223
	Micro Mist Separator Eliminates foreign matter sized 0.01 μm or more, or oil particles in an aerosol state.	AMD Series		0.01 µm (Filtration efficiency: 99.9%)	0.1 mg/m³ (ANR)	_	P.231
	Micro Mist Separator with Pre-filter Incorporates pre-filter (equivalent to the AM series) into micro mist separator.	AMH Series		0.01 µm (Filtration efficiency: 99.9%)	(≈0.08 ppm) (after oil saturation)		P.241
	Super Mist Separator Captures foreign matter sized 0.01 µm or more and adsorbs oil particles in an aerosol state.	AME Series		0.01 μm (Filtration	0.01 mg/m³ (ANR) (≈0.008 ppm)	Reduces oil smell.	P.249
	Odor Removal Filter Eliminates odor from compressed air.	AMF Series		efficiency: 99.9%)	0.004 mg/m³ (ANR) (≈0.0032 ppm)	Deodorizes oil smell.	P.257
0	perating State and Proper Use of A	uto Drain					P.265
		dular Connec	tion, Piping <i>I</i>	Adapter)			P.266
0	ptional Accessories (Spacer for Mo						
	ptional Accessories (Spacer for Mo						P.268
В	owl Assembly Rubber r For medi With diffe	naterial: FKM um air pressu rential pressur c, 30 VDC)	ıre ● Drain (-	n ● White vaseli readed ● With elemen		P.268 Refer to "How to Order" or respecti models.
0	owl Assembly Rubber r For medi With diffe	um air pressu rential pressur c, 30 VDC)	re ● Drain (re switch (with	guide 1/4 female th			Refer to "How to Order" o
0	owl Assembly Pubber r For medi With diffe (125 VAC) icable only to the AFF37B, 75B, AM□650 a With diffe Manage t the clogg	um air pressu rential pressur c, 30 VDC)	re switch (with to Order. ure gauge (X6 tt period by mo	guide 1/4 female th n indicator)* 6) • Aut onitoring The		d connection type (X26) piping of the auto	Refer to "How to Order" o
B ₀	Ptions Rubber r For medi With diffe (125 VAC) icable only to the AFF37B, 75B, AM□650 a With diffe Manage t the clogg With diffe (with ind The diffet the eleme visually a With IN-C	um air pressu prential pressur c, 30 VDC) and 850 by Made to prential pressur- de element. prential pressur- prential pressur- prential pressur- prential pressur- prential pressur- ent replacemen- and with an elec- DUT flange (X1	re Switch (with to Order. ure gauge (Xe th period by mo ure switch e used as the g th period, can be strical signal.	guide 1/4 female the nindicator)* 6) 6) Children 6) C	to drain, drain piping threader readed connection for the ain exhaust port	d connection type (X26) a piping of the auto cons* (X12) circant. w rate with 0.3 µm (X13) h a nominal filtration	Refer to "How to Order" o
O Appli	Ptions Rubber r For medi With diffe (125 VAC) icable only to the AFF37B, 75B, AM□650 a With diff Manage t the clogg With diff (with ind The differ the eleme visually a With IN-C Flange pi With diffe With differ The repla element of	um air pressu prential pressur c, 30 VDC) and 850 by Made to prential pressur de elemental prential pressure prential pressure ent replacemental and with an elect	re switch (with to Order. ure gauge (X6 tt period by mo ure switch e used as the outperiod, can be etrical signal. 15) n gauge, IN-OUT due to cloggir d by the differe	guide 1/4 female the nindicator)* 6) Autoritoring The draw with Us guide for be checked Nano This ration of the ential approximation in the ential approximation in the protection of the ential approximation in the nindicator in	to drain, drain piping threader readed connection for the ain exhaust port inte vaseline specification white vaseline for lubian line filter for high flominal filtration rating of is filter is for high flows with	d connection type (X26) e piping of the auto cons* (X12) ricant. w rate with 6 0.3 μm (X13) h a nominal filtration eries mist separator. UT sides are provided n can be used for of low rates, which leads	Refer to "How to Order" respect models



Auto Drain Valve, Motor Operated Auto Drain, Heavy Duty Auto Drain, Differential Pressure Gauge

Water Separator

AMG Series



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 a dedicated element 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 (%) =

Removed water (Water droplet) (g)

Inflowed water (Water droplet) (g) x 100

Modular connection is possible with AMG150C to 550C.

(For details, refer to page 266.)



AMG150C to 550C

AMG650/850

Symbol (Drain cock specifications) (Auto drain specifications)



Model

Model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850
Note) Rated flow (L/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	11/2, 2
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

Note) Max. flow capacity at 0.7 MPa.

Max. flow capacity varies depending on the operating pressure. Refer to "Flow Rate Characteristics" (page 210) and "Maximum Flow Capacity Line" (page 211).

Specifications

Compressed air
1.0 MPa
0.05 MPa
1.5 MPa
5 to 60°C
99%
rears 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 Part No.

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 the products. Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions. HAA HAW

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AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

SF

SFD

LLB

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How to Order

AMG150C to 550C

10



Size 150 250 350 450

550

AMG 550 C-

Symbol Type Nil Rc F G N NPT

Port size

Symbol	Port	Applicable size				
	Port size	150	250	350	450	550
01	1/8	•				
02	1/4	•	•			
03	3/8		•	•		
04	1/2			•	•	
06	3/4				•	•
10	1					

Accessory

Symbol	Description
Nil	_
В	Bracket *1

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

Made to Order

Symbols are only added at the end for Made to Order. Refer to page 272 and later for the contents of Made to Order, How to Order, and the applicable models.

Option *3

- · Multiple options can be selected.
- · Refer to the table below for the available combinations.
- · Indicate symbols in alphabetical order.

Symbol	Description			
Nil	_			
F	Rubber material: FKM			
H For medium air pressure (1.6 MPa				
J	Drain guide 1/4 female threaded *5			
R	IN-OUT reversal direction			
V	White vaseline			

^{*5} Without a valve function

Auto drain *2 *3

Symbol	Description
Nil	Without auto drain (With drain cock *4)
С	N.C. (Normally closed) Drain port is closed when pressure is not applied.
D	N.O. (Normally open) Drain port is open when pressure is not applied.

- *2 Refer to page 265 for proper use of the auto drain. (Only one auto drain specification can be selected.)
- *3 Refer to the following table for the available combinations of the auto drain specifications and options.
- *4 When the option J is selected, the auto drain and drain cock are not available.

Auto Drain Specifications/Option Combinations

- ②: All types of auto drain specifications are available. (including drain guide, "J" specification)
- △: N.C. auto drain ("C" specification) is not available.
- ▼: Both N.C. and N.O. auto drain ("C", "D" specification) are not available.

	F	Н	R	V
Nil	0	\triangle	0	0
F		•	0	•
Н	•		\triangle	•
R	0	\triangle		0
V	•	•	0	

[:] Not available

Options

Symbol F: Rubber material: FKM

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

Symbol R: IN-OUT reversal direction

Flow direction: Right to left (Flow direction of the standard: Left to right)

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

Symbol V: White vaseline

The body/housing is degreased, and the grease used for the parts requiring lubrication has been changed to white vaseline.

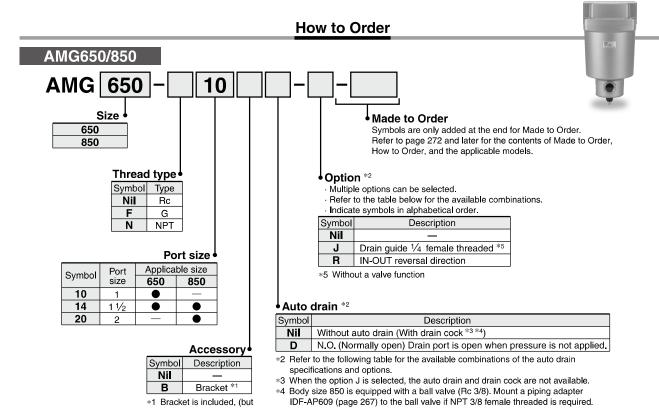
Symbol J: Drain guide 1/4 female threaded Pipe threaded connection

for the drain exhaust port



Water Separator AMG Series

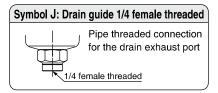
: Available



Auto Drain Specifications/Option Combinations

	•							
	Auto drain specifications/Option			Auto drain specifications	Op	tion	Applicable model	
				D	J	R	AMG650	AMG850
	Auto drain specifications	N.O. auto drain	D			0	0	0
	Option	Drain guide 1/4	J			0	0	
		IN-OUT reversal direction	R	0	0		0	0

Options



*1 Bracket is included, (but

not assembled).

Symbol R: IN-OUT reversal direction

Flow direction: Right to left (Flow direction of the standard: Left to right)

HAA HAW

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AMG

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AM AMD

: Not available

AMH

AME AMF

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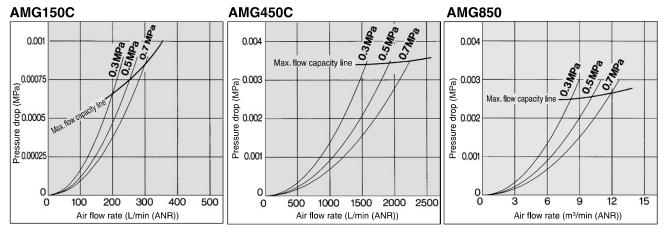
SFD

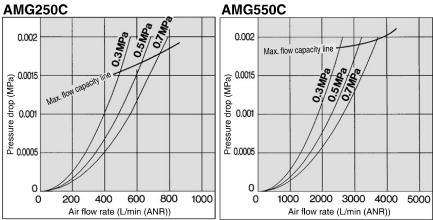
AD

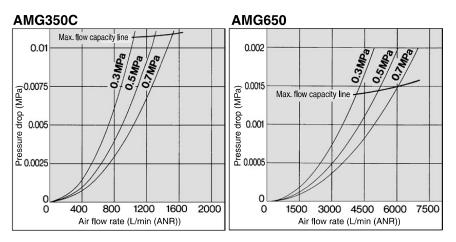
AMG Series

Flow Rate Characteristics (Representative values) / Select the model under the max. flow capacity line.

Note) Compressed air over max. flow capacity line in the table below may not meet the specifications of the product.

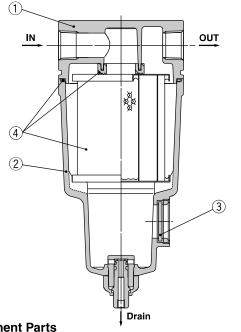






Construction

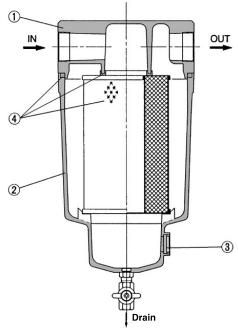
AMG150C to 550C, AMG650



Cor	nponen	t Parts

No.	Description	Material	Note		
1	Body	Aluminum alloy	Inner/outer		
2	Housing (Case)	Aluminum alloy	surface coating		
3	Sight glass	Tempered glass	_		

AMG850



Note) The figure shows the drain cock specification.

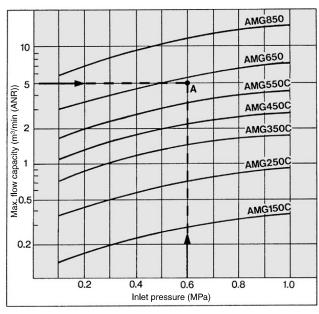
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 212 to 214 for details.

Replacement Parts

NI-	Danasistias		Applicable		Model								
INO.	Description	Material	model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850			
	Element	Resin,	Except option F	AMG-EL150	AMG-EL250	AMG-EL350	AMG-EL450	AMG-EL550	AMG-EL650	AMG-EL850			
4	assembly	others	For option F	AMG-EL150-F	AMG-EL250-F	AMG-EL350-F	AMG-EL450-F	AMG-EL550-F	_	_			

- Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- Refer to page 280 for replacement of auto drain.

Maximum Flow Capacity Line



Model Selection

Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

Max. flow capacity: 5 m³/min (ANR)

- Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
- The AMG650 is obtained when the max. flow capacity line is above the intersecting point A in the graph.

Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity 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.

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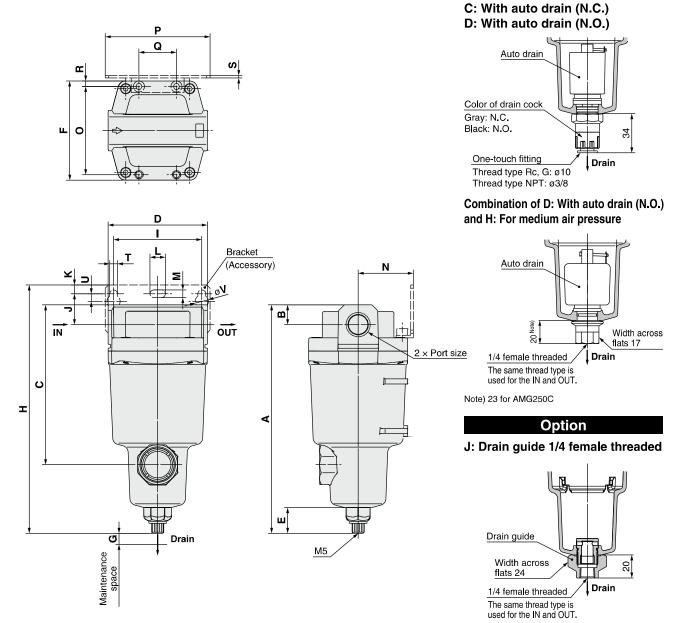
LLB

AD□

AMG Series

Dimensions

AMG150C to 550C



Auto drain

Note) The figure shows the drain cock specification.

																							(mm)
Model	Port size	_	В		_	D E F G Bracket related of				dime	ensions												
Wodei	FUIT SIZE	Α .	Р		ט		F	G	Н	ı	J	K	Т	U	٦	М	٧	Z	0	Р	Q	R	S
AMG150C	1/8, 1/4	161	10	99	63	23	63	10	176	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6
AMG250C	1/4, 3/8	175	14	113	76	23	76	10	193	66	24	8	6	6	12	6	10	40	66	80	28	5	2
AMG350C	3/8, 1/2	207	18	145	90	23	90	10	225	80	28	8	7	7	14	7	12	50	80	95	34	5	2.3
AMG450C	1/2, 3/4	228	20	166	106	23	106	10	249	90	31	10	Ø	9	18	9	15	55	88	111	50	9	3.2
AMG550C	3/4, 1	262	24	200	122	23	122	15	281	100	33	10	9	9	18	9	15	65	102	126	60	10	3.2

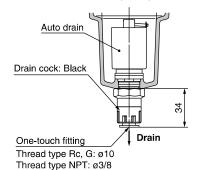
Dimensions

AMG650

180 76 12 0 160 136 **(1) ⊕ ⊕**

Auto drain

D: With auto drain (N.O.)



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AMD

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AMF

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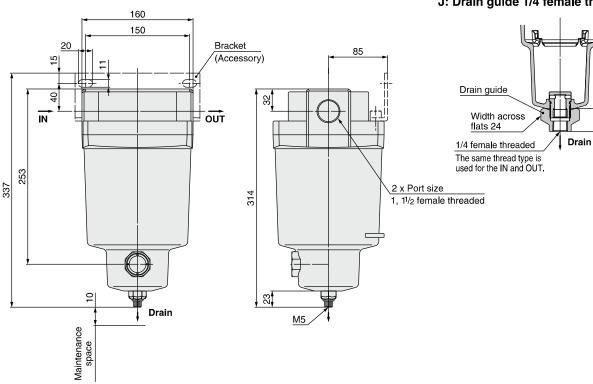
SF SFD

LLB

 $\mathsf{AD}\square$

GD

Option J: Drain guide 1/4 female threaded



Note) The figure shows the drain cock specification.



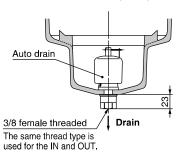
Dimensions

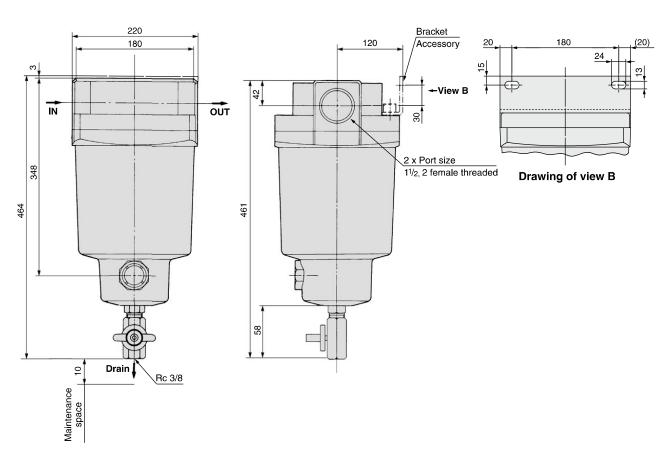
AMG850

220

Auto drain

D: With auto drain (N.O.)





Note) The figure shows the drain cock specification.

Main Line Filter AFF Series



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AMG

AFF

AM

AMD

AMH

AME

AMF

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GD

Can remove impurities such as oil, water and foreign matter in compressed air and can improve the function of a dryer in the downstream, extend the replacement period of precision filter element, and prevent trouble with the equipment.

Modular connection is possible with AFF2C to 22C.

(For details, refer to page 266.)



AFF2C to 22C



AFF37B, 75B

Symbol





(Drain cock specifications) (Auto drain specifications)

Made to Order (For details, refer to page 272.)

∕ Caution

Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Model

Model	AFF2C	AFF4C	AFF8C	AFF11C	AFF22C	AFF37B	AFF75B	AFF75A	AFF125A	AFF150A	AFF220A
Rated flow Note) (L/min (ANR))	300	750	1500	2200	3700	6000	12000	12400	23700	30000	45000
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		80(3B) IS 10K I	. ,	
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5	50	52	72	87

Note) Max. flow capacity at 0.7 MPa.

Max. flow capacity varies depending on the operating pressure.

Refer to "Flow Rate Characteristics" (page 218) and "Maximum Flow Capacity Line" below.

