Compressed Air Cleaning Filter Series

AM AFF Series

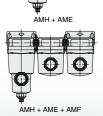
For Water Droplet, Solid/Oil Separation and Deodorization



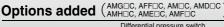
Note) Spacer with bracket cannot be mounted.
Use the attached bracket.

Ontions added (AMGIC, AFFIC, AMIC, AMDIC





* The C type is only suitable for modular connection.







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

HAA HAW

IDF

IDF □FS

IDFA

IDH

ID IDG

IDK

AMG AFF

AM

AMD

AMH

AMF

ZFC SF

SFD

AD

GD

203 ®

AM□/AFF Series

Water droplet separation

Water Separator

Water droplet removal ratio: 99%





AMG150C to 550C

AMG650/850

Large dust particle filtration, Oil droplet separation

Main Line Filter

Nominal filtration rating: 3 µm [Filtration efficiency:





AFF2C to 22C

AFF75A to 220A

AFF37B/75B Dustilliation, Oll 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

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

SMC

Model		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			
	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		
AFF	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

Model

Rated flow

L/min (ANR)

Port size

Note

HAA

HAW

AT

IDF

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IDF

□FS IDFA IDFB IDH ID

IDG

IDK

AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

SF

SFD

LLB $\mathsf{AD}\square$ GD

Dustfiltration, Oil mist separation

Micro Mist Separator with Pre-filter

Built-in 0.3 um 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%]



AMH150C to 550C AMH650/850

Dustifilization, Oil misted sorption

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



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]







AME650/850

	150C	200	1/8, 1/4	
	250C	500	1/4, 3/8	
	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 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	5
AME	450C	2,000	1/2, 3/4	Piping support type
	550C	3,700	3/4, 1	турс
	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	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	

205 B

Compressed Air Cleaning Filter Series

AM□/AFF Series

		Series	Water removal rate	Nominal filtration rating	Oil mist density at outlet	Smell	Page
=		¬ —				_	
Water Droplet 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
5	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
Solid/Oil Separation	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
S	Micro Mist Separator with Pre-filter Incorporates pre-filter (equivalent to the AM series) into micro mist separator.	-filter e AM 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
Deodorization	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
C	Operating State and Proper Use	of Auto Drain					P.265
C	Optional Accessories (Spacer for	Modular Connect	ion, Piping	Adapter)			P.266
E	Sowl Assembly						P.268
	• Rubi	per material: FKM	• IN-O	UT reversal direction	on • White vase	line*	Refer to
c	• With	nedium air pressur differential pressur VAC, 30 VDC)	re • Drair	n guide 1/4 female t	threaded • With eleme		"How to Order" of respectiv models.
App	licable only to the AFF37B, 75B, AM□6	50 and 850 by Made to	Order.				
	Mana	differential pressuage the replacement ogged element.		monitoring T	uto drain, drain piping threade hreaded connection for th rain exhaust port		
ı	(with The c the e	differential pressu- indicator)* (X37) differential pressure lement replacement lly and with an elec-	used as the period, can	e guide for • M n be checked	Vhite vaseline specificat Ising white vaseline for lub Iain line filter for high flo ominal filtration rating o	oricant. ow rate with of 0.3 µm (X13)	P.272
	• With	Ily and with an elect IN-OUT flange (X1 pe piping connection	5)	ra	his filter is for high flows wating the same as the AM solith by-pass port (X360)		
	• With	differential pressure	gauge, IN-Ol		orts connected to the IN and C	OUT sides are provided	

* Applicable only to the AFF37B, 75B, AM□650 and 850.

Specific Product Precautions

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

The replacement period due to clogging of the

element can be checked by the differential

pressure gauge. Flange piping connection

P.277

in two locations. This specification can be used for

to reduction in piping labor and saves space.

applications which do not require flow rates, which leads

P.376

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.

model

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
- ** Water removal rate (%) = Removed water (Water droplet) (g) Inflowed water (Water droplet) (q)

Modular connection is possible with AMG150C to 550C. (For details, refer to page 266.)



AMG150C to 550C

AMG650/850



(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

opeomeaneme	
Fluid	Compressed air
Max. operating pressure	1.0 MPa
Min. operating pressure*	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5 to 60°C
Water removal rate	99%
Element replacement period	2 years or when pressure drop reached 0.1 MPa

^{*} With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)

ØSMC

Accessory Part No.

Applicable model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850
Bracket assembly	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57
(with 2 mounting screws)							

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.

HAW

AT IDF IDU IDF

□FS IDFA

IDFB

IDH ID

IDG

IDK

AMG AFF

AM

AMD

AMH

AME

AMF

ZFC

SF SFD

LLB AD 🗆

AMG Series

How to Order AMG150C to 550C AMG 550 C 10 Made to Order 150 Symbols are only added at the end for Made to Order. Refer to page 272 and later for the contents of Made to Order, 250 How to Order, and the applicable models. 350 450 550 Option *3 Multiple options can be selected. Refer to the table below for the available combinations. Thread type Indicate symbols in alphabetical order. Symbol Type Symbol Description Nil Rc Nil G F Rubber material: FKM N NPT For medium air pressure (1.6 MPa) Drain guide 1/4 female threaded *5 IN-OUT reversal direction R Port size White vaseline Port Applicable size *5 Without a valve function Symbol size 150 250 350 450 550 01 1/8 02 1/4 Auto drain *2 *3 03 3/8 Symbol Description 04 1/2 • Nil Without auto drain (With drain cock *4) 06 3/4 N.C. (Normally closed) Drain port is closed when pressure is not applied. 10 1 D N.O. (Normally open) Drain port is open when pressure is not applied.

can be selected.)

specifications and options.

Accessory

Symbol	Description
Nil	_
В	Bracket *1

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

Auto Drain Specifications/Option Combinations

*3 Refer to the following table for the available combinations of the auto drain

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

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

*2 Refer to page 265 for proper use of the auto drain. (Only one auto drain specification

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

	F	Н	R	٧
Nil	0		0	0
F		•	0	•
Н	▼	/		•
R	0			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

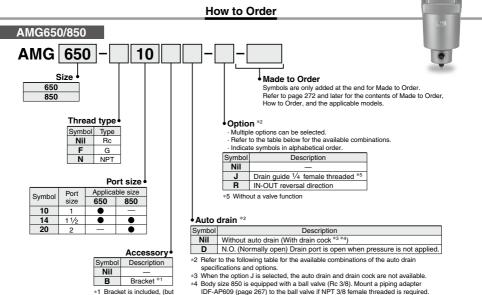
The body/housing is degreased, and the grease used for the parts requiring lubrication has been changed to white vaseline.

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

1/4 female threaded

Pipe threaded connection for the drain exhaust port

Water Separator AMG Series

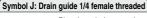


Auto Drain Specifications/Option (Co	m	bi	na	tions

: Available : Not available

Auto Brain opcom	ate Brain epecineations, epiten combinations					DIC	ot available	
Auto drain angoifi	oations/Ontion		Auto drain specifications	Op	tion	Applicable model		
Auto drain specifications/Option			D	J	R	AMG650	AMG850	
Auto drain specifications	uto drain specifications N.O. auto drain D				0	0	0	
	Drain guide 1/4	J			0	0		
Option	IN-OUT reversal direction	R	0	0		0	0	

Options



not assembled)



Symbol R: IN-OUT reversal direction

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

HAA HAW

AT

IDF IDU

IDFA

IDFB IDH

ID

IDG

IDK

AMG AFF

AM

AMD AMH

AME

AMF ZFC

SF

SFD

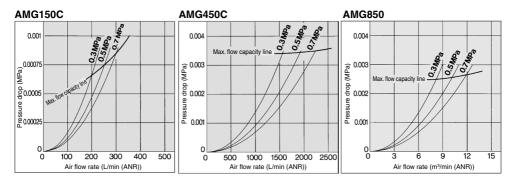
LLB

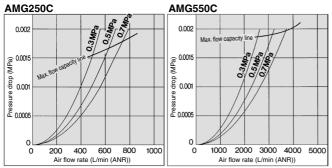
AD□

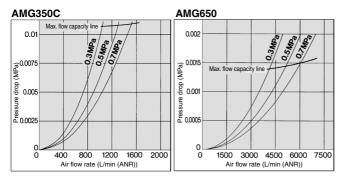
AMG Series

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.