Specifications

Fluid	Compressed air
Max. operating pressure	1.0 MPa Note 1)
Min. operating pressure Note 2)	0 . 05 MPa
Proof pressure	1 . 5 MPa
Ambient and fluid temperature	5 to 60°C
Filtration rating	3 μm (Filtration efficiency: 99%)
Element replacement period	2 years Note 1) or when pressure drop reached 0.1 MPa

Note 1) The maximum operating pressure of the AFF75A to AFF220A is 0.97 MPa, and the element replacement period is when the pressure drop reaches 0.1 MPa or after 1 year operation. Note 2) With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)

Accessory Part No./For AFF2C to 22C, AFF37B/75B

Applicable model	AFF2C	AFF4C	AFF8C	AFF11C	AFF22C	AFF37B	AFF75B
Bracket assembly (with 2 mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57

Accessory Part No./For AFF75A to 220A

Applicable model	AFF75A	AFF220A						
Auto drain with metal case (2 pcs, each)		AD402-03-2						
Auto drain with resin case (2 pcs. each)		AD402-03						
Pressure gauge (2 pcs. each)		G46-15-02						
Companion flange (2 pcs. each)	50(2B)JIS 10K FF flange	50(2B)JIS 10K FF flange 80(3B)JIS 10K FF flange 100(4B)JIS 10K FF flange						
Anchor bolt (3 pcs. each)	AI-2S							

Model Selection

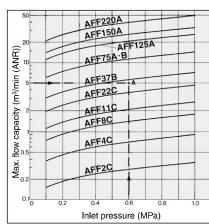
Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

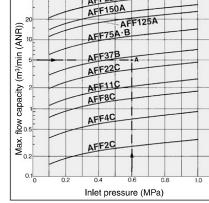
Max. flow capacity: 5 m³/min (ANR)

- 1. Obtain the intersecting point A of inlet pressure and max. flow capacity in the
- The AFF37B is obtained when the max. flow capacity line is above the intersecting point A in the graph.

Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity 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 Flow Capacity Line

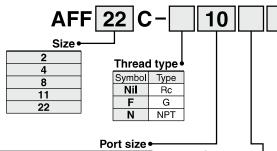






How to Order

AFF2C to 22C



Symbol	Port	Port Applicable size						
Symbol	size	2	4	8	11	22		
01	1/8							
02	1/4							
03	3/8		•	•				
04	1/2			•	•			
06	3/4				•			
10	1							

Accessory Symbol Description Nil Bracket *1 В

Bracket is included, (but not assembled).

Auto Drain Specifications/Option Combinations

- : All types of auto drain specifications are available. (including drain guide, "J" specification)
- △: N.C. auto drain ("C" specification) is not available.
- ▼: Both N.C. and N.O. auto drain ("C", "D" specification) are not available.

	Nil	F	Н	R	S	U	Т	V
Nil		0	\triangle	0		Note		0
F	0		•	0				•
Н	Δ	•		Δ				•
R	0	0	\triangle			Note		0
S								
U	Note			Note				
Т								0
V	0	•	•	0			0	

Note: Only one drain exhaust method can be selected. : Not available

Options

Made to Order

Symbols are only added at the end for Made to Order. Refer to page 272 and later for the contents of Made to Order, How to Order, and the applicable models.

Option *3

- Multiple options can be selected.
- · Refer to the table on the lower left for the available combinations. · Indicate symbols in alphabetical order.

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

- *5 Without a valve function
- *6 Differential pressure switch is included, (but not assembled).

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

Auto drain *2 *3

Symbol	Description
Nil	Without auto drain (With drain cock *4)
С	N.C. (Normally closed) Drain port is closed when pressure is not applied.
D	N.O. (Normally open) Drain port is open when pressure is not applied.

- *2 Refer to page 265 for proper use of the auto drain.
- (Only one auto drain specification can be selected.)
- *3 Refer to the table on the left for the available combinations of the auto drain specifications and options.
- *4 When the option J is selected, the auto drain and drain cock are not available.

Symbol F: Rubber material: FKM

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

Symbol R: IN-OUT reversal direction

Flow direction: Right to left Air flow is changed to right to left. (Flow direction of the standard: Left to

Symbol T: With element service indicator



Clogging of the element can be observed visually.

Symbol V: White vaseline

The body/housing is degreased, and the grease used for the parts requiring lubrication has been changed to white vaseline.

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

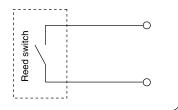
Symbol S: With differential pressure switch (with indicator)



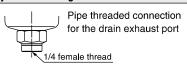
Clogging of the element can be observed visually or with an electrical signal.

* 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



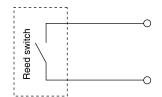
Symbol U: With differential pressure switch (with indicator)



Clogging of the element can be observed visually or with an electrical signal.

* The rated contact voltage is different

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



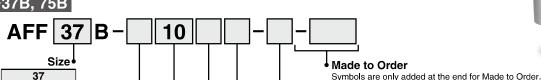


Main Line Filter AFF Series

How to Order



75





Refer to page 272 and later for the contents of Made to Order,

HAA

HAW

AT

IDF

IDU

IDF

□FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

SF

SFD

 $\mathsf{AD} \square$

GD

Thread type

Symbol Type Nil Ro F G NPT Ν

Option *2

Multiple options can be selected.

· Refer to the table below for the available combinations.

How to Order, and the applicable models.

· Indicate symbols in alphabetical order.

Symbol	Description
Nil	_
J	Drain guide 1/4 female threaded *5
R	IN-OUT reversal direction
Т	With element service indicator

*5 Without a valve function

Port size

Symbol	Port	Applica	ble size
Symbol	size	37	75
10	1	•	_
14	1 1/2	•	•
20	2	_	•

Accessory

	,
Symbol	Description
Nil	_
В	Bracket *1

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

ÅAuto drain *2

Symbol	Description
Nil	Without auto drain (With drain cock *3)
D	N.O. (Normally open) Drain port is open when pressure is not applied.

- *2 Refer to the following table for the available combinations of the auto drain specifications and options.
- *3 When the option J is selected, the auto drain and drain cock are not available.
- *4 Body size 75B is equipped with a ball valve (Rc 3/8). Mount a piping adapter IDF-AP609 (page 267) to the ball valve if NPT 3/8 female threaded is required.

Pressure gauge (Accessory)

Nil Without pressure gauge

Description

Pressure gauge (2 pcs. each)

Auto Drain Specifications/Option Combinations

Auto drain (Accessory) Description

With metal case (2 pcs. each)

With resin case (2 pcs. each)

Without auto drain

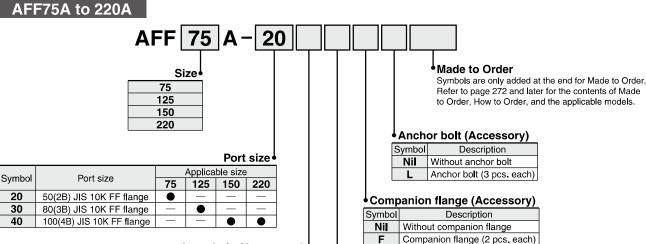
Symbol

Nil

D

P

Auto Drain Specifi	Auto Drain Specifications/Option Combinations												
Auto drain	anadifications/Ontion		Auto drain specifications		Option		Applicable model						
Auto drain	specifications/Option		D	J	R	Т	AFF37B	AFF75B					
Auto drain specifications	N.O. auto drain	D			0	0	0	0					
	Drain guide 1/4	J			0	0	0						
Option	IN-OUT reversal direction	R	©	0		0	0	0					
	With element service indicator	т	0	0	0			0					

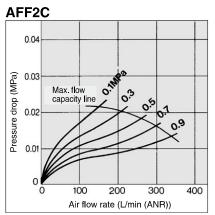


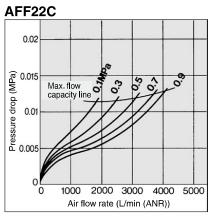
Symbol

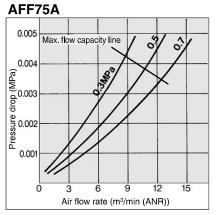
AFF Series

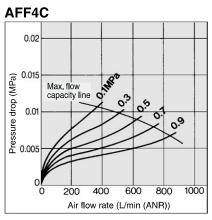
Flow Rate Characteristics (Representative values)/Select the model under the max. flow capacity line. (Element oil saturation)

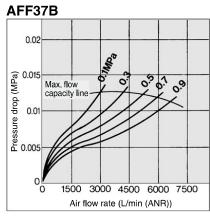
Note) Compressed air over max. flow capacity line in the table below may not meet the specifications of the product.

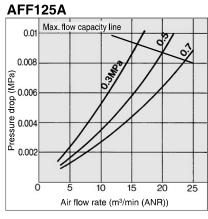


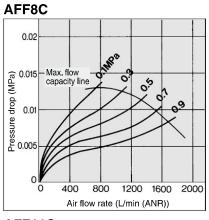


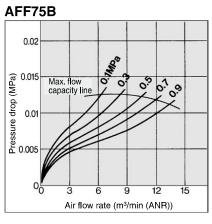


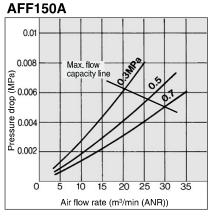


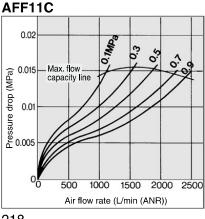


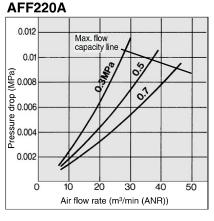






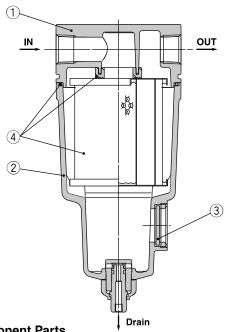






Construction

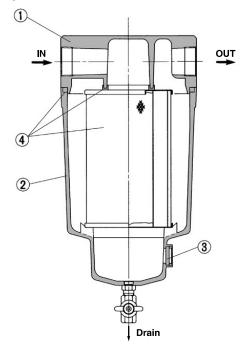
AFF2C to 22C, AFF37B



Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Inner/outer
2	Housing (Case)	Aluminum alloy	surface coating
3	Sight glass	Tempered glass	_

AFF75B



Note) The figure shows the drain cock specification.

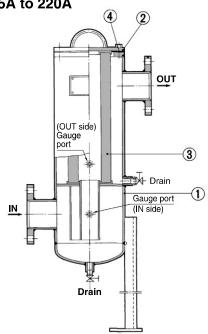
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Please refer to pages 220 through to 222 for

Replacement Parts

No	Description	Description Material	Applicable		Model											
NO.	Description		model	AFF2C	AFF4C	AFF8C	AFF11C	AFF22C	AFF37B	AFF75B						
	Element	Cotton paper,	Except option F	AFF-EL2B	AFF-EL4B	AFF-EL8B	AFF-EL11B	AFF-EL22B	AFF-EL37B	AFF-EL75B						
4	assembly	others	For option F	AFF-EL2B-F	AFF-EL4B-F	AFF-EL8B-F	AFF-EL11B-F	AFF-EL22B-F	_	_						

- Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- Refer to page 280 for replacement of auto drain.

AFF75A to 220A



Component Parts

١	No.	Description	Material	Note
	1	Case	Carbon steel	
_	2	Cover	Carbon steel	

Replacement Parts

No.	Description		O#.		Model AFF75A AFF125A AFF150A AFF220A									
	Description	materiai	Qty.	AFF75A	AFF125A	AFF150A	AFF220A							
3	Element		1	EC700)-003N	EC800-003N	EC900-003N							
4	Seal	NBR	1	AL-	33S	AL-34S	AL-35S							



HAA HAW

AT IDU

IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG



AM

AMD

AMH

AME

AMF

ZFC

SF

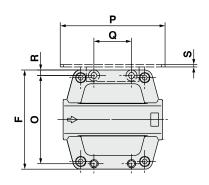
SFD

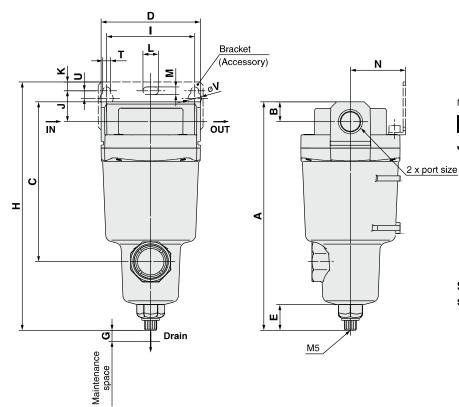
LLB AD□

AFF Series

Dimensions

AFF2C to 22C

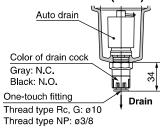




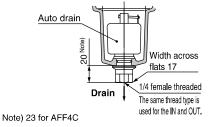
Note) The figure shows the drain cock specification.

Auto drain

C: With auto drain (N.C.)
D: With auto drain (N.O.)

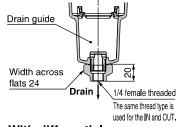


Combination of D: With auto drain (N.O.) and H: For medium air pressure

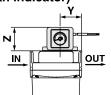


Option

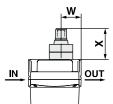
J: Drain guide 1/4 female threaded



S, U: With differential pressure switch (with indicator)



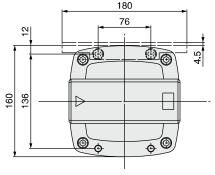
T: With element service indicator



Model	Model Port size A B C D E F G Bracket related dimensions											l sen	r related	pres switch	rential sure related nsions												
									Н	ı	J	K	Т	U	L	М	٧	N	0	P	Q	R	S	W	X	Υ	Z
AFF2C	1/8, 1/4	161	10	99	63	23	63	10	176	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6	24	37	32	41
AFF4C	1/4, 3/8	175	14	113	76	23	76	10	193	66	24	8	6	6	12	6	10	40	66	80	28	5	2	27	37	36	41
AFF8C	3/8, 1/2	207	18	145	90	23	90	10	225	80	28	8	7	7	14	7	12	50	80	95	34	5	2.3	32	37	42	41
AFF11C	1/2, 3/4	228	20	166	106	23	106	10	249	90	31	10	9	9	18	9	15	55	88	111	50	9	3.2	37	37	43	41
AFF22C	3/4, 1	262	24	200	122	23	122	15	281	100	33	10	9	9	18	9	15	65	102	126	60	10	3.2	39	37	51	41

AFF37B

180 76 12 0 160 136 (D) (o) **⊕ ⑤**



160

150

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위

Maintenance space

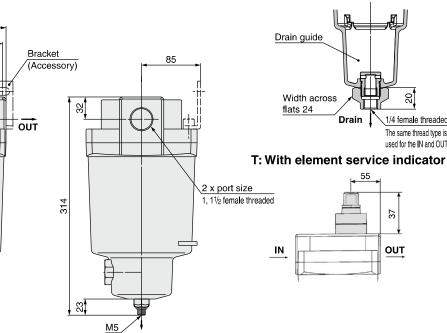
Drain

40

ĪN

253

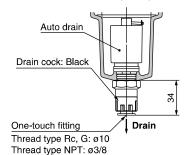
337



Note) The figure shows the drain cock specification.

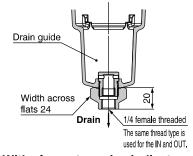
Auto drain

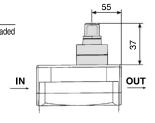
D: With auto drain (N.O.)



Option

J: Drain guide 1/4 female threaded





AMH

HAA HAW

AT

IDF IDU

IDF

□FS

IDFA

IDFB

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AFF

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AMD

AME

AMF

ZFC

SF

SFD LLB

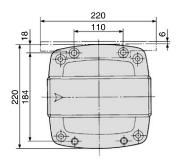
 $\mathsf{AD}\square$

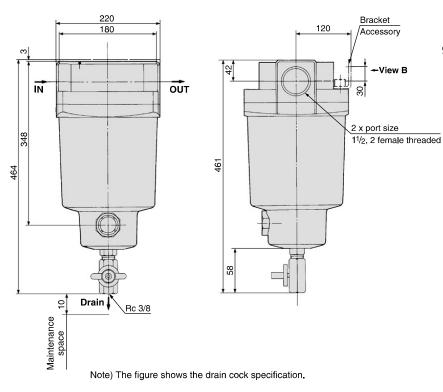


AFF Series

Dimensions

AFF75B



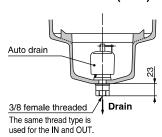


20 180 (20)

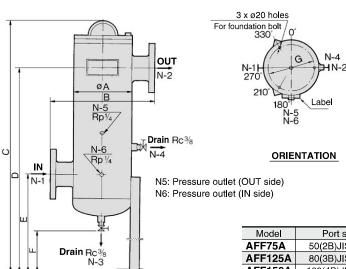
Drawing of view B

Auto drain

D: With auto drain (N.O.)

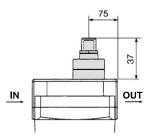


AFF75A to 220A



Option

T: With element service indicator



								(mm)
Model	Port size (Flange)	øΑ	В	С	D	Е	F	G
AFF75A	50(2B)JIS10K FF flange	200 (8B)	380	1125	935	505	265	184
AFF125A	80(3B)JIS10K FF flange	200 (8B)	380	1125	935	505	265	184
AFF150A	100(4B)JIS10K FF flange	250 (10B)	450	1178	980	540	265	236
AFF220A	100(4B)JIS10K FF flange	300 (12B)	500	1291	1070	670	325	288

Mist Separator

AM Series



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

Modular connection is possible with AM150C to 550C.

(For details, refer to page 266.)





AM150C to 550C

AM650/850

Symbol





(Drain cock specifications)

(Auto drain specifications)



Model

Model	AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
Note) Rated flow (L/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, 11/2	1 1/2, 2
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

Note) Maximum flow capacity at 0.7 MPa.

Maximum flow capacity varies depending on the operating pressure.

Refer to "Flow Rate Characteristics" (page 226) and "Max. Flow Capacity Line" (page 227) below. Note) Refer to "Made to Order" (page 276) for high flow type of AM850 or more.

Specifications							
Fluid	Compressed air						
Max. operating pressure	1.0 MPa						
Min. operating pressure*1	0.05 MPa						
Proof pressure	1.5 MPa						
Ambient and fluid temperature	5 to 60°C						
Nominal filtration rating	0.3 μm (Filtration efficiency: 99.9%)						
Oil mist density at outlet	Max. 1 mg/m³ (ANR) (≈0.8 ppm)*2						
Element replacement period	2 years or when pressure drop reached 0.1 MPa						

- *1 With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)
- *2 When the inlet oil mist density is 30 mg/m³ (ANR).