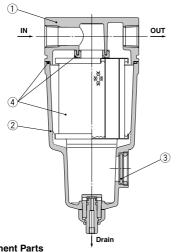






Construction

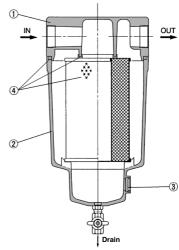
AMG150C to 550C, AMG650



Component Parts

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

AMG850



Note) The figure shows the drain cock specification.

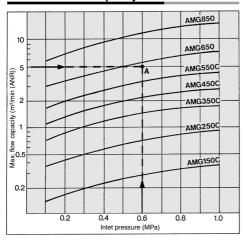
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 212 to 214 for details.

Replacement Parts

No.	Decerintian		Applicable				Model				
INO.	o. Description	material	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)

- 1. Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
- 2. 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.

HAA HAW AT

IDF İĎŪ IDF

IDFA IDFB

IDH ID

IDG **IDK**

AMG AFF

AM AMD

AMH

AME AMF

ZFC SF

SFD

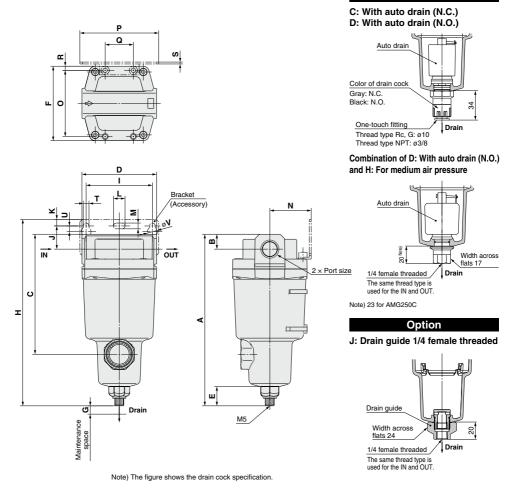
LLB

 $\mathsf{AD}\square$

AMG Series

Dimensions

AMG150C to 550C



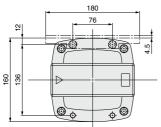
Auto drain

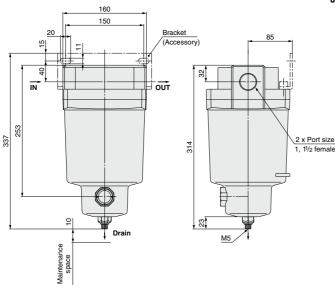
																							(mm)
Model	Dout sine		_	_	_	_	F	_						Bracl	ket re	lated	dime	nsior	ıs				
Model	Port size	Α	В		ט	E	_	G	Н	ı	J	K	Т	U	L	M	٧	N	0	Р	Q	R	S
AMG150C	1/8, 1/4	161	10	99	63	23	63	10	176	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6
AMG250C	1/4, 3/8	175	14	113	76	23	76	10	193	66	24	8	6	6	12	6	10	40	66	80	28	5	2
AMG350C	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	9	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

Water Separator AMG Series

Dimensions

AMG650

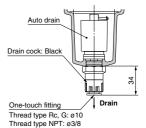




Note) The figure shows the drain cock specification.

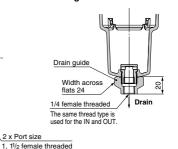
Auto drain

D: With auto drain (N.O.)



Option

J: Drain guide 1/4 female threaded



IDFA IDFB

□FS

HAA HAW

AT

IDF IDU IDF

IDH

ID

IDG IDK

AMG AFF

AM AMD

AMH

AME AMF

ZFC SF

SFD LLB

AD□

AMG Series

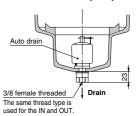
Dimensions

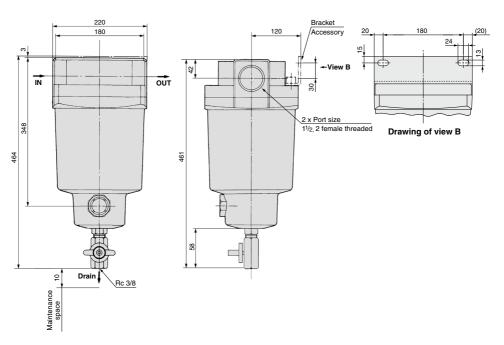
AMG850

220 110 0

Auto drain

D: With auto drain (N.O.)





Note) The figure shows the drain cock specification.

Main Line Filter **AFF Series**

RoHS

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											
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	11/2, 2			100(4B) FF flang	
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

		· = •			_,			. 1
Applicable model	AFF2C	AFF4C	AFF8C	AFF11C	AFF22C	AFF37B	AFF75B	i
Bracket assembly (with 2 mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57	إ

Accessory Part No./For AFF75A to 220A

Applicable model	AFF75A	AFF125A	AFF150A	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)	each) 50(2B)JIS 10K FF flange 80(3B)JIS 10K FF flange 100(4B)JIS 10K FF flange		0K FF flange				
Anchor bolt (3 pcs. each)	AI-2S						

Model Selection

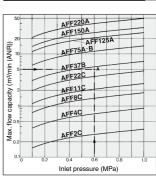
Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

Max. flow capacity: 5 m³/min (ANR)

- Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
- 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



AT

HAW

IDF IDU IDF □FS

IDFA IDFB

IDH

ID IDG

IDK

AMG

AM

AMD

AMH

AME

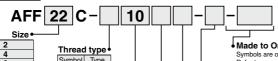
ZFC SF

SFD LLB

AD 🗆

How to Order

AFF2C to 22C





Port size

Cumbal	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	_
В	Bracket *1

*1 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		0		Note		0
F	0		•	0				•
Н	Δ	▼		Δ				▼
R	0	0	Δ			Note		0
S								
U	Note			Note				
Т								0
V	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.

· IIIuluai	te 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
Т	With element service indicator
٧	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 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

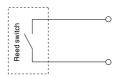
Symbol S: With differential pressure switch (with indicator)



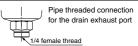
Clogging of the element can be observed visually or with an electrical signal.

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



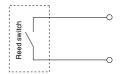
Symbol U: With differential pressure switch (with indicator)



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

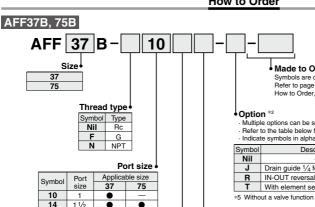
The rated contact voltage is different

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



Main Line Filter AFF Series





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

Symbol

Nil

Accessory

Description



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.

- · 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

Auto 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.

Auto Drain Specifications/Option Combinations

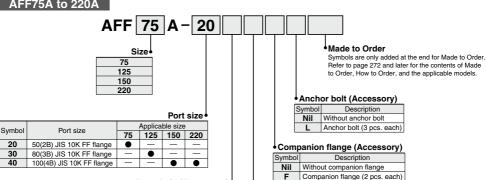
: Available : Not available В

Auto duoin	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	0
	With element service indicator	Т	0	0	0		0	0

AFF75A to 220A

20

2



Auto drain (Accessory)

Symbol	Description
Nil	Without auto drain
D	With metal case (2 pcs. each)
Р	With resin case (2 pcs. each)

Pressure gauge (Accessory)

Symbol	Description
Nil	Without pressure gauge
G	Pressure gauge (2 pcs_each)

AT IDF

HAA

HAW

İĎŪ IDF

IDFA

IDFB IDH

ID

IDG

IDK

AMG AFF

AMD

AMH

AME AMF

ZFC

SF

SFD

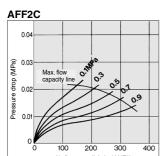
LLB

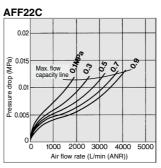
 $\mathsf{AD}\square$

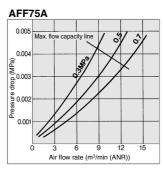
AFF Series

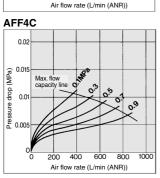
Flow Rate Characteristics (Representative values)/Select the model under the max. flow capacity line. (Element oil saturation)

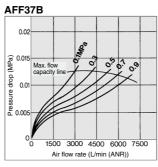
Note) Compressed air over max. flow capacity line in the table below may not meet the specifications of the product.

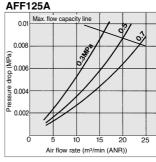


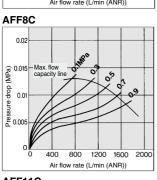


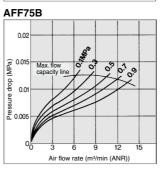


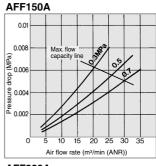


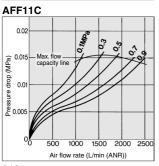


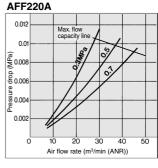






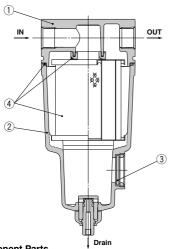






Construction

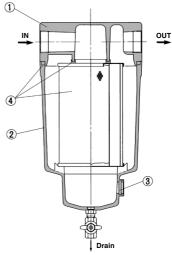
AFF2C to 22C, AFF37B



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 details

Replacement Parts

AFF75A to 220A

uch	nacemen	t Faits												
Nia	Description	Material	Applicable model		Model									
No.				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	_	_				

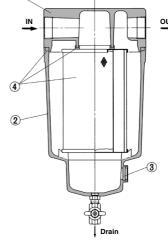
- Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- Refer to page 280 for replacement of auto drain.

ompopost Borto

CUI	iiponeni rai is		
No.	Description	Material	Note
1	Case	Carbon steel	
2	Cover	Carbon steel	

Replacement Parts

			٥.		Mo	del	
NO.	Description	Material	Qty.	AFF75A	AFF125A	AFF150A	AFF220A
3	Element	_	1	EC700)-003N	EC800-003N	EC900-003N
4	Seal	NBR	1	AL-	33S	AL-34S	AL-35S



(OUT side) Gauge port **(3**) Drain Gauge port (IN side)

Drain

OUT

HAA HAW AT

IDF IDU IDF

IDFA IDFB

IDH ID

IDG IDK

AMG

AFF

AM AMD

AMH

AME AMF

ZFC

SF

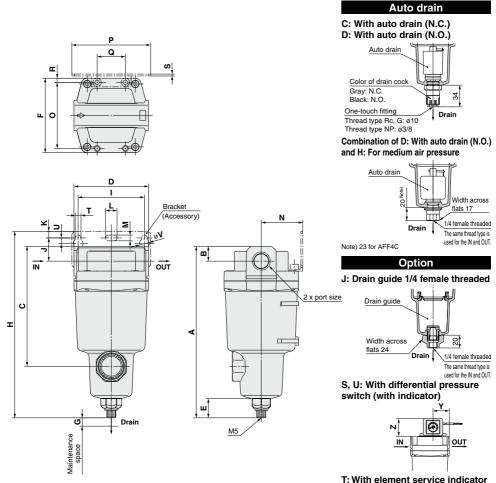
SFD LLB

AD□

AFF Series

Dimensions

AFF2C to 22C



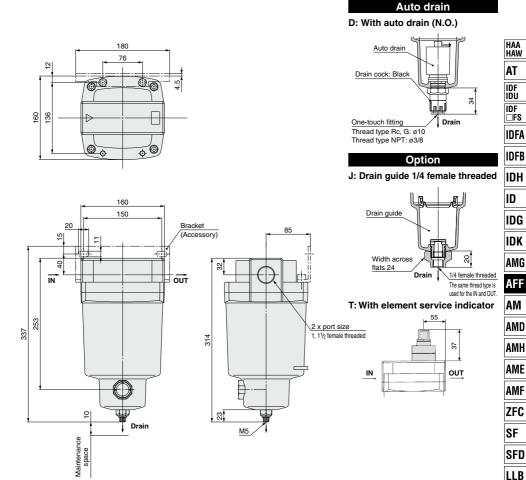
Note) The figure shows the drain cock specification.

₩.	
×	τ
INOUT	-
	(mm)

Model	Port size	A	В	С	D	E	F	G					В	rack	et re	elate	ed di	men	sions					Eler sen indicato dimer	vice r related	pres switch dimer	sure related
									Н	1	J	K	Т	J	L	М	٧	N	0	Р	Q	R	s	W	Х	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
200		•																									

Dimensions

AFF37B



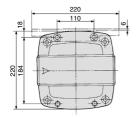
Note) The figure shows the drain cock specification.

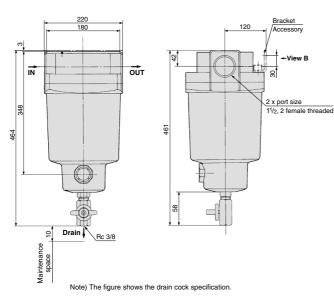
AD□ GD

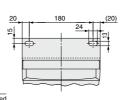
AFF Series

Dimensions

AFF75B



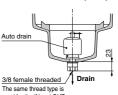




Drawing of view B

Auto drain

D: With auto drain (N.O.)



used for the IN and OUT.

AFF75A to 220A

IN N-1

3 x ø20 holes For foundation bolt 330° 0, N-4 OUT øΑ 210 В Label N-5 Rp1/4 Drain Rc%

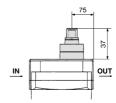
ORIENTATION

N5: Pressure outlet (OUT side) N6: Pressure outlet (IN side)

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

Option

T: With element service indicator



Mist Separator AM Series

RoHS

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

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

ouo.							
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	11/2, 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)

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

> IDF IDU

> > IDFA

IDFB IDH

ID

IDG IDK

AMG

AFF

AM

AMD AMH

AME

AMF

ZFC

SF

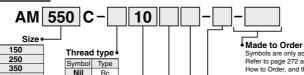
SFD LLB

AD□

^{*2} When the inlet oil mist density is 30 mg/m3 (ANR).

How to Order

AM150C to 550C



				ı	Port :	size•	_							
Cumhal	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				•	•								

450

550

Accessory Symbol Description Nil Bracket *1 В

Bracket is included, (but not assembled).

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.

te symbols in alphabetical order.
Description
_
Rubber material: FKM
For medium air pressure (1.6 MPa)
Drain guide 1/4 female threaded *5
IN-OUT reversal direction
With differential pressure switch (125 VAC, 30 VDC) *6, Note)
With differential pressure switch (30 VDC) *6
Element service indicator
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.