Accessory Part No.

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 the products.

Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

HAA HAW

AT

IDF IDU IDF FS

IDFA

IDFB

IDH

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AMF

ZFC

SF

SFD

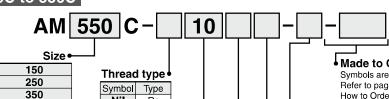
LLB

AD□



How to Order

AM150C to 550C





Nil

Ν

Rc

G

NPT

Symbol	Port	Applicable size							
Symbol	size	150	250	350	450	550			
01	1/8	•							
02	1/4	•	•						
03	3/8								
04	1/2				•				
06	3/4				•				
10	1								

450

550

Symbol	Description				
Nil	_				
В	Bracket *1				
.1 Product is included					

Accessory

Bracket is included (but not assembled)

Auto Drain Specifications/Option Combinations

- : All types of auto drain specifications are available. (including drain guide, "J" specification)
- ∴ N.C. auto drain ("C" specification) is not available.

 ▼: Both N.C. and N.O. auto drain ("C", "D" specification) are not available.

	Nil	F	Н	R	S	U	Т	V
Nil		0	\triangle	0		Note		0
F	0		•	0				•
Н	Δ	•		Δ				•
R	0	0	\triangle		Note			0
S								
U	Note			Note				
Т								0
٧	0	•	•	0			0	

Note: Only one drain exhaust method can be selected. : Not available

Made to Order

Symbols are only added at the end for Made to Order. Refer to page 272 and later for the contents of Made to Order, How to Order, and the applicable models.

Option *³

- · Multiple options can be selected.
- · Refer to the table on the lower left for the available combinations.
- · Indicate symbols in alphabetical order.

	indicate symbole in diphasotical craci.							
Symbol	Description							
Nil	-							
F	Rubber material: FKM							
Н	For medium air pressure (1.6 MPa)							
J	Drain guide 1/4 female threaded *5							
R	IN-OUT reversal direction							
S	With differential pressure switch (125 VAC, 30 VDC) *6, Note)							
U	With differential pressure switch (30 VDC) *6							
Т	Element service indicator							
V	White vaseline							

- *5 Without a valve function
- *6 Differential pressure switch is included, (but not assembled).
- Note) Select "U" if conformity to the EU directive is required.

Auto drain *2 *3

Symbol	Description
Nil	Without auto drain (With drain cock *4)
С	N.C. (Normally closed) Drain port is closed when pressure is not applied.
D	N.O. (Normally open) Drain port is open when pressure is not applied.

- *2 Refer to page 265 for proper use of the auto drain. (Only one auto drain specification can be selected.)
- *3 Refer to the table on the left for the available combinations of the auto drain specifications and options.
- *4 When the option J is selected, the auto drain and drain cock are not available.

Options

Symbol F: Rubber material: FKM

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

Symbol R: IN-OUT reversal direction

Flow direction: Right to left (Flow direction of the standard: Left to

Symbol T: With element service indicator



Clogging of the element can be observed visually.

Symbol V: White vaseline

The body/housing is degreased, and the grease used for the parts requiring lubrication has been changed to white vaseline.

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

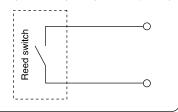
Symbol S: With differential pressure switch (with indicator)



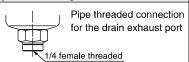
Clogging of the element can be observed visually or with an electrical signal.

* The rated contact voltage is different

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



Symbol J: Drain guide 1/4 female threaded



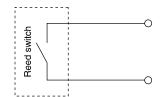
Symbol U: With differential pressure switch (with indicator)



Clogging of the element can be observed visually or with an electrical signal.

The rated contact voltage is different

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









850

Thread type

Symbol Type

Rc

G NPT

Nil

N

Port

size

11/2

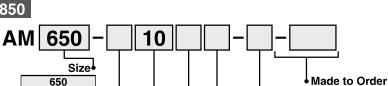
2

Symbol

10

14

20





Made to Order

Symbols are only added at the end for Made to Order. Refer to page 272 and later for the contents of Made to Order, How to Order, and the applicable models.

Option *3

- Multiple options can be selected.
- Refer to the table below for the available combinations.
- Indicate symbols in alphabetical order.

Symbol	Description						
Nil	_						
J	J Drain guide 1/4 female threaded *5						
R	IN-OUT reversal direction						
T	With element service indicator						

*5 Without a valve function

Applicable size 650 850

Port size

Accessory 4

Sym	bol	Description
Ni		_
В		Bracket *1

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

Auto drain *2

Symbol	Description
Nil	Without auto drain (With drain cock *3 *4)
D	N.O. (Normally open) Drain port is open when pressure is not applied.

- *2 Refer to the following table for the available combinations of the auto drain specifications and options.
- *3 When the option J is selected, the auto drain and drain cock are not available.
- *4 Body size 850 is equipped with a ball valve (Rc 3/8). Mount a piping adapter IDF-AP609 (page 267) to the ball valve if NPT 3/8 female threaded is required.

Auto Drain Specifications/Option Combinations

	Auto drain specifications/Option			Auto drain specifications		Option	ption Applicable		
				D	J	R	Т	AM650	AM850
	Auto drain specifications	N.O. auto drain	D			0	0	0	0
		Drain guide 1/4	J			0	0	0	
	Option	IN-OUT reversal direction	R	0	0		0	0	0
		With element service indicator	Т	0	0	0		0	0

AFF AM

HAA

HAW

AT

IDF

IDU

IDF

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

: Not available AMD

○ : Available

Symbol T: With element service indicator

Pressure

drop

0.1 MPa

Clogging of the

element can be

observed visually.

AMH

AME

AMF

ZFC

SF

SFD

 $\mathsf{AD} \square$

GD

Options

Symbol J: Drain guide 1/4 female threaded Pipe threaded connection for the drain exhaust port 1/4 female threaded

Symbol R: IN-OUT reversal direction

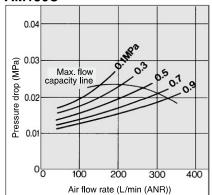
Flow direction: Right to left (Flow direction of the standard: Left to right)

AM Series

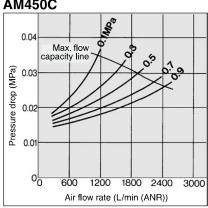
Flow Rate Characteristics (Representative values) /Select the model under the max. flow capacity line. (Element oil saturation)

Note) Compressed air over max. flow capacity line in the table below may not meet the specifications of the product.

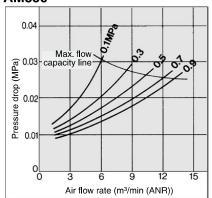
AM150C



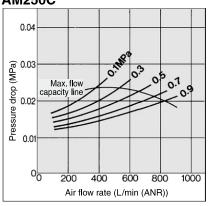
AM450C



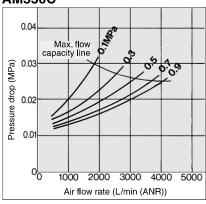
AM850



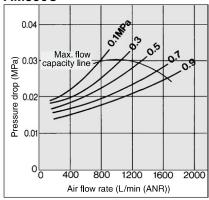
AM250C



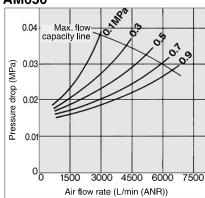
AM550C



AM350C

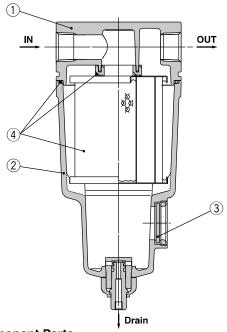


AM650



Construction

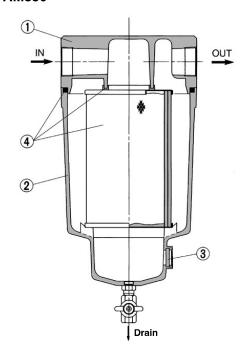
AM150C to 550C, AM650



Component Parts

No.	Description	Material	Note		
1	Body	Aluminum alloy	Inner/outer		
2	Housing (Case)	Aluminum alloy	surface coating		
3	Sight glass	Tempered glass			

AM850



Note) The figure shows the drain cock specification.

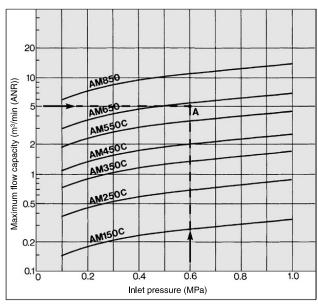
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 228 through to 230 for details.

Replacement Parts

No	Description Material	Motorial	Applicable	cable Model										
INO.		Malenai	model	AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850				
	Element	Glass fiber,	Except option F	AM-EL150	AM-EL250	AM-EL350	AM-EL450	AM-EL550	AM-EL650	AM-EL850				
4	assembly	others	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 page 280 for replacement of auto drain.

Maximum Flow Capacity Line



Model Selection

Select a model in accordance with the following procedure taking the inlet pressure and the maximum flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

Maximum flow capacity: 5 m³/min (ANR)

- Obtain the intersecting point A of inlet pressure and Maximum flow capacity in the graph.
- 2. The AM650 is obtained when the max. flow capacity line is above the intersecting point A in the graph.

Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity 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.

HAA HAW

AT IDF IDU

IDF □FS

IDFA

IDFB

IDH

ID IDG

IDK

AMG

AFF

AM

AMD

AMH

AME AMF

ZFC

SF

SFD

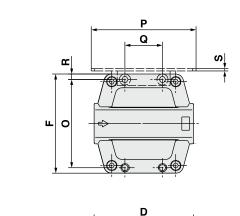
LLB

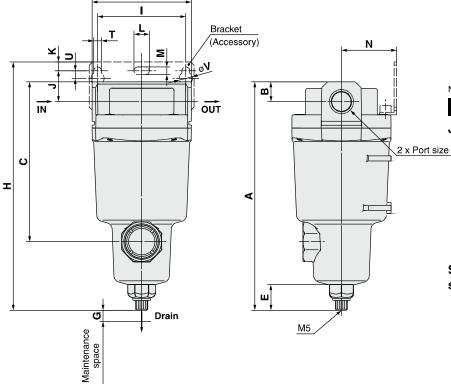
AD□

AM Series

Dimensions

AM150C to 550C

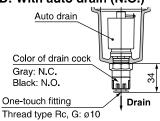




Note) The figure shows the drain cock specification.

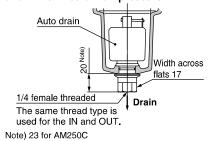
Auto drain

C: With auto drain (N.C.)
D: With auto drain (N.O.)



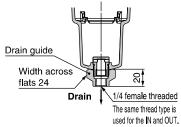
Thread type Hc, G: Ø10
Thread type NPT: Ø3/8

Combination of D: With auto drain (N.O.) and H: For medium air pressure

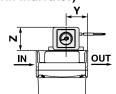


Option

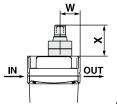
J: Drain guide 1/4 female threaded



S, U: With differential pressure switch (with indicator)



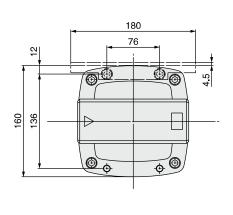
T: With element service indicator

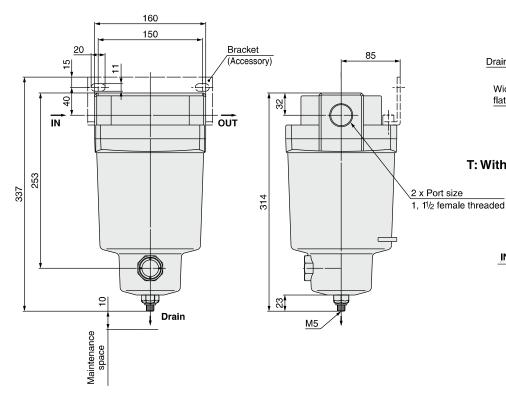


																						ı			1	((mm)
Model	Port size	А	В	С	D	Е	F	G		Bracket related dimensions					Elen sen indicator dimen	rice r related											
									Н	ı	J	K	Т	U	L	М	٧	N	0	P	Q	R	S	W	Х	Υ	Z
AM150C	1/8, 1/4	158	10	99	63	20	63	10	173	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6	24	37	32	41
AM250C	1/4, 3/8	172	14	113	76	20	76	10	190	66	24	8	6	6	12	6	10	40	66	80	28	5	2	27	37	36	41
AM350C	3/8, 1/2	204	18	145	90	20	90	10	222	80	28	8	7	7	14	7	12	50	80	95	34	5	2.3	32	37	42	41
AM450C	1/2, 3/4	225	20	166	106	20	106	10	246	90	31	10	9	9	18	9	15	55	88	111	50	9	3.2	37	37	43	41
AM550C	3/4, 1	259	24	200	122	20	122	15	278	100	33	10	9	9	18	9	15	65	102	126	60	10	3.2	39	37	51	41

Dimensions

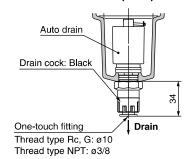
AM650





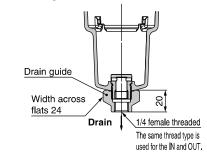
Auto drain

D: With auto drain (N.O.)

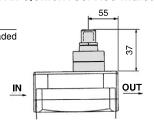


Option

J: Drain guide 1/4 female threaded



T: With element service indicator



AMF

ZFC

HAA HAW

AT

IDF IDU

IDF

□FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

AMH

AME

SF

SFD LLB

 $\mathsf{AD}\square$

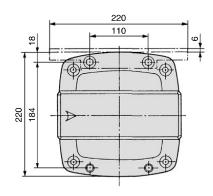
GD

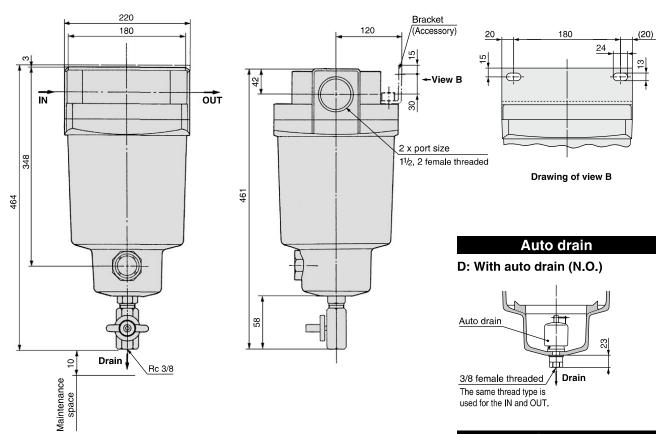
Note) The figure shows the drain cock specification.

AM Series

Dimensions

AM850

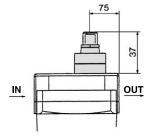




Note) The figure shows the drain cock specification.

Option

T: With element service indicator



Micro Mist Separator

AMD Series



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 266.)



AMD150C to 550C

AMD650/850







(Drain cock specifications) (Auto drain specifications)



Model

Model	AMD150C	AMD250C	AMD350C	AMD450C	AMD550C	AMD650	AMD850
Note) Rated flow (L/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	11/2, 2
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

Note) Max. flow capacity at 0.7 MPa.

Max. flow capacity varies depending on the operating pressure.

Refer to "Flow Rate Characteristics" (page 234) and "Maximum Flow Capacity Line" (page 233).

Model/Free Standing Type

3 7 7									
Model	AMD900	AMD1000							
Rated flow (L/min (ANR))	24000	40000							
Port size	50(2B), 80(3B), 100(4B)JIS 10K FF flange	100(4B), 150(6B)JIS 10K FF flange							
Weight (kg)	220	430							

Specifications

Fluid	Compressed air						
Max. operating pressure	1.0 MPa Note 3)						
Min. operating pressure Note 1)	0.05 MPa						
Proof pressure	1.5 MPa						
Ambient and fluid temperature	5 to 60°C						
Filtration rating	0.01 μm (Filtration efficiency: 99.9%)						
Oil mist density at outlet	Max. 0.1 mg/m ³ (ANR) Note 2)						
Oil mist density at outlet	(Before saturated with oil, less than 0.01 mg/m³ (ANR) ≈0.008 ppm)						
Element replacement period	2 years (1 year for free standing type)						
Element replacement period	or when pressure drop reached 0.1 MPa						

Note 1) With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)

Note 2) When the inlet oil mist density is 30 mg/m³ (ANR).

Note 3) 0.97 MPa for free standing type

Accessory Part No.

Α	pplicable model	AMD150C	AMD250C	AMD350C	AMD450C	AMD550C	AMD650	AMD850
Br	racket assembly	AM-BM101	AM DM100	AM-BM103	AM DM104	AM DM10E	BM56	BM57
(with	2 mounting screws)	AIVI-DIVITOT	AIVI-DIVI 102	AIVI-DIVI 103	AIVI-DIVITU4	AIVI-DIVITUS	DIVIDO	DIVIO

⚠ Caution

Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

HAA HAW

AT

IDF IDU IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD AMH

AME

AMF

ZFC

SF

SFD

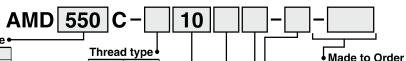
LLB

AD□



How to Order

AMD150C to 550C



Accessory 4 Symbol Description

Bracket *1

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

Nil

В



-	1126
150	
250	
350	
450	
550	

Thread	type
Symbol	Type
Nil	Rc
F	G
N	NPT

Symbols are only added at the end for Made to Order. Refer to page 272 and later for the contents of Made to Order, How to Order, and the applicable models.

Option *3

- Multiple options can be selected.
- Refer to the table on the lower left for the available combinations.
- Indicate symbols in alphabetical order.

Symbol	Description							
Nil	_							
F	Rubber material: FKM							
Н	For medium air pressure (1.6 MPa)							
J	Drain guide 1/4 female thread *5							
R	IN-OUT reversal direction							
S	With differential pressure switch (125 VAC, 30 VDC) *6, Note)							
U	With differential pressure switch (30 VDC) *6							
T	With element service indicator							
V	White vaseline							

- *5 Without a valve function
- *6 Differential pressure switch is included, (but not assembled).
- Note) Select "U" if conformity to the EU directive is required.

Port size

					• • • •	
Cumala al	Port		Appl	icable	size	
Symbol	size	150	250	350	450	550
01	1/8	•				
02	1/4	•	•			
03	3/8		•	•		
04	1/2			•	•	
06	3/4				•	•
10	1					

Auto Drain Specifications/Option Combinations

- \odot : All types of auto drain specifications are available. (including drain guide, "J" specification)
- ∴ N.C. auto drain ("C" specification) is not available.
 ▼: Both N.C. and N.O. auto drain ("C", "D" specification) are not available.

	Nil	F	Н	R	S	U	T	\ \ \ \
Nil		0	\triangle	0		Note		0
F	0		•	0				•
Н	Δ	•		Δ				•
R	0	0	\triangle			Note		0
S								
U	Note			Note				
Т								0
V	0	•	•	0			0	

Note: Only one drain exhaust method can be selected. : Not available

Auto drain *2 *3

Symbol	Description
Nil	Without auto drain (With drain cock *4)
С	N.C. (Normally closed) Drain port is closed when pressure is not applied.
D	N.O. (Normally open) Drain port is open when pressure is not applied

- *2 Refer to page 265 for proper use of the auto drain. (Only one auto drain specification can be selected.)
- *3 Refer to the table on the left for the available combinations of the auto drain specifications and options.
- *4 When the option J is selected, the auto drain and drain cock are not available.

Options

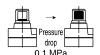
Symbol F: Rubber material: FKM

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

Symbol R: IN-OUT reversal direction

Flow direction: Right to left (Flow direction of the standard: Left to right)

Symbol T: With element service indicator



Clogging of the element can be observed visually.

Symbol V: White vaseline

The body/housing is degreased, and the grease used for the parts requiring lubrication has been changed to white vaseline.

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

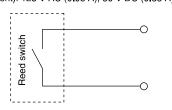
Symbol S: With differential pressure switch (with indicator)



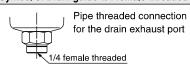
Clogging of the element can be observed visually or with an electrical signal.

* 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



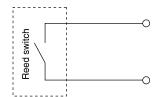
Symbol U: With differential pressure switch (with indicator)



Clogging of the element can be observed visually or with an electrical signal.

* The rated contact voltage is different

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

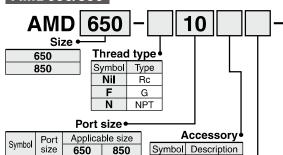




Micro Mist Separator AMD Series

How to Order

AMD650/850



					_						
0	Port	Applica	ble size	١.		Accessory					
Symbol	size	650 850		1	Symbol	Description					
10	1	•	_	1	Nil	l					
14	1 1/2	•	•	1	В	Bracket *1					
20	2	_	•	1	*1 Brack	et is included,					
			•	-	(but n	ot assembled)					

Auto drain *2

Symbol	Description
Nil	Without auto drain (With drain cock *3 *4)
D	N.O. (Normally open) Drain port is open when pressure is not applied.

- *2 Refer to the table on the right for the available combinations of the auto drain specifications and options.
- *3 When the option J is selected, the auto drain and drain cock are not available.
- *4 Body size 850 is equipped with a ball valve (Rc 3/8). Mount a piping adapter IDF-AP609 (page 267) to the ball valve if NPT 3/8 female threaded is required.

Made to Order

Symbols are only added at the end for Made to Order. Refer to page 272 and later for the contents of Made to Order, How to Order, and the applicable models.

Option *3

- Multiple options can be selected.
- · Refer to the table below for the available combinations.
- · Indicate symbols in alphabetical order.

Symbol	Description
Nil	_
J	Drain guide 1/4 female threaded *5
R	IN-OUT reversal direction
Т	With element service indicator

*5 Without a valve function

Auto Drain Specifications/ **Option Combinations**

Available

☐: Not available

IDH

HAA

HAW

AT

IDF

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AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

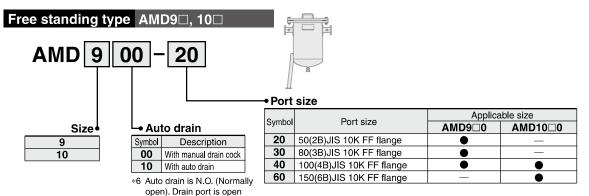
SF

SFD

AD

GD

Option Comm			···		u		· aranabio	
Auto drain	specifications/Option		Auto drain specifications	C	ptio	n	Applicab	le model
			D	J	R	Т	AMD650	AMD850
Auto drain specifications	N.O. auto drain	D			0	0	0	0
	Drain guide 1/4	J			0	0	0	
Option	IN-OUT reversal direction	R	0	0		0	0	0
	With element service indicator	T	0	0	0		0	0



Model Selection

Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

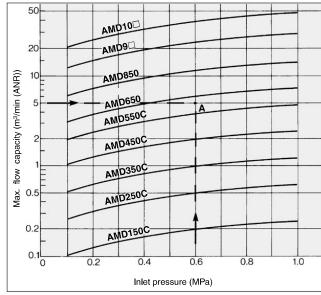
when pressure is not applied.

Max. flow capacity: 5 m³/min (ANR)

- 1. Obtain the intersecting point A of inlet pressure and max, flow capacity in the graph.
- 2. The AMD650 is obtained when the max. flow capacity line is above the intersecting point A in the graph.

Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity 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.

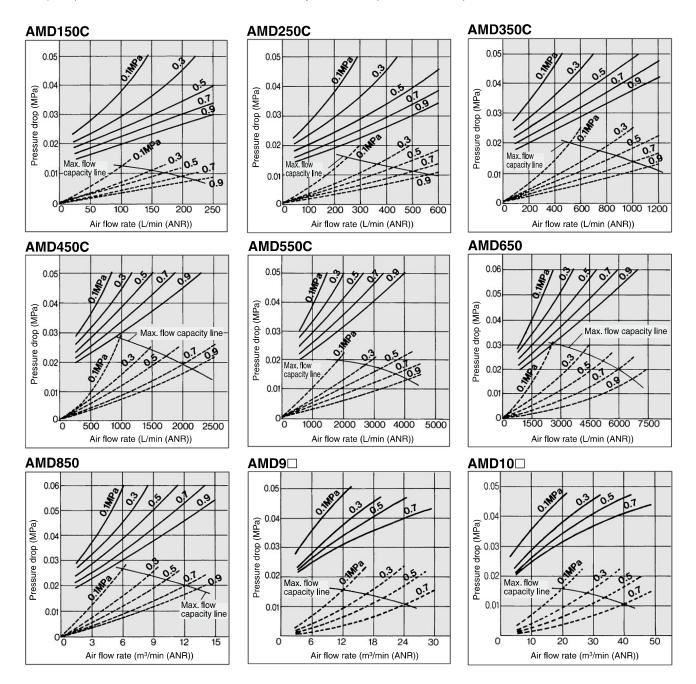
Maximum Flow Capacity Line



AMD Series

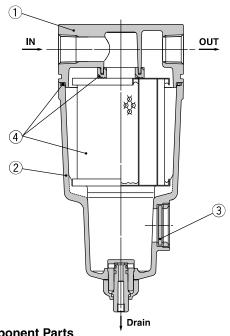
Flow Rate Characteristics (Representative values)/Select the model under the max. flow capacity line. (—— Element oil saturation ---- Initial condition)

Note) Compressed air over max. flow line in the table below may not meet the specifications of the product.



Construction

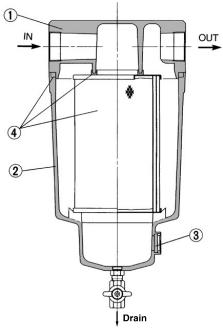
AMD150C to 550C, AMD650



Component Parts

No.	Description	Material	Note											
1	Body	Aluminum alloy	Inner/outer											
2	Housing (Case)	Housing (Case) Aluminum alloy												
3	Sight glass	Tempered glass	_											

AMD850



Note) The figure shows the drain cock specification.

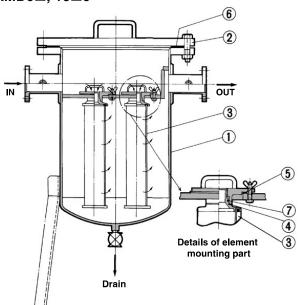
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 236 through to 239 for details.

Replacement Parts

No	Description	Material	Applicable				Model				
No.	Description	Materiai	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	
4	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 page 280 for replacement of auto drain.

AMD9□, 10□0



Component Parts/Material

No.	Description	Model
NO.	Description	AMD9□, 10□
1	Case	Carbon steel
2	Cover	Carbon steel

Replacement Parts

<u> </u>											
No.	Description	Material	Model								
INO.	Description	Material	AMD9□	AMD10□							
3	Element	_	63174 3 pcs.	63174 5 pcs.							
4	Seal	NBR	63148 3 pcs.	63148 5 pcs.							
5	Seal	NBR	O.D112 x I.D90 x T3 3 pcs.	O.D112 x I.D90 x T3 5 pcs.							
6	Gasket	V#6500	AL-63S	AL-31S							
7	O-ring	NBR	KA00061 3 pcs.	KA00061 5 pcs.							

HAA HAW AT IDF

IDU

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IDFA

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IDG

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AMG

AFF

AM

AMD AMH

AME

AMF

ZFC SF

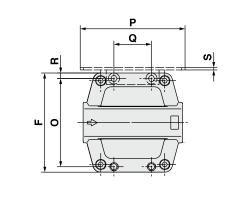
SFD

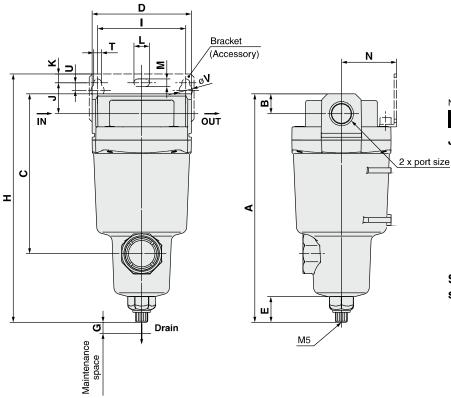
AD

AMD Series

Dimensions

AMD150C to 550C

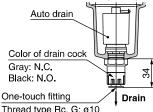




Note) The figure shows the drain cock specification.

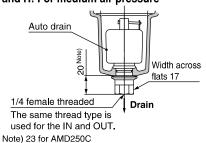
Auto drain

C: With auto drain (N.C.)
D: With auto drain (N.O.)



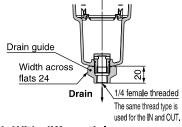
Thread type Rc, G: ø10 Thread type NPT: ø3/8

Combination of D: With auto drain (N.O.) and H: For medium air pressure

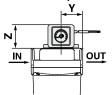


Option

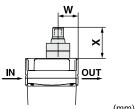
J: Drain guide 1/4 female threaded



S, U: With differential pressure switch (with indicator)



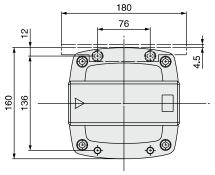
T: With element service indicator

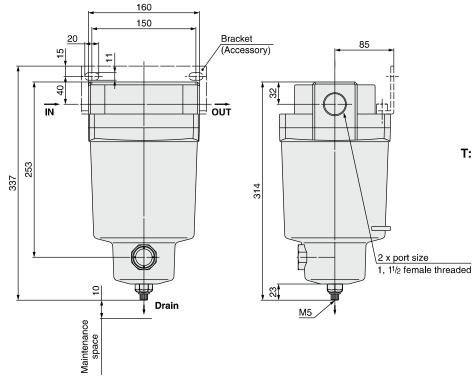


Model	odel Port size A B C D E F G Bracket related dimensions						Element service indicator related dimensions		Differential pressure switch related dimensions																		
									Н	ı	J	K	Т	U	L	М	٧	N	0	Р	Q	R	S	W	Х	Υ	Z
AMD150C	1/8, 1/4	161	10	99	63	23	63	10	176	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6	24	37	32	41
AMD250C	1/4, 3/8	175	14	113	76	23	76	10	193	66	24	8	6	6	12	6	10	40	66	80	28	5	2	27	37	36	41
AMD350C	3/8, 1/2	207	18	145	90	23	90	10	225	80	28	8	7	7	14	7	12	50	80	95	34	5	2.3	32	37	42	41
AMD450C	1/2, 3/4	228	20	166	106	23	106	10	249	90	31	10	9	9	18	9	15	55	88	111	50	9	3.2	37	37	43	41
AMD550C	3/4, 1	262	24	200	122	23	122	15	281	100	33	10	9	9	18	9	15	65	102	126	60	10	3.2	39	37	51	41

AMD650

180 76 12 0 160 136 **⊕ ⊚** <u>(1)</u>

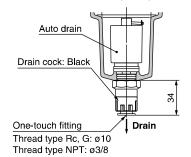




Note) The figure shows the drain cock specification.

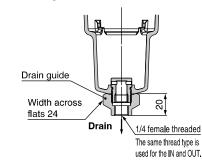
Auto drain

D: With auto drain (N.O.)

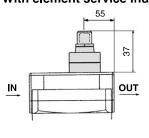


Option

J: Drain guide 1/4 female threaded



T: With element service indicator



HAA HAW

AT IDF

IDU IDF

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

SF

SFD LLB

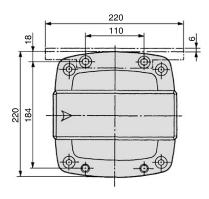
 $\mathsf{AD}\square$

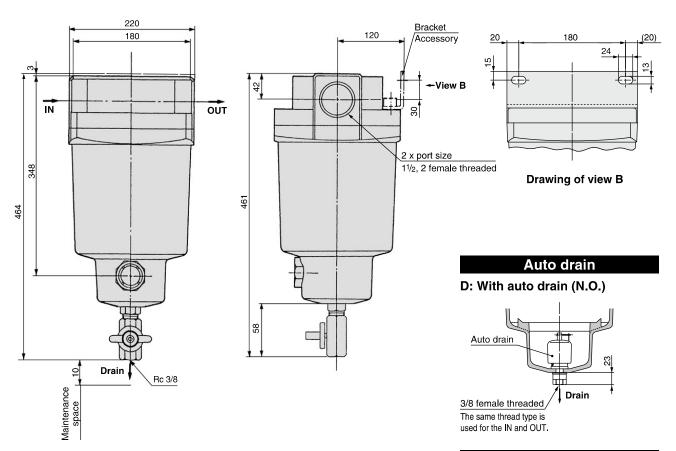
AMD Series

Dimensions

AMD850

238

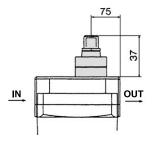




Note) The figure shows the drain cock specification.

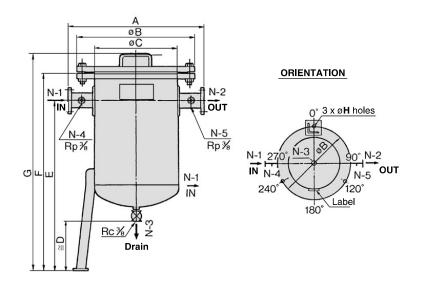
Option

T: With element service indicator



Dimensions

AMD9□, 10□



									(mm)
Model	Port size (Flange)	Α	øΒ	øС	D	E	Ŧ	Ð	Н
AMD9□	50(2B), 80(3B), 100(4B)JIS 10K FF flange	720	560	400	300	1320	1480	1585	24
AMD10□	100(4B), 150(6B)JIS 10K FF flange	870	745	550	300	1380	1610	1740	24

HAA HAW

AT

IDF IDU

IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

SF

SFD

LLB

AD□

Micro Mist Separator with Pre-filter

AMH Series



HAW

AT

IDU

IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

AMH

AME

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.

The AM series and AMD series have been integrated to achieve a reduction in installation space and in piping labor.

Modular connection is possible with AMH150C to 550C. (For details, refer to page 266.)



Symbol





(Drain cock specifications) (Auto drain specifications)



Model

Model	AMH150C	AMH250C	AMH350C	AMH450C	AMH550C	AMH650	AMH850
Note) Rated flow (L/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
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

Note) Max. flow capacity at 0.7 MPa.

Max. flow capacity varies depending on the operating pressure.

Refer to "Flow Rate Characteristics" (page 244) and "Maximum Flow Capacity Line" below.

Specifications

Fluid	Compressed air
Max. operating pressure	1.0 MPa
Min. operating pressure*1	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5 to 60°C
Nominal filtration density	0.01 μm (Filtration efficiency: 99.9%)
Oil mist density at outlet	Max. 0.1 mg/m³ (ANR)*2
On mist density at outlet	(Before saturated with oil, less than 0.01 mg/m³ (ANR) ≈0.008 ppm)
Element replacement period	2 years or when pressure drop reached 0.1 MPa

- *1 With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)
- *2 When the inlet oil mist density is 30 mg/m³ (ANR).

Accessory Part No.

Applicable model	AMH150C	AMH250C	AMH350C	AMH450C	AMH550C	AMH650	AMH850
Bracket assembly	AM-BM101	AM DM100	AM-BM103	AM DM104	VM DM10E	BM56	BM57
(with 2 mounting screws)	AIVI-DIVITUT	AIVI-DIVITUZ	AIVI-DIVI 103	AIVI-DIVITU4	AIVI-DIVITUS	DIVIDO	DIVIO

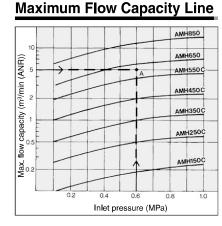
Model Selection

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

(Example) Inlet pressure: 0.6 MPa Max. flow capacity: 5 m³/min (ANR)

- 1. Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
- 2. The AMH650 is obtained when the max. flow capacity line is above the intersecting point A in the graph.

Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity 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.



AMF

ZFC

SF

SFD

LLB

AD□

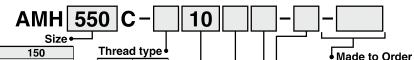
GD

⚠ Caution

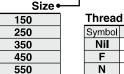
Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

How to Order

AMH150C to 550C



Ni В





Option *3

Accessory Symbol Description

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

- · Multiple options can be selected.
- Refer to the table on the lower left for the available combinations.

How to Order, and the applicable models.

Symbols are only added at the end for Made to Order.

Refer to page 272 and later for the contents of Made to Order,

Indicate symbols in alphabetical order.