Auto Drain Specifications/Option Combinations

: All types of auto drain specifications are available. (including drain guide, "J" specification)

F

G

NPT

- △: 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		0		Note	Note			
F	0		•	0				•		
Н	Δ	▼		Δ				▼		
R	0	0	Δ			Note		0		
S										
U	Note			Note						
Т								0		
٧	0	▼	•	0			0			

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

10 1

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

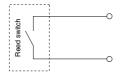
Symbol S: With differential pressure switch (with indicator)



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



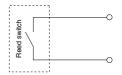
Symbol U: With differential pressure switch (with indicator)



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

The rated contact voltage is different

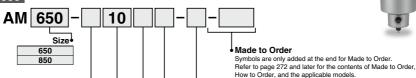
Max. contact capacity: 10 W DC Rated contact voltage (max. operating current): 30 VDC (0.33 A)













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							
T	With element service indicator							

*5 Without a valve function

Port size

Symbol	Port	Applica	DIC SIZE
Symbol	size	650	850
10	1	•	_
14	1 1/2	•	•
20	2	_	•

Thread type

Symbol Type

Rc

G NPT

Nil

Accessory

Symbol	Description
Nil	_
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

rute Brain opeoii.	~								
Auto duoin	anasifications/Ontion		Auto drain specifications		Option		Applicable model		
Auto drain	specifications/Option		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	T	0	0	0		0	0	

AMD

AME AMF

AMH

HAA HAW

AT

IDF IDU

IDF

∣⊟FS

IDFA

IDFB IDH

ID

IDG

IDK

AMG

AFF AM

ZFC

SF

SFD

LLB $\mathsf{AD}\square$

GD

Options

Symbol J: Drain guide 1/4 female threaded



Symbol R: IN-OUT reversal direction

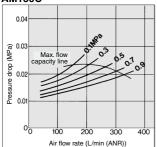
Flow direction: Right to left (Flow direction of the standard: Left to

AM Series

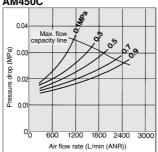
Flow Rate Characteristics (Representative values) /Select the model under the max. flow capacity line. (Element oil saturation)

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

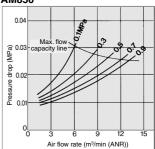
AM150C



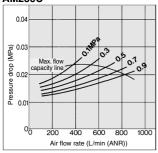
AM450C



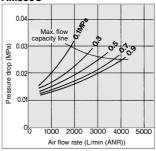
AM850



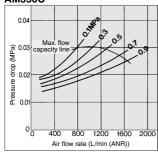
AM250C



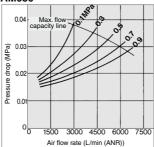
AM550C



AM350C

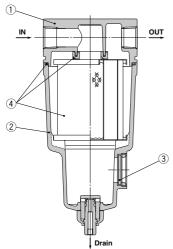


AM650



Construction

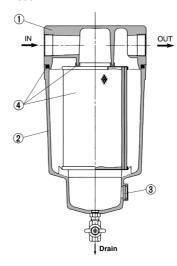
AM150C to 550C, AM650



Component Parts

ı	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.

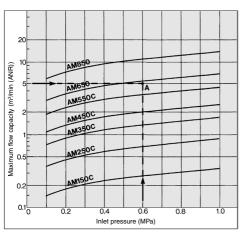
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 228 through to 230 for details.

Replacement Parts

No.	Description	Material	Applicable		Model												
INO.	Description	Material	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.
- 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

IDF IDU

IDFA IDFB

IDH ID

IDG IDK

AMG

AFF AM

AMD

AMH

AMF

ZFC SF

SFD

LLB

AD□

AM Series

Dimensions

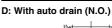
AM150C to 550C Auto drain C: With auto drain (N.C.) D: With auto drain (N.O.) Auto drain Q α Color of drain cock Gray: N.C. Black: N.O. One-touch fitting 0 Thread type Rc, G: ø10 Thread type NPT: ø3/8 Combination of D: With auto drain (N.O.) and H: For medium air pressure Auto drain Width across Bracket flats 17 (Accessory) 1/4 female threaded Drain The same thread type is used for the IN and OUT. Note) 23 for AM250C Option OUT J: Drain guide 1/4 female threaded 2 x Port size O I Drain guide Width across \Box flats 24 Drain 1/4 female threaded The same thread type is used for the IN and OUT. S, U: With differential pressure switch (with indicator) ш G **(A)** M5 Maintenance OUT space IN T: With element service indicator Note) The figure shows the drain cock specification.

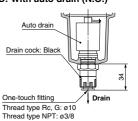
	(m															(mm)											
Model	Port size A B C D E E G Bracket related dimensions								sen	r related	Differential pressure switch related dimensions																
									Н	1	J	K	Т	J	L	M	٧	N	0	Р	Q	R	S	W	Х	Υ	Z
AM150C	1/8, 1/4	158	10	99	63	20	63	10	173	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6	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

OUŢ

AM650

180 76 헏 9 136 <u>(0)</u> 0

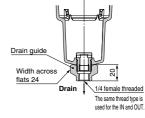


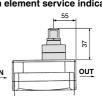


Auto drain

Option

J: Drain guide 1/4 female threaded





AME AMF

HAA HAW

AT

IDF IDU IDF

□FS

IDFA

IDFB

IDH ID

IDG

IDK

AMG

AFF

AM

AMD

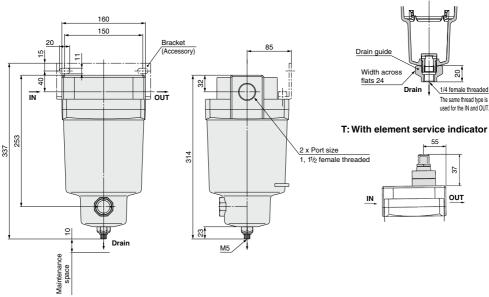
AMH

ZFC

SF SFD

LLB AD□

GD

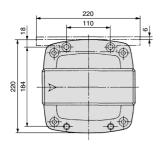


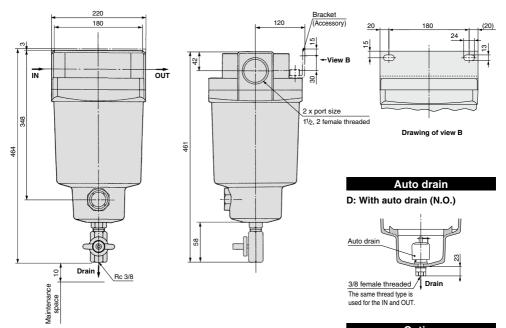
Note) The figure shows the drain cock specification.

AM Series

Dimensions

AM850

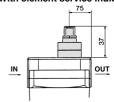




Note) The figure shows the drain cock specification.

Option

T: With element service indicator



Micro Mist Separator AMD Series

RoHS

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.)



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, 11/2	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 234) and "Maximum Flow Capacity Line" (page 233).

Model/Free Standing Type

	7 I' '	
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 filist defisity at outlet	(Before saturated with oil, less than 0.01 mg/m³ (ANR) ≈0.008 ppm)			
Flowest venteesment newled	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

tooocony runtino.								
Applicable model	AMD150C	AMD250C	AMD350C	AMD450C	AMD550C	AMD650	AMD850	
Bracket assembly (with 2 mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57	

Caution

Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air

Preparation Equipment Precautions.

HAW AT

IDF IDU IDF

IDFA IDFB

IDH

ID

IDG IDK

AMG AFF

AM

AMD AMH

AME

AMF ZFC

SF

SFD LLB

 $\mathsf{AD}\square$

How to Order

AMD150C to 550C

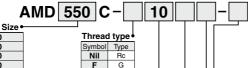
150

250

350

450

550



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

Accessory Symbol Description Nil

Bracket *1

NPT

Refer to page 272 and later for the contents of Made to Order. How to Order, and the applicable models.

Symbols are only added at the end for Made to Order

Option *3

Multiple options can be selected.

Made to Order

Refer to the table on the lower left for the available combinations.

· Indica	· 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					
Т	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
0	Description

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.)
- 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.

Port size •

Symbol	Port	Applicable size							
Symbol	size	150	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

- : 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		0		Note		0
F	0		•	0				•
Н	Δ	▼						▼
R	0	0			Note			0
S								
U	Note			Note				
Т				1				0
٧	0	•	•	0			0	

Note: Only one drain exhaust method can be selected. 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

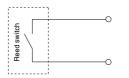
Symbol S: With differential pressure switch (with indicator)



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



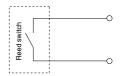
Symbol U: With differential pressure switch (with indicator)



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

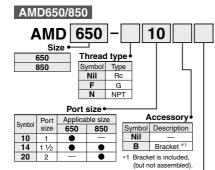
The rated contact voltage is different

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



Micro Mist Separator AMD Series





Made to Order Symbols are only ad

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.