Symbol	Description
Nil	_
F	Rubber material: FKM
H	For medium air pressure (1.6 MPa)
J	Drain guide 1/4 female threaded *5
R	IN-OUT reversal direction
S	With differential pressure switch (125 VAC, 30 VDC) *6, Note)
U	With differential pressure switch (30 VDC) *6
Т	With element service indicator
V	White vaseline
- 1100	

- *5 Without a valve function
- *6 Differential pressure switch is included, (but not assembled).

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

Port size •

Symbol	Port		Appl	icable	size	
Symbol	size	150	250	350	450	550
01	1/8	•				
02	1/4	•	•			
03	3/8		•			
04	1/2				•	
06	3/4				•	•
10	1					•

Drain Exhaust Specifications/Option Combinations

- : All types of drain exhaust specifications are available. (including drain guide, "J" specification)
- △: N.C. auto drain ("C" specification) is not available.
 ▼: Both N.C. and N.O. auto drain ("C", "D" specification) are not available.

	Nil	F	Н	R	S	U	Т	V
Nil		0	\triangle	0		Note		0
F	0		•	0				•
Н	Δ	•		Δ				•
R	0	0	\triangle			Note		0
S								
U	Note			Note				
Т								0
V	0	•	•	0			0	

Note: Only one drain exhaust method can be selected. : Not available

Auto drain *2 *3

Symbol	Description
Nil	Without auto drain (With drain cock *4)
С	N.C. (Normally closed) Drain port is closed when pressure is not applied.
D	N.O. (Normally open) Drain port is open when pressure is not applied.

- *2 Refer to page 265 for proper use of the auto drain. (Only one auto drain specification can be selected.)
- *3 Refer to the table on the left for the available combinations of the auto drain specifications and options.
- *4 When the option J is selected, the auto drain and drain cock are not available.

Options

Symbol F: Rubber material: FKM

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

Symbol R: IN-OUT reversal direction

Flow direction: Right to left (Flow direction of the standard: Left to

Symbol T: With element service indicator



Clogging of the element can be observed visually.

Symbol V: White vaseline

The body/housing is degreased, and the grease used for the parts requiring lubrication has been changed to white vaseline.

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

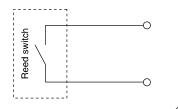
Symbol S: With differential pressure switch (with indicator)



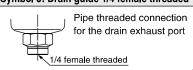
Clogging of the element can be observed visually or with an electrical signal.

* 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



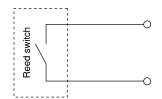
Symbol U: With differential pressure switch (with indicator)



Clogging of the element can be observed visually or with an electrical signal.

The rated contact voltage is different

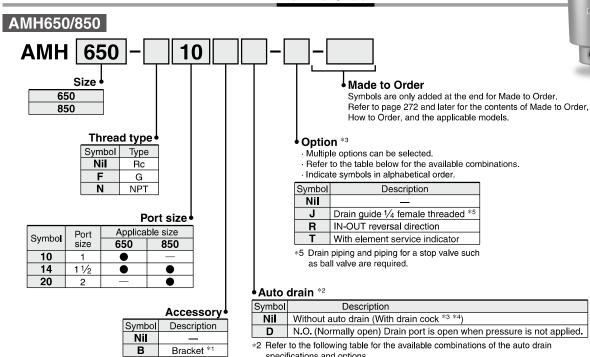
Max. contact capacity: 10 W DC Rated contact voltage (max. operating current): 30 V DC (0.33 A)





Micro Mist Separator with Pre-filter AMH Series

How to Order



specifications and options.

Auto Drain Specifications/Option Combinations

*1 Bracket is included,

(but not assembled).

					~	_				
Auto drain	specifications/Option		Auto drain specifications		Option	·	Applicable model			
Auto drain s	specifications/Option		D	J	R	Т	AMH650	AMH850		
Auto drain specifications	N.O. auto drain	D			0	0	0	0		
	Drain guide 1/4				0	0	0			
Option	IN-OUT reversal direction	R	0	0		0	0	0		
	With element service indicator	Т	0	0	0		0	0		

*3 When the option J is selected, the auto drain and drain cock are not available.

IDF-AP609 (page 267) to the ball valve if NPT3/8 female threaded is required.

*4 Body size 850 is equipped with a ball valve (Rc3/8). Mount a piping adapter

HAA HAW

AT

IDF IDU

IDF

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

 AMH

: Not available

○: Available

AME

AMF

ZFC

SF

SFD

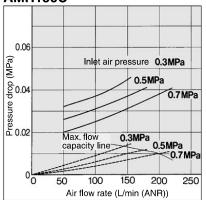
LLB $\mathsf{AD} \square$

AMH Series

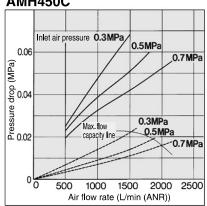
Flow Rate Characteristics (Representative values)/Select the model under the max. flow capacity line. (—— Element oil saturation ---- Initial condition)

Note) Compressed air over max. flow capacity line in the table below may not meet the specifications of the product.

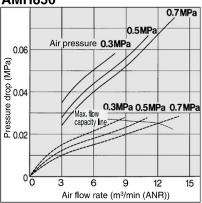
AMH150C



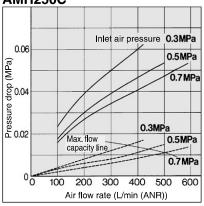
AMH450C



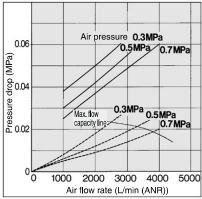
AMH850



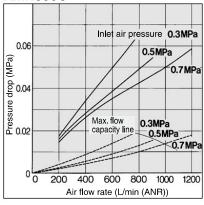
AMH250C



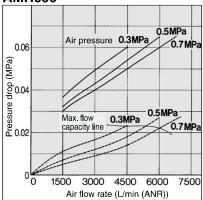
AMH550C



AMH350C



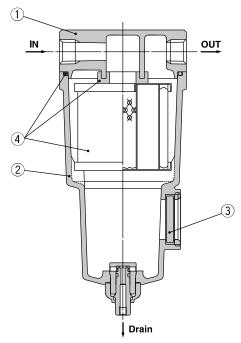
AMH650



Micro Mist Separator with Pre-filter AMH Series

Construction

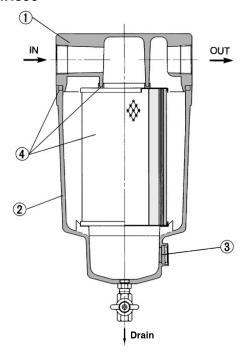
AMH150C to 550C, **AMH650**



Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Inner/outer
2	Housing (Case)	Aluminum alloy	surface coating
3	Sight glass	t glass Tempered glass	

AMH850



Note) The figure shows the drain cock specification.

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 246 through to 248 for details.

Replacement Parts

No	Description	Motorial	Applicable				Model				
INO.	Description	Material	model	AMH150C	AMH250C	AMH350C	AMH450C	AMH550C	AMH650	AMH850	
4	Element	Glass fiber,	Except option F	AMH-EL150	AMH-EL250	AMH-EL350	AMH-EL450	AMH-EL550	AMH-EL650	AMH-EL850	
4	assembly	others	For option F	AMH-EL150-F	AMH-EL250-F	AMH-EL350-F	AMH-EL450-F	AMH-EL550-F	_	_	

Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
 Refer to page 280 for replacement of auto drain.

HAA HAW

AT IDF IDU

IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD



AME

AMF

ZFC SF

SFD

LLB

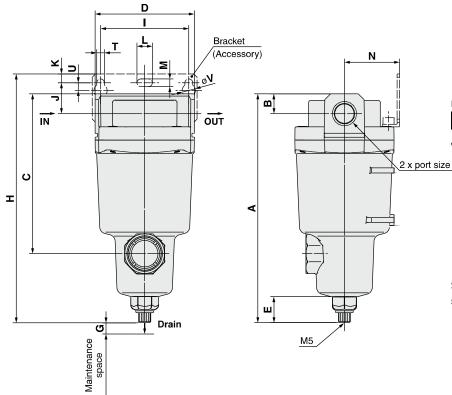
AD□

AMH Series

Dimensions

AMH150C to 550C

L O



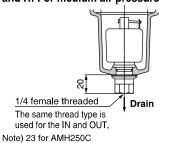
Note) The figure shows the drain cock specification.

Auto drain

C: With auto drain (N.C.)
D: With auto drain (N.O.)

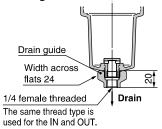


Combination of D: With auto drain (N.O.) and H: For medium air pressure

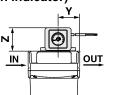


Option

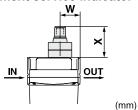
J: Drain guide 1/4 female threaded



S, U: With differential pressure switch (with indicator)



T: With element service indicator



Model	Port size	A	В	С	D	E	F	G		Bracket related dimensions								Eler sen indicator dimer	rice r related	pres switch	rential sure related nsions						
									H	ı	7	Κ	Т	υ	L	М	٧	N	0	Р	Q	R	S	W	X	Υ	Z
AMH150C	1/8, 1/4	161	10	99	63	23	63	10	176	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6	24	37	32	41
AMH250C	1/4, 3/8	175	14	113	76	23	76	10	193	66	24	8	6	6	12	6	10	40	66	80	28	5	2	27	37	36	41
AMH350C	3/8, 1/2	207	18	145	90	23	90	10	225	80	28	8	7	7	14	7	12	50	80	95	34	5	2.3	32	37	42	41
AMH450C	1/2, 3/4	228	20	166	106	23	106	10	249	90	31	10	9	9	18	9	15	55	88	111	50	9	3.2	37	37	43	41
AMH550C	3/4, 1	262	24	200	122	23	122	15	281	100	33	10	9	9	18	9	15	65	102	126	60	10	3.2	39	37	51	41

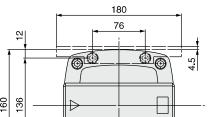
Dimensions

AMH650

180 76 12 160 136 **⊕ ⊚** <u>(1)</u>

160 150

<u>20</u>



Auto drain

HAA HAW

AT

IDF IDU

IDF

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

SF

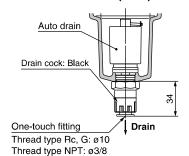
SFD

LLB

 $AD\square$

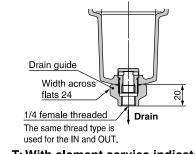
GD

D: With auto drain (N.O.)

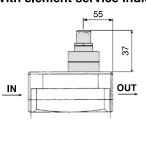


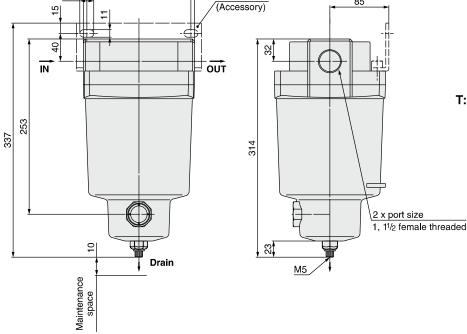
Option

J: Drain guide 1/4 female threaded



T: With element service indicator





Bracket

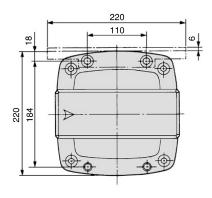
85

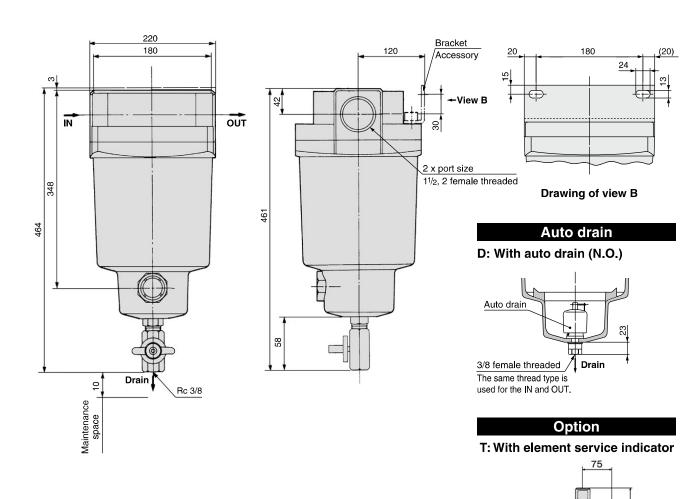
Note) The figure shows the drain cock specification.

AMH Series

Dimensions

AMH850





37

OUT

<u>IN</u>

Super Mist Separator

AME Series



Can separate and adsorb aerosol state fine oil particles in compressed air and change the oil lubricating compressed air to oilless air or equivalent.

Use this product for filtration of compressed air requiring higher clean air for painting lines, compressed air for clean rooms and/or equipment where oils must be avoided.

The replacement time of the element is indicated by a color change. When the element becomes saturated with oil content, a red color spot will begin to appear on the front surface.

When the red color spot becomes visible, replace the element immediately.

⚠ Caution

Be sure to use either the AM, AMD, or AMH series as a pre-filter.

Modular connection is possible with AME150C to 550C.

(For details, refer to page 266.)



AME150C to 350C AME450C/550C





Model

Model	AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850
Note) Rated flow (L/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
Weight (kg)	0.3	0.48	0.8	1.3	2.0	4.2	10.5

Note) Max. flow capacity at 0.7 MPa.

Max. flow capacity varies depending on the operating pressure.

Refer to "Flow Rate Characteristics" and "Maximum Flow Capacity Line" (page 252).

Specifications

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
Filtration rating	0.01 μm (Filtration efficiency: 99.9%)
Cleanliness at outlet Note 2)	Less than 100 particles of 0.3 µm or larger per cubic foot [Less than 35 particles per 10 liters (ANR)]
Oil mist density at outlet	Max. 0.01 mg/m³ (ANR) (≈0.008 ppm)
	Replace the element when a red color spot occurred on the surface. Note 1)
Element replacement period	Even if a red color spot does not appear on the surface, the replacement interval for the element is when the pressure drop reaches 0.1 MPa or after two years of operation, whichever comes first.

Note 1) Failure to replace the element when the red color spot begins to appear will result in red-pigmented oil content leaking into the secondary side. If immediate element replacement is for some reason not an option, an AMF must be installed on the secondary side and the element should be replaced as soon as possible. In such cases, the AMF element should be replaced at the same time.

Note 2) Depending on the operating conditions, only a miniscule amount of red pigment, which will not affect filtration performance, may leak into the secondary side. Prolonged use under such conditions may result in minimal red-pigmented residue on the interior of the piping on the secondary side.

Accessory Part No.

Applicable model	AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850
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 the products. Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions. HAA HAW

AT

IDF IDF □FS

IDFA IDFB

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IDH

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IDK

AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

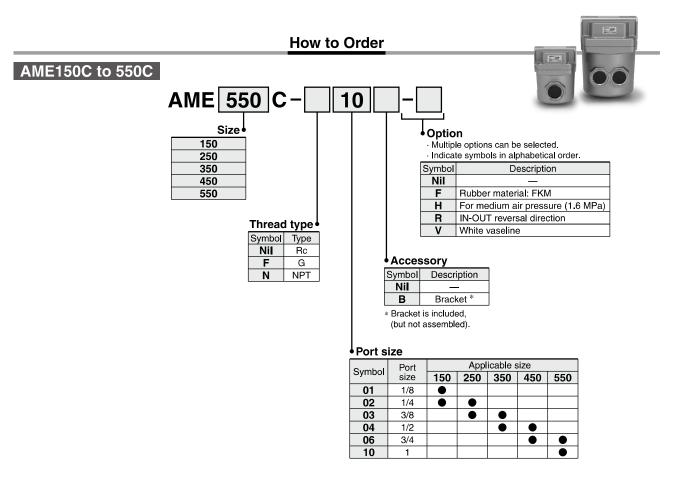
SF

SFD

LLB

AD□

AME Series



Options

Symbol F: Rubber material: FKM

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

Symbol V: White vaseline

The body/housing is degreased, and the grease used for the parts requiring lubrication has been changed to white vaseline.

Symbol H: For medium air pressure (1.6 MPa)

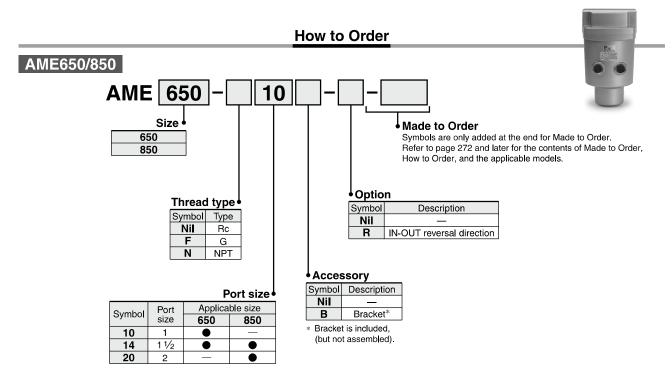
Can be used up to 1.6 MPa at maximum.

Symbol R: IN-OUT reversal direction

Flow direction: Right to left (Flow direction of the standard: Left to right)



Super Mist Separator AME Series



HAA HAW

AT

IDF IDU

IDF □FS

IDFA

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AMF

ZFC

SF

SFD

LLB

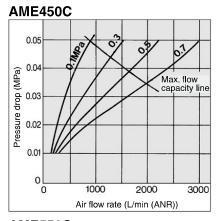
AD□

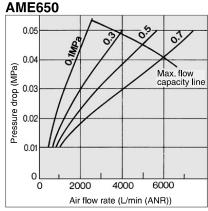
AME Series

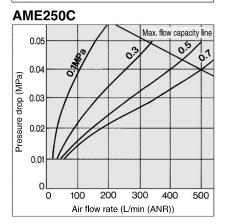
Flow Rate Characteristics (Representative values) /Select the model under the max. flow capacity line. (Element initial condition)

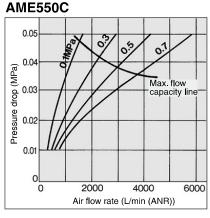
Note) Compressed air over max, flow capacity line in the table below may not meet the specifications of the product.

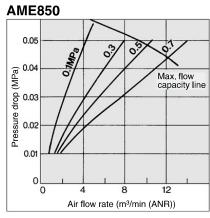
AME150C 0.05 0.04 0.04 0.09 0.09 0.00 Max. flow capacity line 0.00 Air flow rate (L/min (ANR))

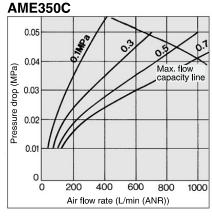










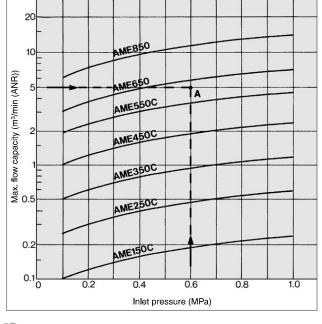


Maximum Flow Capacity Line

Model Selection Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa Max. flow capacity: 5 m³/min (ANR) 1. Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.