Sym	lode	Description
N	il	_
J	ı	Drain guide 1/4 female threaded *5
F	₹	IN-OUT reversal direction
1	Г	With element service indicator

*5 Without a valve function

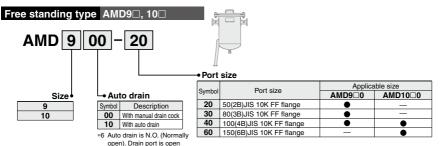
Auto drain *2

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.

Auto Drain Specifications/ Option Combinations

Auto drain specifications/Option			Auto drain specifications				Applicable model	
			D	J	R	Т	AMD650	AMD850
Auto drain specifications	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



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

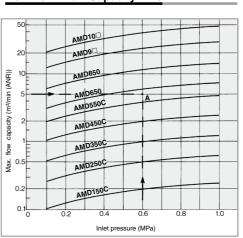
when pressure is not applied

Max. flow capacity: 5 m³/min (ANR)

- Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
- 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



HAA

AT

IDU IDF □FS

IDFA IDFB

IDH

ID

IDG IDK

AMG

AFF AM

AMD

AMH

AMF

ZFC SF

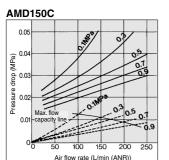
SFD

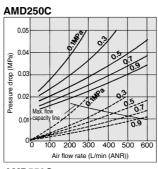
AD.

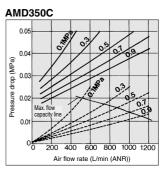
AMD Series

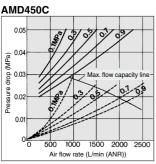
Flow Rate Characteristics (Representative values)/Select the model under the max. flow capacity line. (—— Element oil saturation ---- Initial condition)

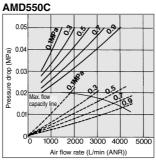
Note) Compressed air over max. flow line in the table below may not meet the specifications of the product.

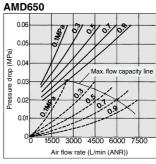


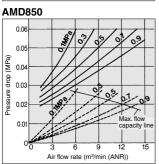


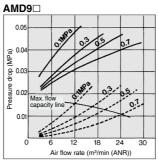


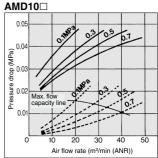






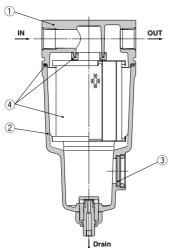






Construction

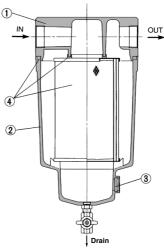
AMD150C to 550C, AMD650



Component Parts

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

AMD850



Note) The figure shows the drain cock specification.

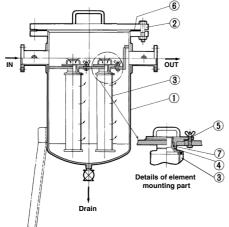
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 236 through to 239 for details.

Replacement Parts

No.	Description	M-4	Applicable	Model											
		Material	model	AMD150C	AMD250C	AMD350C	AMD450C	AMD550C	AMD650	AMD850					
	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
	Boothpaon	AMD9□, 10□
1	Case	Carbon steel
2	Cover	Carbon steel

Replacement Parts

No.	Description	Material	Model									
	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 IDF

IDFA IDFB

IDH ID

IDG IDK

AMG AFF

AM

AMD AMH

AME AMF

ZFC

SF

SFD LLB

AD□

AMD Series

Dimensions

AMD150C to 550C Auto drain C: With auto drain (N.C.) D: With auto drain (N.O.) Auto drain Q α Color of drain cock Gray: N.C. Black: N.O. One-touch fitting 0 Thread type Rc, G: ø10 Thread type NPT: ø3/8 Combination of D: With auto drain (N.O.) and H: For medium air pressure Auto drain Width across Bracket flats 17 (Accessory) 1/4 female threaded Drain The same thread type is used for the IN and OUT. Note) 23 for AMD250C Option IN OUT J: Drain guide 1/4 female threaded 2 x port size O Drain guide I Width across flats 24 Drain 1/4 female threaded The same thread type is used for the IN and OUT. S, U: With differential pressure switch (with indicator) ш Ü (A) M5 Maintenance OUŢ IN space

	(mm)																										
Model	Port size	А	В	С	D	E	F	G		Bracket related dimensions													Element service indicator related dimensions		Differential pressure switch related dimensions		
									Н	1	J	K	Т	J	L	M	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

Note) The figure shows the drain cock specification.

T: With element service indicator

OUT

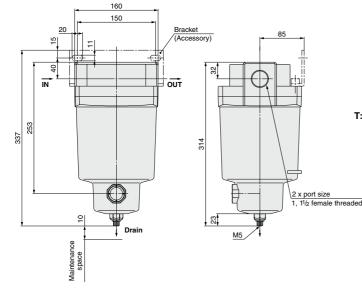
IN

Micro Mist Separator AMD Series

Dimensions

AMD650

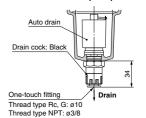
180 76 2 9 36 (⊚) 0



Note) The figure shows the drain cock specification.

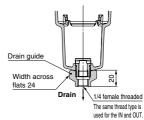
Auto drain

D: With auto drain (N.O.)

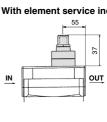


Option

J: Drain guide 1/4 female threaded



T: With element service indicator



AMD AMH

HAA HAW

AT

IDF IDU IDF

□FS

IDFA

IDFB

IDH ID

IDG

IDK

AMG

AFF

AM

AME AMF

ZFC SF

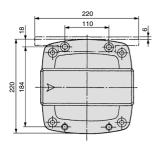
SFD LLB

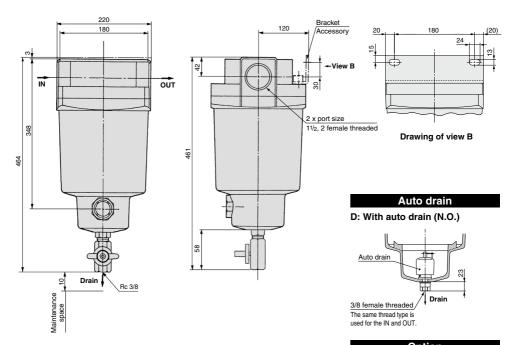
AD□

AMD Series

Dimensions

AMD850

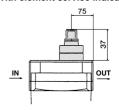




Note) The figure shows the drain cock specification.

Option

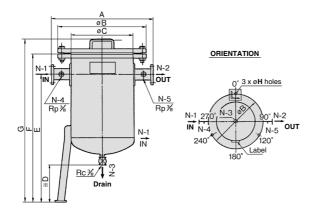
T: With element service indicator



Micro Mist Separator AMD Series

Dimensions

AMD9□, 10□



									(mm)
Model	Port size (Flange)	Α	øΒ	øC	D	E	F	G	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

АМН

AME

AMF ZFC

SF

SFD LLB

AD□

Micro Mist Separator with Pre-filter

AMH Series

RoHS

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.)



AMH150C to 550C

AMH650/850

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, 11/2	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 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
Oil mist density at outlet	(Before saturated with oil, less than 0.01 mg/m³ (ANR) ≈0.008 ppn
Element replacement period	2 years or when pressure drop reached 0.1 MPa
A MELL III OAMB ALOLI) - 0 45 MD (MO) - 1)

- *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.