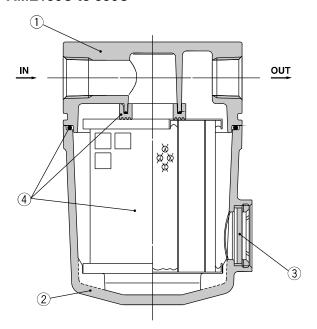
 The AME650 is obtained when the max. flow capacity line is above the intersecting point A in the graph.
 Note) Make sure to select a model that has the max. flow capacity line above

Note) Make sure to select a model that has the max. How capacity line above the obtained intersecting point. With a model that has the max. flow capacity 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.

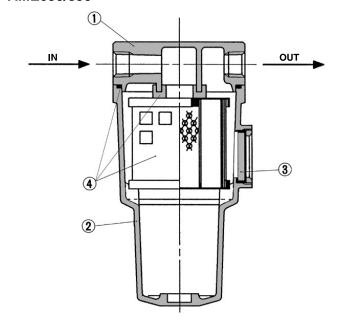


Construction

AME150C to 550C



AME650/850



Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Inner/outer
2	Housing (Case)	Aluminum alloy	surface coating
3	Sight glass	Tempered glass	-

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 254 through to 256 for details.

Replacement Parts

No	Description	Motorial	Applicable				Model			
INO.	Description	Material	model	AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850
4	Element	Glass fiber,	Except option F	AME-EL150	AME-EL250	AME-EL350	AME-EL450	AME-EL550	AME-EL650	AME-EL850
4	assembly	others	For option F	AME-EL150-F	AME-EL250-F	AME-EL350-F	AME-EL450-F	AME-EL550-F	_	_

[•] Element assembly: With gasket (1 pc.) and O-ring (1 pc.)

HAA HAW

IDF IDU

□FS IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

SF

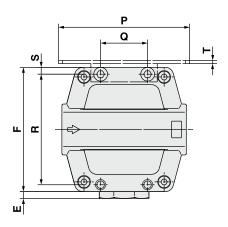
SFD

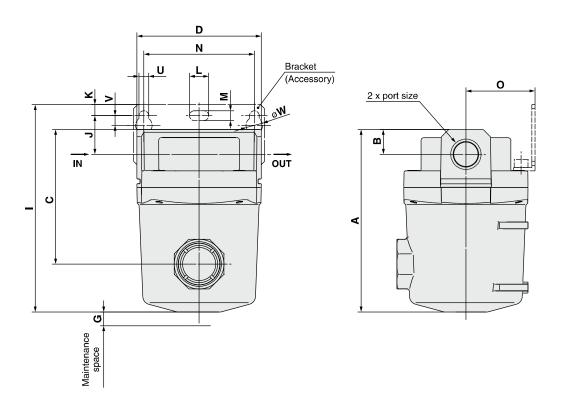
LLB

AD□

Dimensions

AME150C to 350C

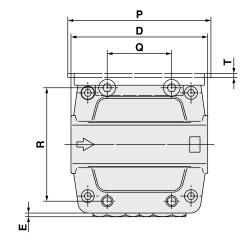


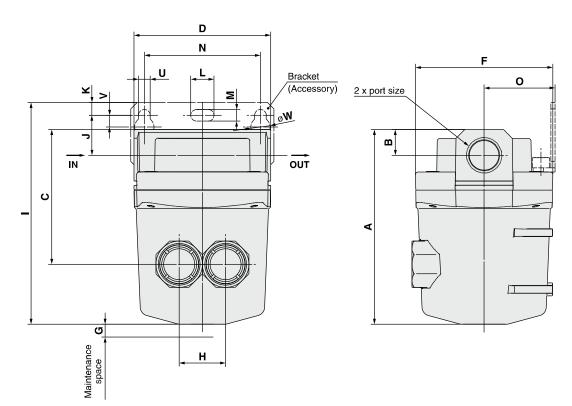


																							(mm)
Model	Port size		В	_	D	_	_)					Br	acke	t relat	ed di	mens	ions					
Model	FUIT SIZE	Α .	-		ם	=		G	ı	N	J	K	U	V	L	М	W	0	Р	Q	R	S	Т
AME150C	1/8, 1/4	83	10	54	63	7.5	63	10	99	56	20	5	6	6	12	6	10	35	70	26	54	4.5	1.6
AME250C	1/4, 3/8	103	14	73	76	5	76	10	121	66	24	8	6	6	12	6	10	40	80	28	66	5	2
AME350C	3/8, 1/2	132	18	98	90	5	90	10	150	80	28	8	7	7	14	7	12	50	95	34	80	5	2.3

Dimensions

AME450C/550C





Model	Port size	_	ь		_	F F G H Bracket related dimensions																	
Wodel	FUIT SIZE	A	-	C	ט			G	п	I	N	J	K	U	٧	L	М	W	0	Р	Ø	R	Т
AME450C	1/2, 3/4	151	20	105	106	3	106	10	36	172	90	31	10	9	9	18	9	15	55	111	50	88	3.2
AME550C	3/4, 1	187	24	130	122	3	122	15	44	206	100	33	10	9	9	18	9	15	65	126	60	102	3.2

HAA HAW

AT IDF IDU

IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD AMH

AME

AMF

ZFC

SF SFD

LLB

AD□

GD

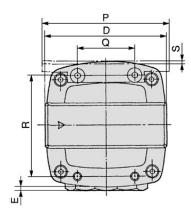
(mm)

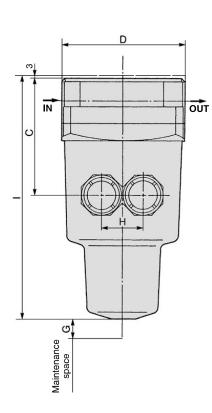


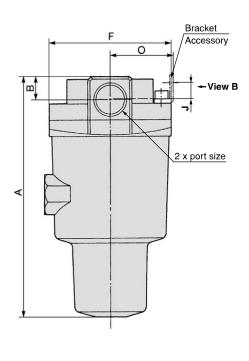
AME Series

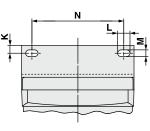
Dimensions

AME650/850









Drawing of view B

																				(mm)
Model	Port size	_	В	_	_	_	_		ш				Bra	cket re	lated d	imensi	ons			
Model	Fort Size	A	-		ט			G	п	ı	J	K	L	М	N	0	Р	Ö	R	S
AME650	1, 11/2	291	32	167	160	-	160	10	66	314	40	15	20	11	150	85	180	76	136	4.5
AME850	11/2, 2	403	42	235	220	_	220	10	96	406	30	15	24	13	180	120	220	110	184	6

Odor Removal Filter





Efficiently can remove odor in compressed air with an activated carbon element. Use this unit for applications sensitive to odors, such as for clean rooms.

Can remove odor and gas ingredients in compressed air.

Activated carbon element with large filtration area.

Easy replacement of elements.

⚠ Caution

Be sure to use the AME series

Modular connection is possible with AMF150C to 550C.

(For details, refer to page 266.)



AMF150C to 350C AMF450C/550C



AMF650/850

Symbol





Model

Model							
Model	AMF150C	AMF250C	AMF350C	AMF450C	AMF550C	AMF650	AMF850
Note) Rated flow (L/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 1/2	1 1/2, 2
Weight (kg)	0.3	0.48	0.8	1.3	2.0	4.2	10.5

Note) Max. flow capacity at 0.7 MPa.

Max. flow capacity varies depending on the operating pressure.

Refer to "Flow Rate Characteristics" (page 260) and "Maximum Flow Capacity Line" (page 259).

Specifications

-poemeanome	
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%)
Cleanliness at outlet	Less than 100 particles of 0.3 µm or larger per cubic foot [Less than 35 particles per 10 liters (ANR)] (The "AME" series is required on the inlet side.)
Oil mist density at outlet	Max. 0.004 mg/m³ (ANR) (≈ 0.0032 ppm) (The "AME" series is required on the inlet side.)
	Replace the element when you notice an odor coming from the outlet side.
Element replacement period	Even if the deodorization performance is normal, the replacement interval for the element is when the pressure drop reaches 0.1 MPa or after two years of operation, whichever comes first.

Accessory Part No.

Applicable model	AMF150C	AMF250C	AMF350C	AMF450C	AMF550C	AMF650	AMF850
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 the products.

Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

HAA HAW

AT

IDF IDU IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

АМН

AME

AMF

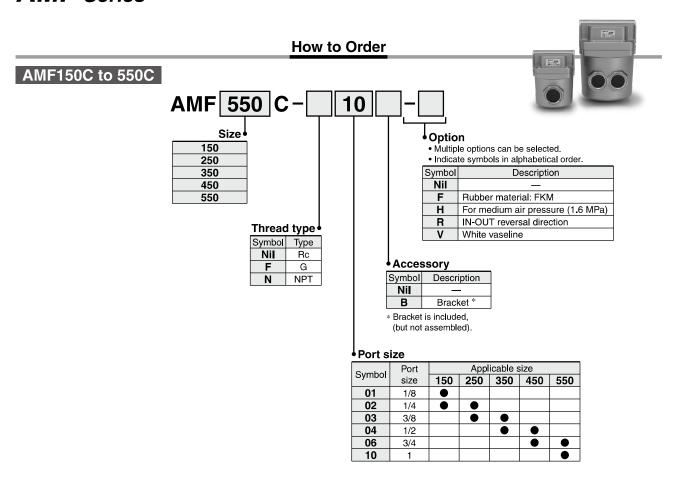
ZFC SF

SFD

LLB

AD□

AMF Series



Options

Symbol F: Rubber material: FKM

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

Symbol V: White vaseline

The body/housing is degreased, and the grease used for the parts requiring lubrication has been changed to white vaseline.

Symbol H: For medium air pressure (1.6 MPa)

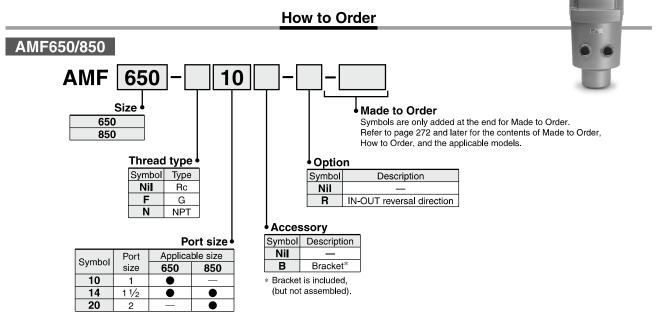
Can be used up to 1.6 MPa at maximum.

Symbol R: IN-OUT reversal direction

Flow direction: Right to left (Flow direction of the standard: Left to right.)



Odor Removal Filter AMF Series



Model Selection

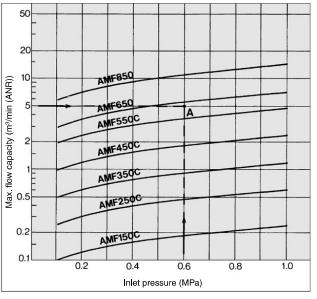
Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

Max. flow capacity: 5 m3/min (ANR)

- 1. Obtain the intersecting point A of inlet pressure and max, flow capacity in the graph.
- 2. The AMF650 is obtained when the max. flow capacity line is above the intersecting point A in the graph.

Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity 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 Flow Capacity Line



HAA HAW

AT

IDF IDU

IDF □FS

IDFA

IDFB

IDH

ID

IDG

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IDK

AMG

AFF

AM

AMD AMH

AME

AMF

ZFC

SF SFD

LLB

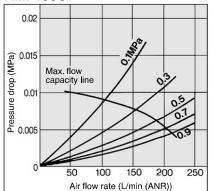
AD□

AMF Series

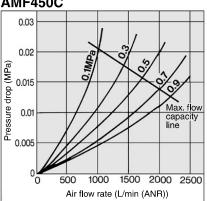
Flow Rate Characteristics (Representative values)/Select the model under the max. flow capacity line. (Element initial condition)

Note) Compressed air over max. flow line in the table below may not meet the specifications of the product.

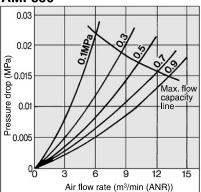
AMF150C



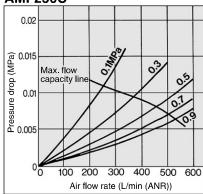
AMF450C



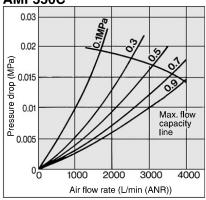
AMF850



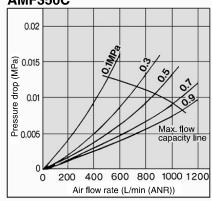
AMF250C



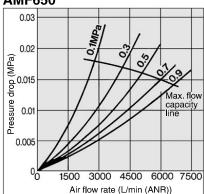
AMF550C



AMF350C

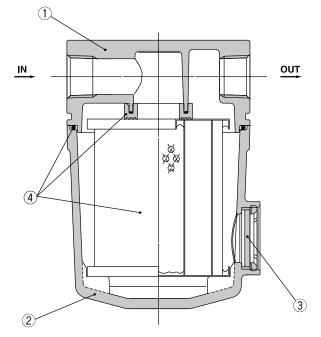


AMF650

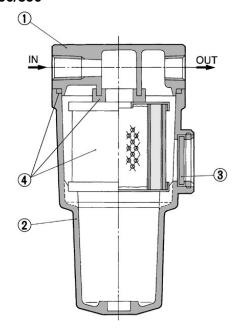


Construction

AMF150C to 550C



AMF650/850



Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Inner/outer surface coating
2	Housing (Case)	Aluminum alloy	Inner/outer surface coating
3	Sight glass	Tempered glass	_

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 262 to 264 for details.

Replacement Parts

Nla	Description	Motorial	Applicable				Model			
INO.	Description	Material	model	AMF150C	AMF250C	AMF350C	AMF450C	AMF550C	AMF650	AMF850
4	Element	Glass fiber,	Except option F	AMF-EL150	AMF-EL250	AMF-EL350	AMF-EL450	AMF-EL550	AMF-EL650	AMF-EL850
4	assembly	others	For option F	AMF-EL150-F	AMF-EL250-F	AMF-EL350-F	AMF-EL450-F	AMF-EL550-F	_	_

[•] Element assembly: With gasket (1 pc.) and O-ring (1 pc.)

HAA HAW

AT IDF IDU

IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AMD

АМН

AME

AMF

ZFC

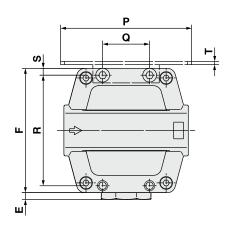
SF

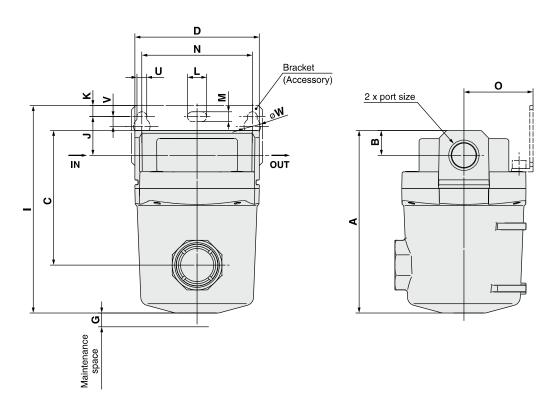
SFD LLB

AD□

Dimensions

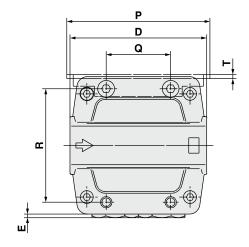
AMF150C to 350C

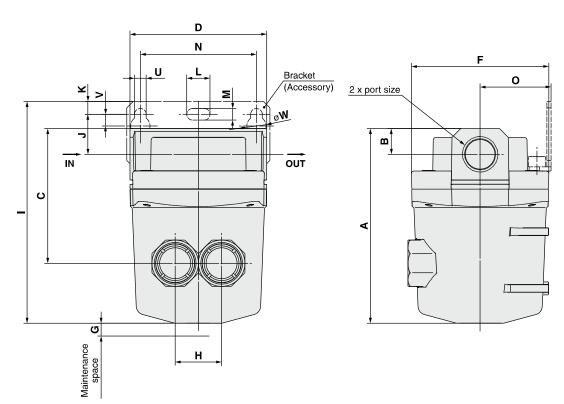




																								(mm)
Model Port size A B C D E F G Bracket related dimensions																								
IVIC	buei	FUILSIZE	A	-		ם	=		G	ı	N	J	K	U	V	L	М	W	0	Р	Q	R	S	Т
AMF	150C	1/8, 1/4	83	10	54	63	7.5	63	10	99	56	20	5	6	6	12	6	10	35	70	26	54	4.5	1.6
AMF	250C	1/4, 3/8	103	14	73	76	5	76	10	121	66	24	8	6	6	12	6	10	40	80	28	66	5	2
AME	350C	3/8, 1/2	132	18	98	90	5	90	10	150	80	28	8	7	7	14	7	12	50	95	34	80	5	2.3

AMF450C/550C





Model Port size A B C D E F G H						Bracket related dimensions																	
Wodel	FUIT SIZE	A	-	C	ט			G	п	I	N	J	K	U	٧	L	М	W	0	Р	Ø	R	Т
AMF450C	1/2, 3/4	151	20	105	106	3	106	10	36	172	90	31	10	9	9	18	9	15	55	111	50	88	3.2
AMF550C	3/4, 1	187	24	130	122	3	122	15	44	206	100	33	10	9	9	18	9	15	65	126	60	102	3.2

HAA HAW

AT

IDF IDU IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AMD

АМН

AME

AMF

ZFC

SF SFD

LLB

AD□

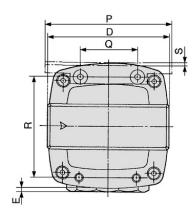
GD

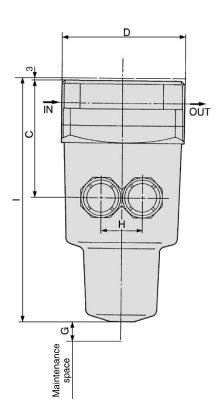
(mm)

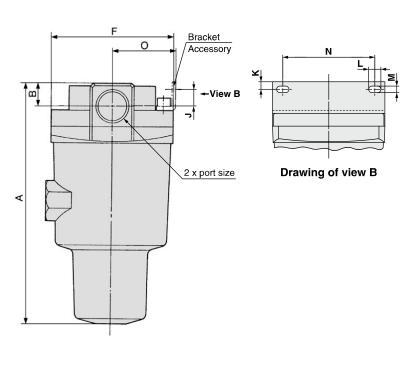
AMF Series

Dimensions

AMF650/850







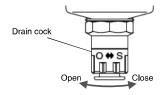
																				(mm)
Model Port size A B C D E F G H Bracket related dimensions																				
Model	FUIT SIZE	A			ט			G	П	I	J	K	L	M	N	0	Р	Ø	R	S
AMF650	1, 11/2	291	32	167	160	ı	160	10	66	314	40	15	20	11	150	85	180	76	136	4.5
AMF850	11/2, 2	403	42	235	220	_	220	10	96	406	30	15	24	13	180	120	220	110	184	6

Auto Drain

Operating State and Proper Use of Float Type Auto Drain

Auto drain	When pressure is not applied	When pressu	ıre is app l ied	Minimum operating pressure	
Auto diam	(After exhausting residual pressure)	Before drain accumulates	When drain accumulates	(Outlet pressure)	HAA HAW
	Drain discharged (Open)	Drain not discharged (Close)	Drain discharged (Open)		AT
		(51333)	(0,000)		IDF IDU
N.O.		 		0.1 MPa or more	IDF □FS
Normally open	Float			AM □150 to 850 AFF2 to 75	IDFA
	Piston	$\left[\begin{array}{c c} \downarrow & \downarrow \end{array}\right] \left[\begin{array}{c c} \uparrow & \downarrow \end{array}\right]$			IDFB
	Orifice				IDH
	Drain not discharged				ID
	(Close)				IDG
					IDK
N.C.				0.15 MPa or more AM□150 to 550	AMG
Normally closed	Float			AFF2 to 22	AFF
	Orifice				АМ
					AMD
					АМН

◆ For both N.O. and N.C., the drain can be discharged manually by turning the drain cock to the "O" position. (Except for medium air pressure, AFF75B, AM B50, and free standing type)



Compressor	Proper Use When pressure is not applied (After exhausting residual pressure)	Cold climates		Recommended auto drain	
0.75 kW or more	Drain not accumulated Do not want to accumulate drain generated at the inlet side when pressure is not applied.	Want to prevent troubles caused by freezing.	=	N.O. ^{Note)} Normally open	
Less than 0.75 kW	Drain accumulated	_	=	N.C. Normally closed	

Note) For N.O. (Normally open) type, the drain discharge passage is open when pressure is not applied. For this reason, the drain exhaust port is not closed completely in a compressor with a small supply amount (less than 0.75 kW) and the air will ceaselessly blow out.



AMH

AME

AMF

ZFC

SF

SFD

LLB

AD□

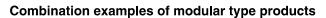
Optional Accessories

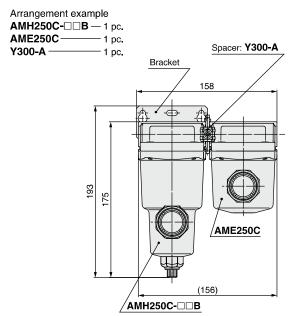
Spacer for Modular Connection

Use a spacer listed below when connecting modular type AFF2C to 22C, AM□150C to 550C. The spacer must be ordered separately. (Note: Spacer with bracket (Y200T-A to Y600T-A) cannot be used.)

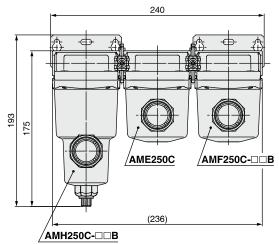
⚠ Caution

- Modular connection
- Mount the attached bracket on one side when connecting 2 sets.
- Mount the attached brackets on both sides when connecting 3 sets or
- As a guideline for the number of brackets, one bracket should be mounted for every 2 products.







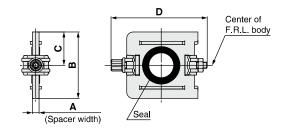


Spacer



Y200-A Y400-A

Model	Α	В	С	D	Model
Y200-A	3.2	31.2	15.6	44.9	AFF2C, AM□150C
Y300-A	4.2	43.4	21.7	57.9	AFF4C, AM□250C
Y400-A	5.2	53	26.5	68.5	AFF8C, AM□350C
Y500-A	5.2	57	28.5	75.6	AFF11C, AM□450C
Y600-A	6.2	67.6	33.8	92.5	AFF22C, AM□550C



Replacement Parts

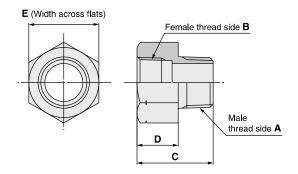
Description	Material			Part no.		
Description	Material	Y200-A	Y300-A	Y400-A	Y500-A	Y600-A
Seal	HNBR	Y220P-050S	Y320P-050S	Y420P-050S	Y520P-050S	Y620P-050S



Optional Accessory

CD

Piping Adapter



me		

Part no.

Thread type and port size

Male thread side **A** Female thread side **B**

R 3/8

NPT 3/8

	(mm)
Е	Material

30 15 22 Brass

HAA HAW

AT

IDF IDU

IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

SF

SFD

LLB

AD□

Bowl Assembly

AM-CA - /AME-CA



Bowl Assembly

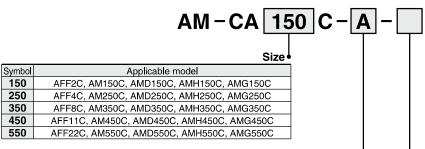
- Use only when replacing the bowl assembly, while the body is connected to the piping.
 - Example) Changing the drain exhaust specification from the drain cock type to the auto drain type.
 - The bowl has been damaged.

(Note: When changing the model due to replacement, the customer is responsible for controlling the model.)

How to Order Bowl Assembly

The "How to Order" the bowl assembly changes with the series and size.

- For AFF, AM, AMD, AMH, AMG series
 - AFF2C to 22C, AM150C to 550C, AMD150C to 550C, AMH150C to 550C, AMG150C to 550C
 - AFF37B, AM650, AMD650, AMH650, AMG650 ————— Based on How to Order ②.
 - AFF75B, AM850, AMD850, AMH850, AMG850 —————— Based on How to Order ③.
- For AME, AMF series
 - AME150C to 550C, AMF150C to 550C ————Based on How to Order ④.
 - AME650, AME850, AMF650, AMF850 —————Based on How to Order ⑤.
- ① For AFF2C to 22C, AM150C to 550C, AMD150C to 550C, AMH150C to 550C, AMG150C to 550C



Drain	exhaust •		Option Note 1)					
Symbol	Description	Drain port	Symbol	Description				
			Nil	_	0			
A	With drain cock	M5	F	Rubber material: FKM	Combinations of FH, FHV, FV			
_ ^	Willi dialii cock	IVIO	Н	For medium air pressure (1.6 MPa)	and HV available			
			V	White vaseline	and my available			
С	N.C. auto drain Note 2)	ø10 mm	Nil	_	Only one			
CN	* N.C. (Normally closed)	ø3/8 inch	F	Rubber material: FKM	can be			
CIV	Drain port is closed when pressure is not applied.	93/6 IIICH	V	White vaseline	selected.			
D	N.O. auto drain Note 2)	ø10 mm	Nil	<u> </u>	Onlyana			
		910111111	F	Rubber material: FKM	Only one can be			
DN	* N.O. (Normally open)	ø3/8 inch	Н	For medium air pressure (1.6 MPa)	selected.			
DIA	Drain port is open when pressure is not applied.	95/0 IIICH	V	White vaseline	oolootou.			
J		Bc1/4	Nil	_	Combinations of			
	With drain guide	1101/4	F	Rubber material: FKM	Combinations of FH, FHV, FV			
JF	9	G1/4	Н	H For medium air pressure (1.6 MPa)				
JN	* Without a valve function	NPT1/4	٧	White vaseline	and HV available			

Note 1) The options which can be combined differ by each drain exhaust port specification.

Select from the options indicated on the right side of the drain exhaust port specifications.

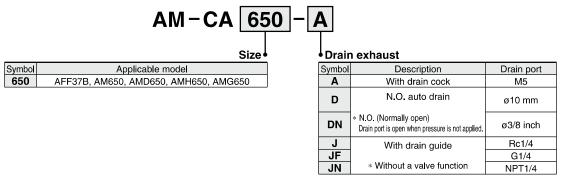
Note 2) Refer to page 265 for proper use of the auto drain.



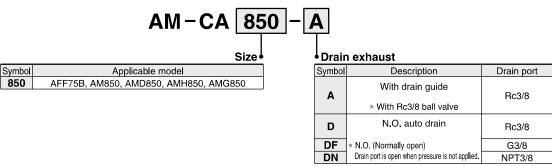
Bowl Assembly AM-CA AME-CA

How to Order Bowl Assembly

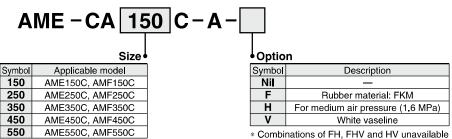
2 For AFF37B, AM650, AMD650, AMH650, AMG650



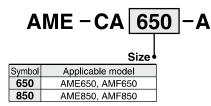
③ For AFF75B, AM850, AMD850, AMH850, AMG850



4 For AME150C to 550C, AMF150C-550C



⑤ For AME650, AME850, AMF650, AMF850



HAA HAW

AT IDF

IDU IDF FS

IDFA

IDFB

IDH

ID

IDG

IDK AMG

AFF

AM

AMD

AMH

AME

AMF ZFC

SF

SFD

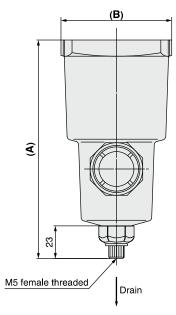
LLB

AD□

AM-CA□/AME-CA□

Dimensions: AFF, AM, AMD, AMH, AMG Series

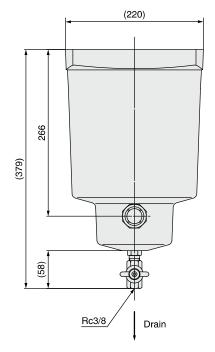
Applicable filter model: AFF2C to 22C, AFF37B, AM150C to 550C, AM650, AMD150C to 550C, AMD650, AMH150C to 550C, AMH650, AMG150C to 550C, AMG650



Note) The figure shows the drain cock specification.

			(mm)
AFF series	AM, AMD, AMG, AMH series	_	В
Size	Size	Α	
2C	150C	137	63
4C	250C	142	76
8C	350C	165	90
11C	450C	181	106
22C	550C	205	122
37B	650	248	160

Size: AFF75B, AM850, AMD850, AMH850, AMG850



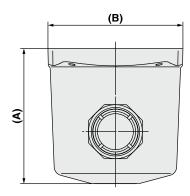
Note) The figure shows the drain cock specification.



Bowl Assembly AM-CA -/AME-CA

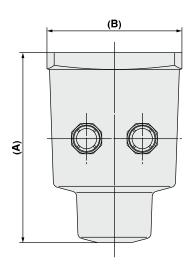
Dimensions: AME, AMF Series

■ AME150C to 550C, AMF150C to 550C



		(mm)
AME, AMF series	Α	В
Size	_ A	В
150	60	63
250	70	76
350	90	90
450	104	106
550	130	122

■ AME650, AME850, AMF650, AMF850



		(mm)	
AME, AMF series	Α	В	
Size	_ ^	В	
650	225	160	
850	319	220	

HAA HAW

AT

IDF IDU

IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AMD

AMH

AME

AMF

ZFC

SF

SFD

LLB AD

Made to Order Specifications Please contact SMC for detailed dimensions, specifications and lead times.



Made to Order

Description	Applicable model						Dogo		
Description	Symbol	AMG	AFF	AM	AMD	АМН	AME	AMF	Page
① With Differential Pressure Gauge	Х6	_	•	•	•	•	_	_	P.273
② With Differential Pressure Switch (With Indicator)		_	•	•	•	•	_	_	P.273
③ With IN-OUT Flange	X15	•	•	•	•	•	_	_	P.274
4 With Differential Pressure Gauge, IN-OUT Flange	X17	_	•	•	•	•	_	_	F.2/4
5 Auto Drain, Drain Piping Threaded Connection Type 6 White Vaseline Specifications		•	•	•	•	•	_	_	P.275
		•	•	•	•	•	•	•	P.275
② Main Line Filter for High Flow Rate with Nominal Filtration Rating of 0.3 μm	X13	_	•	_	_	_	_	_	P.276
® With By-pass Port	X360	•	•	•	•	•	•	•	P.276



Made to Order Specifications 1



Please contact SMC for detailed dimensions, specifications and lead times.

1 With Differential Pressure Gauge

The replacement period due to clogging of the element can be checked by the differential pressure gauge. This is a compact unit because the differential pressure gauge is attached to the upper portion of the filter body. Differential pressure gauge (Part number: GD40-2-01) and fittings for connection are included, (but not assembled).

Applicable Models

- AFF2C to 22C, 37B, 75B
- AM150C to 550C, 650, 850
- AMD150C to 550C, 650, 850
- AMH150C to 550C, 650, 850

Note) Not applicable to the AMG, AME and AMF series.

How to Order

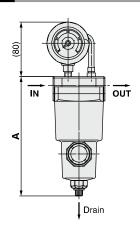
Standard model no.*	-X6
---------------------	-----

* Refer to How to Order of the standard specifications for the applicable models.

Example) AFF22C-06-X6

Note) Not applicable to option symbols $\mathsf{F},\,\mathsf{H},\,\mathsf{S},\,\mathsf{U},\,\mathsf{T}$ and $\mathsf{V}.$

Dimensions



Note) The figure shows the drain cock specification.

		(mm)
AFF series	AM, AMD, AMH series	Δ.
Size	Size	A
2C	150C	161
4C	250C	175
8C	350C	207
11C	450C	228
22C	550C	262
37B	650	314
75B	850	461

With Differential Pressure Switch (With Indicator) (125 VAC, 30 VDC)

The replacement period due to clogging of the element can be checked visually, and a built-in contact enables the output of an electrical signal. Differential pressure switch is included. (but not assembled).

* Please contact SMC if conformity to the EU directive is required.

Applicable Models

- AFF37B, 75B
- AM650, 850
- AMD650, 850
- AMH650, 850

Note) Not applicable to the AMG, AME and AMF series.

Specifications

Contacts	a contact (1 point)
Reed switch rating	Max. contact capacity 10 VA AC, 10 W DC

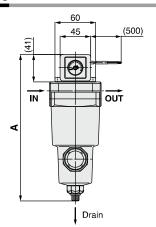
How to Order

Standard model no.* -X37

* Refer to How to Order of the standard specifications for the applicable models.

Example) AFF37B-10B-X37 Note) Not applicable to option symbol T.

Dimensions



Note) The figure shows the drain cock specification.

		(mm)		
AFF series	AM, AMD, AMH series	^		
Size	Size	_ ^		
37B	650	355		
75B	850	501		

HAA HAW

AT

IDU IDF □FS

IDFA

IDFB

IDH

ID

IDG

IDK AMG

AFF

 AM

AMD

AMH

AME AMF

ZFC

SF

SFD

AD□



Made to Order Specifications 2



Please contact SMC for detailed dimensions, specifications and lead times.

3 With IN-OUT Flange

Makes flange piping easier when filter ports on IN and OUT are flange connection. (Flange material: Carbon steel)

4 With Pressure Differential Gauge, IN-OUT Flange

The replacement period due to clogging of the element can be checked by the differential pressure gauge. Ports on IN and OUT are flange connection. (Flange material: Carbon steel)

Applicable Models

- AFF11C, 22C, 37B, 75B
- AM450C, 550C, 650, 850
- AMD450C, 550C, 650, 850
- AMH450C, 550C, 650, 850
- AMG450C, 550C, 650, 850

Note) Not applicable to the AME and AMF series.

How to Order

Standard model no.*



* Refer to How to Order of the standard specifications for the applicable models.

Example) AMG550C-10D-X15

Note) The model with bracket (Accessory symbol B) is not available. Not applicable to option symbols H and V.

How to Order

Applicable Models

• AFF11C, 22C, 37B, 75B

 AM450C, 550C, 650, 850 • AMD450C, 550C, 650, 850

• AMH450C, 550C, 650, 850

Note) Not applicable to the AME and AMF series.

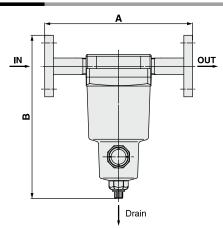
Standard model no.*

* Refer to How to Order of the standard specifications for the applicable models.

Example) AM450C-06D-X17

Note) The model with bracket (Accessory symbol B) is not available. Not applicable to option symbols F, H, S, U, T and V.

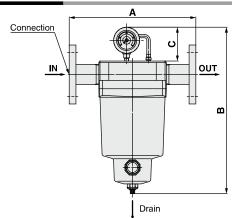
Dimensions



Note) The figure shows the drain cock specification.

		(mm)			
AFF series	AM, AMD, AMG, AMH series	Port size	JIS 10K FF	Α	В
Size	Size	symbol*	flange	A	Ь
11C	450C	04	15 (1/2B)	242±3	256
110	4500	06	20 (3/4B)	239±3	258
22C	550C	06	20 (3/4B)	255±3	288
220	5500	10	25 (1B)	259±4	301
37B	650	10	25 (1B)	297±4	345
3/6	630	14	40 (1 ½B)	298±4	352
75B	050	14	40 (1 ½B)	384±4	489
/30	850	20	50 (2B)	378+4	497

Dimensions



Note) The figure shows the drain cock specification. (n						
AFF series	AM, AMD, AMG, AMH series	Port size	JIS 10K FF	A	В	С
Size	Size	symbol*	flange	_ A	В	
11C	450C	04	15 (1/2B)	242±3	308	
110	4500	4500 06	20 (3/4B)	239±3	306	
22C	550C	06	20 (3/4B)	255±3	342	
220	550C	10	25 (1B)	259±4	342	80
37B	650	10	25 (1B)	297±4	394	00
3/6	650	14	40 (1 ½B)	298±4	394	
75B	050	14	40 (1 ½B)	384±4	E 4 4	
/36	850	20	50 (2B)	378±4	541	



Made to Order Specifications 3



Please contact SMC for detailed dimensions, specifications and lead times.