Ap	plicable model	AMH150C	AMH250C	AMH350C	AMH450C	AMH550C	AMH650	AMH850
	cket assembly mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57

Model Selection

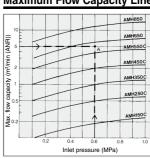
Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consider-

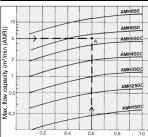
(Example) Inlet pressure: 0.6 MPa Max. flow capacity: 5 m3/min (ANR)

- 1. Obtain the intersecting point A of inlet pres-
- sure 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.

Maximum Flow Capacity Line





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.

HAW AT

IDF IDU IDF

IDFA IDFB

IDH

ID

IDG IDK

AMG

AFF AM

AMD

AMH AME

AMF **ZFC**

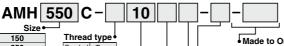
SF

SFD LLB

AD 🗆

How to Order

AMH150C to 550C



Accessory Symbol Description Nil В

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



Symbol Type G NPT

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				
Т	With element service indicator				
V	White vaseline				
»E Without a value function					

- *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	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							

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		0		Note		0
F	0		•	0				_
Н	Δ	▼		Δ				▼
R	0	0	Δ			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 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 riaht)

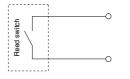
Symbol S: With differential pressure switch (with indicator)



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 U: With differential pressure switch (with indicator)

1/4 female threaded

Symbol J: Drain guide 1/4 female threaded

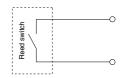


Clogging of the element can be observed visually or with an electrical signal.

Pipe threaded connection for the drain exhaust port

The rated contact voltage is different

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



Symbol T: With element service indicator



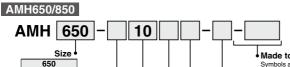
Clogging of the element can be observed visually.

Symbol V: White vaseline

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

Micro Mist Separator with Pre-filter ANH Series

How to Order





Thread type

850

Symbol Type Nil Rc F G N NPT

Port size

Port	Applicable size			
size	650	850		
1	•	_		
1 1/2	•	•		
2	_	•		
	size 1	size 650		

Accessory

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

*5 Drain piping and piping for a stop valve such as hall valve are required.

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 (Rc3/8). Mount a piping adapter IDF-AP609 (page 267) to the ball valve if NPT3/8 female threaded is required.

Auto Drain Specifications/Option Combinations

: Not available Applicable model Auto drain specifications Option Auto drain specifications/Option D R AMH650 AMH850 D Auto drain specifications N.O. auto drain Drain guide 1/4 J Option IN-OUT reversal direction R With element service indicator Т

HAA HAW

AT IDF

İĎŪ IDF

IDFA

IDFB IDH

ID

IDG

IDK

AMG

AFF

AM AMD

AMH

AME

AMF **ZFC**

SF

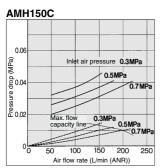
SFD

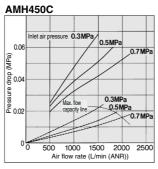
LLB $\mathsf{AD}\square$

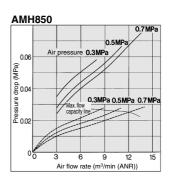
AMH Series

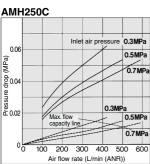
Flow Rate Characteristics (Representative values)/Select the model under the max. flow capacity line. (——Element oil saturation ---- Initial condition)

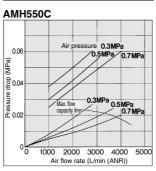
Note) Compressed air over max. flow capacity line in the table below may not meet the specifications of the product.

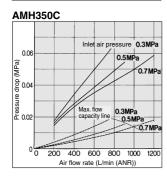


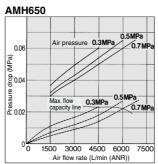








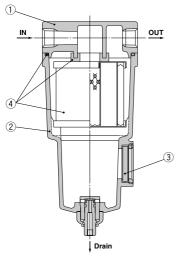




Micro Mist Separator with Pre-filter AMH Series

Construction

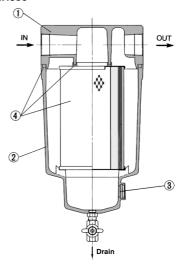
AMH150C to 550C, AMH650



Component Parts

Component i unto							
No.	Description	Description Material					
1	Body	Aluminum alloy	Inner/outer				
2	Housing (Case)	Aluminum alloy	surface coating				
3	Sight 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

IDF IDU IDF □FS

IDFA IDFB

> IDH ID

IDG

IDK AMG

AFF AM

AMD

AMH

AME AMF

ZFC

SF SFD

LLB

AD GD

AMH Series

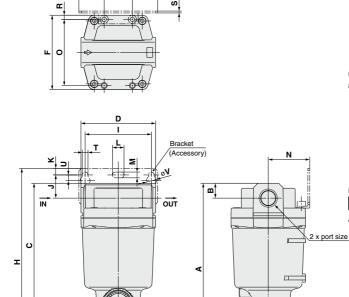
Dimensions

AMH150C to 550C

Q

G

Maintenance space



Note) The figure shows the drain cock specification.

ш

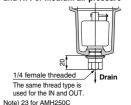
M5

Auto drain

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

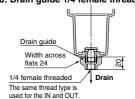


Combination of D: With auto drain (N.O.) and H: For medium air pressure



Option

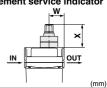
J: Drain guide 1/4 female threaded



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



T: With element service indicator

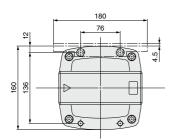


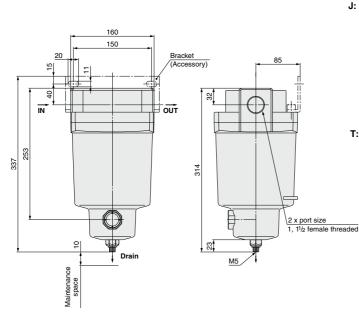
Model	Port size	А	В	С	D	E	F	G					В	rack	et re	elate	ed di	men	sions					Eler sen indicato dimer	r related	pres	rential ssure related nsions
									Н	- 1	J	K	Т	J	L	М	٧	N	0	Р	Q	R	S	W	Х	Υ	Z
AMH150C	1/8, 1/4	161	10	99	63	23	63	10	176	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6	24	37	32	41
AMH250C	1/4, 3/8	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

Micro Mist Separator with Pre-filter ANH Series

Dimensions

AMH650

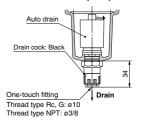




Note) The figure shows the drain cock specification.

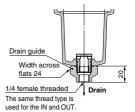
Auto drain

D: With auto drain (N.O.)

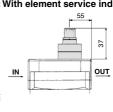


Option

J: Drain guide 1/4 female threaded



T: With element service indicator



AM AMD

HAA HAW

AT

IDF IDU

□FS

IDFA

IDFB

IDH ID

IDG

IDK

AMG

AFF

AMH AME

AMF ZFC

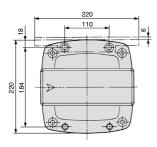
SF SFD

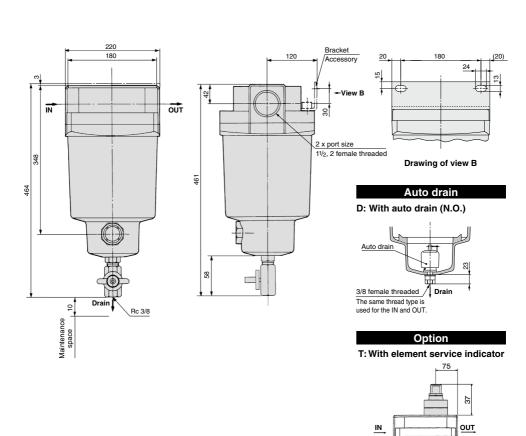
LLB AD

AMH Series

Dimensions

AMH850





Super Mist Separator AME Series

RoHS

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.

Be sure to use either the AM, I 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, 11/2	11/2, 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

opecinications	
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

Accessory rait	110.						
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.

HAW AT

IDF IDU IDF

IDFA

IDFB IDH

ID

IDG IDK

AMG

AFF AM

AMD

AMH

AME AMF

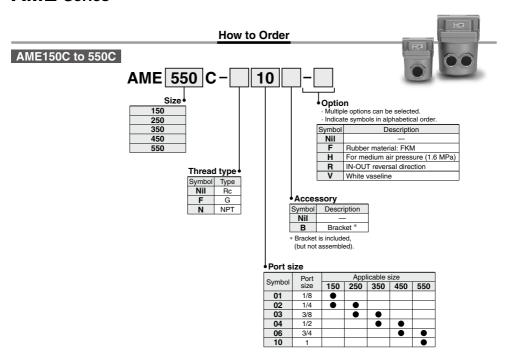
ZFC

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.

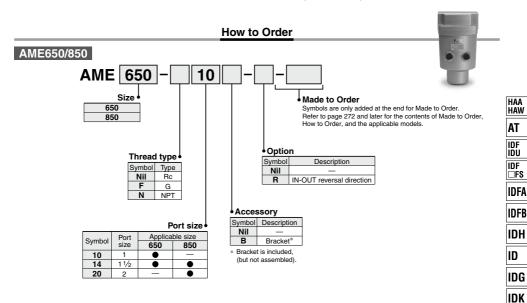
Symbol H: For medium air pressure (1.6 MPa)

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

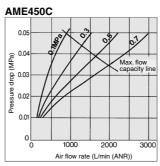


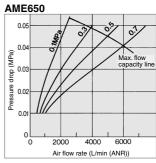
AMG
AFF
AM
AMD
AMH
AME
SFC
SFC
SFD
LLB
AD
GD

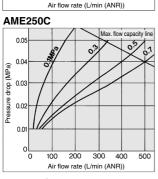
AME Series

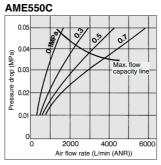
Flow Rate Characteristics (Representative values) /Select the model under the max. flow capacity line. (Element initial condition)

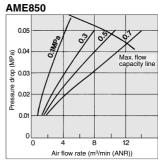
Note) Compressed air over max. flow capacity line in the table below may not meet the specifications of the product.

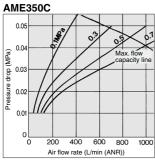












Model Selection

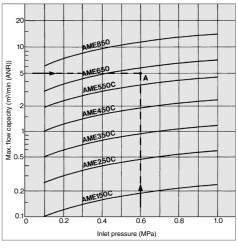
Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

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

- Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
- The 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 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.

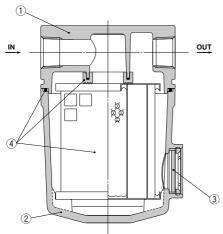
Maximum Flow Capacity Line

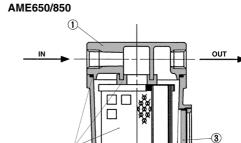


Super Mist Separator AME Series

Construction

AME150C to 550C





2

Component Parts

00.	iiponent i arts		
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

Nia	Description	Material	Applicable				Model			
IVO.	Description	Material	model	AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850
_	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	_	_
		0111010	1 or option 1	7 WILL EE 100 1	THE ELECT !	7 WILL ELGOO !	7 WILL EE 100 1	7 WILL ELECTO !		

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

HAA HAW AT

IDF IDU IDF IDFS

> IDFB IDH

ID

IDG IDK

> AMG AFF

AM

AMD

AMH

AMI:

ZFC

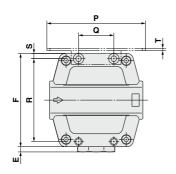
SF SFD

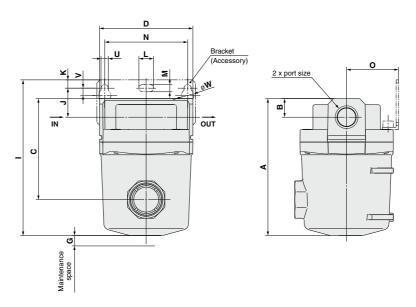
LLB AD

AME Series

Dimensions

AME150C to 350C

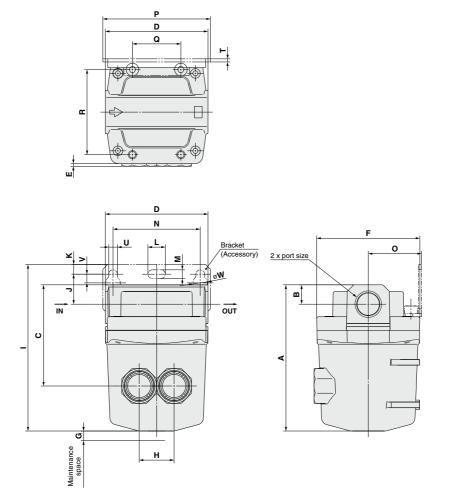




																							(mm)
Model	Dort size		В	_	D	_	_	G					Br	acke	t rela	ed di	mens	sions					
Model	Port size	A	-	٦	יי	-	-	ď	ı	N	J	K	U	٧	L	М	W	0	Р	Q	R	s	Т
AME150C	1/8, 1/4	83	10	54	63	7.5	63	10	99	56	20	5	6	6	12	6	10	35	70	26	54	4.5	1.6
AME250C	1/4, 3/8	103	14	73	76	5	76	10	121	66	24	8	6	6	12	6	10	40	80	28	66	5	2
AME350C	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



	(mm)	
_	_	

																							(111111)
Model	Port size	_	ь	_	7	_	_	_	ш					Bra	cket	relate	d din	nensi	ons				
	Port Size	_ A	-	١٠	ט	-	-	G	п	ı	N	J	K	U	V	L	М	W	0	Р	Q	R	T
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

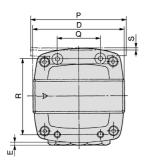
SFD LLB

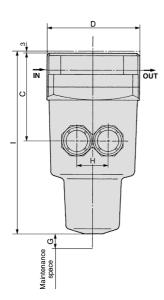
AD□

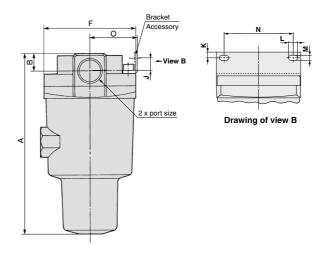
AME Series

Dimensions

AME650/850







																				(mm)
Model	Port size		ь	_	7	_	_	0	ш				Bra	cket re	lated d	limensi	ons			
Model	Port size	A	P	L .	ן ט			G	п .	- 1	J	K	L	M	N	0	Р	Q	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 AMF Series

RoHS

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.



Be sure to use the AME series as a pre-filter.

Modular connection is possible with AMF150C to 550C. (For details, refer to page 266.)



AMF150C to 350C AMF450C/550C



AMF650/850

Symbol





модеі							
Model	AMF150C	AMF250C	AMF350C	AMF450C	AMF550C	AMF650	AMF850
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, 11/2	11/2, 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

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, which performs first the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of

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

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.

HAW

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IDF IDFA

IDFB

IDH

ID

IDG IDK

AMG

AFF AM

AMD

AMH

AME AMF

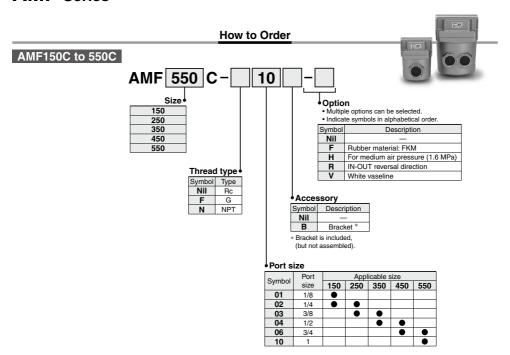
ZFC

SF

SFD LLB

 $\mathsf{AD}\square$

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.