5 Auto Drain, Drain Piping Threaded Connection Type

Threaded connection for the piping of the auto drain exhaust port is possible.

6 White Vaseline Specifications

The grease applied to the O-ring and gasket has been changed to white vaseline.

Applicable Models

- AFF2C to 22C, 37B
- AM150C to 550C, 650
- AMD150C to 550C, 650
- AMG150C to 550C, 650
- AMH150C to 550C, 650

Note) Not applicable to the AME and AMF series.

How to Order

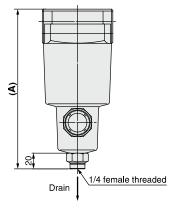
-X26 Standard model no.*

* Refer to How to Order of the standard specifications for the applicable models,

Example) AFF22C-10D-T-X26

Note) Only available for the auto drain specification C (N.C.) and D (N.O.). N.C. auto drain is not available for the AFF37B, AM650, AMD650, AMG650 and AMH650.

Dimensions



		(mm)
AFF series	AM, AMD, AMG, AMH series	Δ.
Size	Size	A
2C	150C	159
4C	250C	172
8C	350C	204
11C	450C	225
22C	550C	259
37B	650	311

Applicable Models

- AFF37B, 75B
- AM650, 850
- AMD650, 850
- AME650, 850
- AMF650, 850
- AMG650, 850
- AMH650, 850

How to Order

-X12 Standard model no.*

 \ast Refer to How to Order of the standard specifications for the applicable models.

Example) AM650-10-X12

HAA HAW

AT

IDF IDU

IDF |□FS

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

ΑM

AMD

AMH

AME

AMF

ZFC

SF

SFD

AD



Made to Order Specifications 4



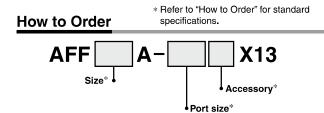
Please contact SMC for detailed dimensions, specifications and lead times.

Main Line Filter for High Flow Rate with Nominal Filtration Rating of 0.3 μm

This filter is for high flows with a nominal filtration rating (0.3 $\mu m)$ the same as the AM series mist separator. The specifications other than the nominal filtration rating are all equivalent to those of the AFF75A to 220A.

Applicable Models

AFF75A to 220A



8 With By-pass Port

Ports (Rc1/8) connected to the IN and OUT sides are provided in two locations. This specification can be used for applications which do not require flow rates compared to that of the main flow, which leads to reduction in piping labor and saves space.

Applicable Models

- AMG150C to 550C, 650, 850
- AFF2C to 22C, 37B, 75B
- AM150C to 550C, 650, 850
- AMD150C to 550C, 650, 850
- AMH150C to 550C, 650, 850
- AME150C to 550C, 650, 850
- AMF150C to 550C, 650, 850

How to Order

Standard model no.*

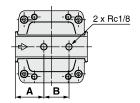
-X360

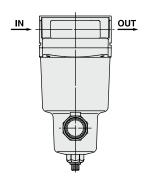
* Refer to How to Order of the standard specifications for the applicable models. However, thread types F (G thread) and N (NPT) are not supported.

Example) AMD350C-03D-X360

Note) Not applicable to option symbols S, T and U.

Dimensions





(mm

				(111111)
AFF series	AM, AM* series	Port size	Α	В
Size	Size	Poit size	A	В
2C	150C	1/8, 1/4	17	31
4C	4C 250C 1/4,		22	34
8C	350C	3/8, 1/2	27	38
11C	450C	1/2, 3/4	42	37
22C	550C	3/4, 1	50	41
37B	650	1, 1 1/2	66	52
75B	850	1 1/2, 2	90	75





Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Design

⚠ Caution

 Do not use under conditions where the difference between the inlet pressure and the outlet pressure exceeds 0.1 MPa.

Continuing to use the product under such conditions will not only cause a decline in cleanliness but may also lead to element damage.

- Design the layout so that the product is installed in a location where it won't be subject to pulsations exceeding 0.1 MPa or changes in pressure.
- 3. Be careful of dust generation by the pneumatic equipment mounted on the outlet side.

When installing pneumatic equipment on the outlet side of the filter, dust particles may come off from outlet equipment, which will lower the cleanliness of compressed air. Consider this impact upon the cleanliness of compressed air when installing pneumatic equipment on the outlet side.

4. About when to use N.C. auto drain and N.O. auto drain.

When using the normally open (N.O.) auto drain, air may ceaselessly blow out of the drain discharge area when an air compressor with a small air discharge volume is used since the valve does not close unless the air pressure is 0.1 MPa or higher.

Refer to page 265 for proper use of the auto drain.

5. Use a tubing with proper size and length for drain piping of auto drain.

When using the AFF2C to 22C, 37B, AM□150C to 550C, 650 with auto drain:

Normally closed (N.C.) Use the included One-touch fitting, Normally open (N.O.) and keep the whole length within 5 m.

When using the AFF75B and AM□850 with auto drain:

Normally open (N.O.): Use tubing I.D. 9 mm or more and keep the whole length within 2.8 m.

6. Provide a design that prevents back pressure and back flow.

Back pressure or back flow may damage an element.

7. The following models are applicable to the Class-2 Pressure Vessel as stipulated in the order for enforcement of the Industrial Safety and Health Act.

Main Line Filter AFF220A Micro Mist Separator AMD9□, AMD10□

 The individual inspection certificate (in Japanese) of the Class-2 Pressure Vessel will be sent 2 to 4 weeks after the product is delivered. Keep this certificate in a safe place, and be careful not to misplace it.

- The individual inspection certificate can only be reissued within one year. If one year or more has passed, the inspection must be performed again. Please contact SMC for reissuance and re-inspection.
- Please contact SMC regarding English certificates.
 In the case of exporting, this does not guarantee that the English certificate and the product itself will be accepted by the export destination country, and the English certificate may not be issued depending on the export destination country.
- When exporting this product, it is necessary for the customer to pre-confirm what standard the inspection is based on, and what certificate is required by the export destination country.

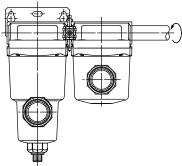
⚠ Warning

 Hold the female thread side and tighten to the recommended torque when screwing in the piping material.

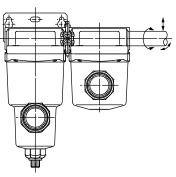
Insufficient tightening torque may cause loosening or defective sealing. Over-tightening torque may damage the thread etc. If it is tightened without holding the female thread side, excessive force will be directly applied to the piping bracket resulting in a product failure.

Recommended Torque Unit: N									
Connection thread	1/8	1/4	3/8	1/2	3/4	1	11/2	2	
Torque	7 to 9	12 to 14	22 to 24	28 to 30	28 to 30	36 to 38	48 to 50	48 to 50	

 \ast After tightening manually, tighten additionally by about 1/6 turn with a tightening tool.



Do not apply torsional moment or bending moment (except the product's own weight) to the bracket. It may damage the bracket. Support external piping separately.



3. Inflexible piping such as steel piping tends to be affected by spread of excessive moment load or vibration from the piping side. Lay flexible tubing between the steel pipe and the product to prevent such effects.

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IDFA

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AMG

AFF

AM

AMD AMH

AME

AMF

ZFC

SF SFD

LLB

AD□





Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Selection

⚠ Caution

1. About the system composition of purifying compressed air

Compressed air generally contains particulate contaminants as listed below, though there are some variations due to the compressor type and specifications. Determine the system configuration according to the desired cleanliness of compressed air and application, while referring to the "Air Preparation Equipment Selection Guide" (pages 2 and 3).

[Particulate contaminants in compressed air]

- Water (Water droplets, water vapor)
- Dust, chemical substances, etc. sucked from ambient air
- Degraded oil content from compressor (Including degraded oil)
- Solid foreign matter such as rust inside piping and oil

2. Select according to the maximum flow capacity.

When compressed air is used for air blow, etc., find the maximum air consumption before selecting the size. (If compressed air exceeding the maximum flow rate is supplied, it may cause deterioration of the cleanliness of the compressed air, the outflow of oil mist on the outlet side, and also cause element damage.)

Mounting

⚠ Caution

1. About the mounting orientation of the products

Make sure to install this product on horizontal piping. If it is installed diagonally, laterally, or upside down, the drain separated by the element will splash to the outlet side.

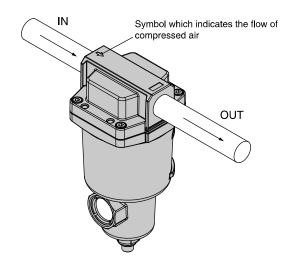
Piping

⚠ Caution

1. Connect it with IN and OUT ports in proper location. It does not work with the connection reversed.

In the case of the AFF2C to 22C, 37B, 75B, AM \Box 150C to $\overline{550C,\,650,\,850}$

Verify the direction of the flow of the compressed air and the mark that indicates the inlet of the product before connecting. It cannot be used if connected in the opposite direction.



In the case of free standing type

INLET and OUTLET of compressed air is labeled on the side of flange. Be sure to connect correctly.

2. Use an air blower to flush the piping before connecting the piping.

Use an air blower to thoroughly flush the piping, or wash the piping to remove any cutting chips, cutting oil, or debris from inside the piping before connecting them.

3. Winding of sealant tape

When screwing in the pipes or fittings, make sure to prevent cutting chips or the sealant material on the threaded portion of the pipe from entering the piping. If sealant tape is to be used, leave about 1.5 to 2 ridges of threads uncovered.

4. Modular connection

Mount the attached bracket on one side when connecting 2 sets. Mount the attached brackets on both sides when connecting 3 sets or more. As a guideline for the number of brackets, one bracket should be mounted for every 2 products





Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation **Equipment Precautions.**

Air Supply

⚠ Caution

1. This product is not applicable to gases other than compressed air.

This product is not applicable to gases other than compressed air (example: oxygen, hydrogen, flammable gas, mixed gas).

2. Do not use compressed air that contains chemicals, organic solvents, salt, or corrosive gases.

Do not use compressed gas containing chemicals, organic solvents, salt or corrosive gas. This can cause rust, damage to rubber and resin parts, or malfunction.

3. Operate within the specified operating pressure

Damage, failure, or malfunction may occur if this product is operated above the maximum operating pressure. If this product is used below the minimum operating pressure, increase in the air-flow resistance due to clogging will have such influence that the desired flow rate cannot be obtained. If this product is used under a low pressure such as for a blower, conduct sufficient tests by users to confirm the specifications and performances.

Operating Environment

⚠ Caution

- 1. Do not use in the following environments, as this can cause failure.
 - 1) In locations having corrosive gases, organic solvents, and chemical solutions, or in locations where these elements are likely to adhere to the equipment.
 - 2) In locations where salt water, water, or water vapor could come in contact with the equipment.
 - 3) In locations that is exposed to shocks and vibrations.
- 2. Be careful about the contamination of the workpieces due to entrainment of the ambient air.

If compressed air is used for air blow, compressed air blowing out from the blow nozzle may entrain foreign matter (solid particles and liquid particles) floating in the ambient air, blowing it against the workpieces and causing adhesion. Therefore, sufficient precautions must be taken about the ambient environment.

Maintenance

.⚠Caution

1. Replace the element immediately when the time for its replacement has arrived. If the element is used continuously without replacing, not only will foreign matter flow to the outlet side, but the element IDU may also be damaged.

To replace the element, replace the O-ring and the gasket, too. For the replacement procedure, refer to the operating manual. (For element dimensions, refer to page 280.)

<Element replacement>

a. In the case of the AFF2C to 22C, 37B, 75B, AM□150C to 550C, 650, 850

The replacement interval for the element is when the pressure drop reaches 0.1 MPa or after two years of operation, whichever comes first. A pressure drop can be verified with the element service indicator (-T) or with differential pressure gauge (Made to Order).

b. In the case of free standing type

The replacement interval for the element is when the pressure drop reaches 0.1 MPa or after one year of operation, whichever comes first. Confirm the pressure drop with a pressure gauge. (With pressure gauge: -G)

c. In the case of the AME

Regardless of the time for its replacement indicated in "a" above, replace the element when a red color spot occurred on the surface.

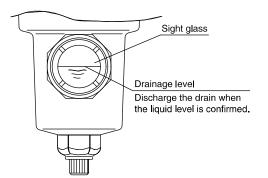
d. In the case of the AMF

Regardless of the replacement time indicated in "a" or "b," replace the element when you notice an odor coming from the

2. Be sure to exhaust the drain accumulated in the filter container.

Failure to discharge the drain will allow the accumulated drain to flow over to the outlet side.

When using the AFF2C to 22C, 37B, 75B, AM□150C to 550C, 650, 850 with drain cock, drain guide or ball valve, Discharge the drain when the liquid level of the drain is confirmed in the sight glass. If the drain is not discharged properly, it will flow over to the outlet side.



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Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Maintenance

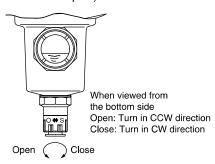
⚠ Caution

3. In the case of a type with auto drain

- The auto drain operates when the drain accumulates, and discharges the drain.
- When using the AFF2C to 22C, 37B, AM□150C to 550C, 650 with auto drain, the drain is automatically discharged with the knob tightened to the "S" side. Manual drain discharge, however, is also possible.

<Manual operation>

A manual knob attached to the auto drain end is tightened to the "S" side in normal operation. The drain can be discharged by loosening it to the "O" side. (Be careful, however, if pressure remains inside the filter when the drain is discharged, the drain will blow out from the drain port.)

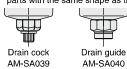


4. The drain exhaust parts replacement method and necessary parts are different depending on when it was manufactured.

December	Necessary parts			
Descrip- tion	Manufactured Jan. 2010 or before [Manufacturing lot No. up to oo]	Manufactured Feb. 2010 onwards [Manufacturing lot No. oP to onwards] Note 2)	Applicable size	
Drain cock	Non-replaceable	AM-SA039		
Drain guide	Non-replaceable	Thread type Rc: AM-SA040 Thread type G: AM-SA040-F Thread type NPT: AM-SA040-N	2C to 22C 150C to 550C 650 37B	
N.O. auto drain	Thread type Rc, G: AD43PA-D Thread type NPT: NAD43PA-D		3/6	
N.C. auto drain	Thread type Rc, G: AD53PA-D Thread type NPT: NAD53PA-D		2C to 22C 150C to 550C	
Ball valve set	AM-SA004			
N.O.auto drain Note 1)	Thread type Rc: AD34PA-D Thread type G: EAD34PA-D Thread type NPT: NAD34PA-D		75B, 850	

Note 1) Jig (AM-SA005) for replacing auto drain is necessary for the 75B or 850.

Note 2) When replacing parts with a production lot no. oP or after, order the parts with the same shape as the following figures.



5. The drain exhaust parts are different according to option or thread.

Applicable models: AFF2C to 22C, 37B, AM, AMD, AMH, AMG150C to 550C, 650

Drain exhaust	Option	Thread type		
specifications		Rc	G	NPT
	Except F, V	AM-SA039		
Drain cock	F	AM-SA039-1		
Diaili Cock	V	AM-SA039-2		
	F۷	AM-SA039-3		
	Except F, V	AM-SA040	AM-SA040-F	AM-SA040-N
Droin guido	F	AM-SA040-1	AM-SA040-F-1	AM-SA040-N-1
Drain guide	V	AM-SA040-2	AM-SA040-F-2	AM-SA040-N-2
	FV	AM-SA040-3	AM-SA040-F-3	AM-SA040-N-3
N.C.	Except F, V	AD53PA-D		NAD53PA-D
auto drain	F	AD53PA-D-X155		NAD53PA-D-X155
auto urairi	V	AD53PA-D-X113		NAD53PA-D-X113
	Except F, H, V	AD43PA-D		NAD43PA-D
N.O.	F	AD43PA-D-X155		NAD43PA-D-X155
auto drain	V	AD43PA-D-X113		NAD43PA-D-X113
	H Note)	_	_	_

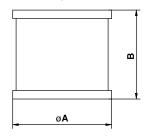
Note) For the option H, the auto drain cannot be replaced.

Others

1. Element interchange

Following is the element dimensions for the AFF and $\mbox{AM}\square$ series:

Elements of the same body size have the same dimensions.



Element Dimensions

Model	Element dimensions (Reference value)	
	øΑ	В
AFF2C, AM□150C	49	42
AFF4C, AM□250C	58	52
AFF8C, AM□350C	70	78
AFF11C, AM□450C	82	88
AFF22C, AM□550C	96	118
AFF37B, AM□650	122	144
AFF75B, AM□850	142	223

2. About oil-free products

The AFF and AM□ series includes parts (such as resin parts, rubber parts, and elements) that does not allow degreasing wash. Therefore, oil-free products with all parts degreasing washed is not available.

3. Degreasing wash

Certain parts such as the body and housing can be degreased. Please contact SMC for further details after confirming the specifications.

(available as Option or Made to Order)





Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Others

⚠ Caution

4. Change of oil

On the AFF and AM series, no oil such as grease is applied to parts exposed to compressed air. However, for certain specifications, there are some parts to which oil is applied. It is possible to change the type of applied oil (as Option or Made to Order).

5. Internal volume of filter container

Following is the volume of filter containers of the AFF and AM series (when the element is removed).

Volume Inside Filter

TOTALLIO ILICIAO I IIICI	
Model	Volume inside filter (Reference value) (cm³)
AFF2C, AM150C, AMD150C AMG150C, AMH150C	250
AFF4C, AM□250C, AMD250C AMG250C, AMH250C	350
AFF8C, AM□350C, AMD350C AMG350C, AMH350C	600
AFF11C, AM□450C, AMD450C AMG450C, AMH450C	1000
AFF22C, AM□550C, AMD550C AMG550C, AMH550C	1500
AFF37B, AM□650, AMD650 AMG650, AMH650	3000
AFF75B, AM□850, AMD850 AMG850, AMH850	9000

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IDF □FS

IDFA

IDFB

IDH

ID

IDG

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AMG

AFF

 AM

AMD

 AMH

AME

AMF

ZFC

SF

SFD

LLB

AD□