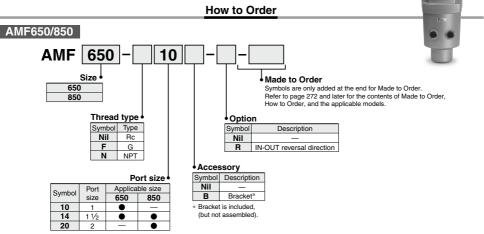
Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at

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

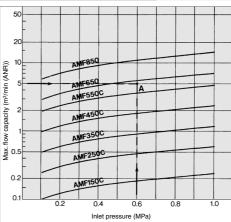
Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

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

- Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
- 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 IDK

AMG

AFF

AMD

AMH

AMF ZFC

SF

SFD LLB

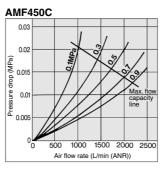
AD□ GD

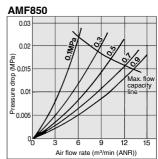
AMF Series

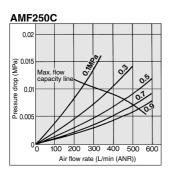
Flow Rate Characteristics (Representative values)/Select the model under the max. flow capacity line. (Element initial condition)

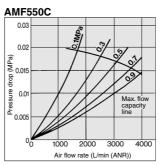
Note) Compressed air over max. flow line in the table below may not meet the specifications of the product.

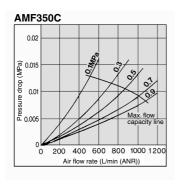
AMF150C 0.02 (a) 0.015 Max. flow capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity line capacity

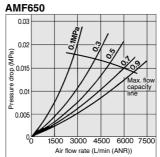








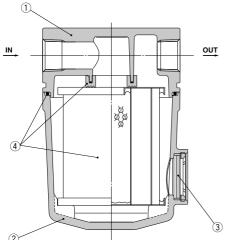




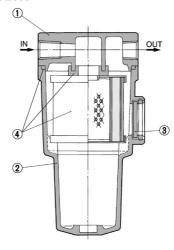
Odor Removal Filter AMF Series

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

No.	Description	Motorial	Applicable				Model			
IVO.	Description	Material	model	AMF150C	AMF250C	AMF350C	AMF450C	AMF550C	AMF650	AMF850
_	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

IDF IDU IDF □FS

IDFA IDFB

IDH ID

IDG

IDK AMG

AFF

AM

AMD

AMH AME

AMF

ZFC

SF

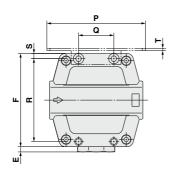
SFD LLB

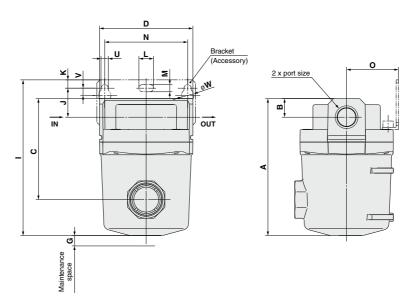
AD□

AMF Series

Dimensions

AMF150C to 350C

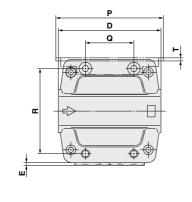


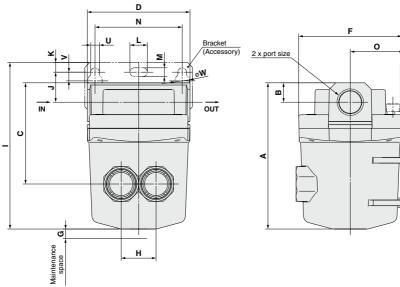


																							(mm)
Model	Port size	_	В	_	D	_	_	G					Br	acke	t relat	ed di	mens	ions					
Model	Port Size	A	-	٦	יי	-		٩	ı	N	J	K	U	٧	L	М	W	0	Р	Q	R	s	Т
AMF150C	1/8, 1/4	83	10	54	63	7.5	63	10	99	56	20	5	6	6	12	6	10	35	70	26	54	4.5	1.6
AMF250C	1/4, 3/8	103	14	73	76	5	76	10	121	66	24	8	6	6	12	6	10	40	80	28	66	5	2
AMF350C	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

AMF450C/550C





1	m	m	۸

																							·····/
Model	el Port size A B C D E F G H Bracket related dimensions																						
Model	Port size	_ ^	-	-	٦,	-	-	٩	п	ı	N	J	K	U	V	L	M	W	0	Р	Q	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

> IDF IDU IDF □FS

IDFA IDFB

IDH

ID IDG

IDK

AMG AFF

AMD

AMH

AME AME

ZFC SF

SFD

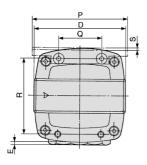
LLB AD

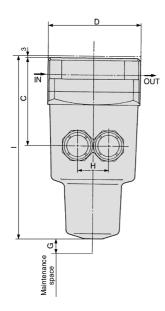
AUL

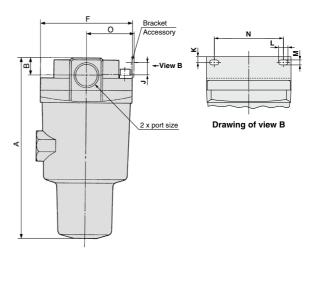
AMF Series

Dimensions

AMF650/850







																				(111111)
Model	Port size	_	В	,	7	_	_	6	ш				Bracke	t relate	d dime	nsions				
Model	FUIT SIZE	_ ^	-	C	וטו	_	г	G	п	1	J	K	L	M	N	0	P	Q	R	S
AMF650	1, 11/2	291	32	167	160	_	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	ire is applied	Minimum operating pressure	
7 tato araii.	(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
N.O. Normally open	Float			0.1 MPa or more AM□150 to 850 AFF2 to 75	IDF IDU IDF IDFA
	Piston			7.1.1.2.0.7.0	IDFB IDH
	Drain not discharged (Close)				ID IDG
N.C.	Float			0.15 MPa or more AM□150 to 550	IDK AMG
Normally closed	Piston			AFF2 to 22	AFF AM
	Orifice				-
					AMD
					VMT

◆ 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□850, and free standing type)



	Proper Use			Recommended
Compressor	When pressure is not applied (After exhausting residual pressure)	Cold climates		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.



265

AME AMF

ZFC SF SFD LLB AD□ GD

Optional Accessories

Spacer for Modular Connection

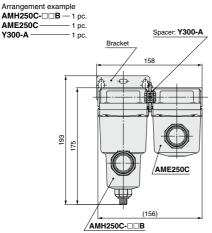
Use a spacer listed below when connecting modular type AFF2C to 22C, AM□150C to 550C. The spacer must be ordered separately. (Note: Spacer with bracket (Y200T-A to Y600T-A) cannot be used.)

⚠ Caution

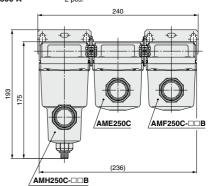
Modular connection

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

Combination examples of modular type products





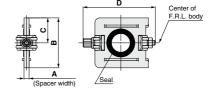


Spacer



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

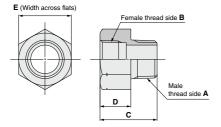


Replacement Parts

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

Piping Adapter



Dimensions (mm						
	Thread type	and port size				
Part no.		Female thread	С	D	E	Material
	side A	side B				
IDF-AP609	R 3/8	NPT 3/8	30	15	22	Brass

HAA HAW

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IDG IDK

AMG

AFF

AM AMD

AMH

AME

AMF

ZFC SF

SFD

LLB AD

Bowl Assembly AM-CA / AME-CA



Bowl Assembly

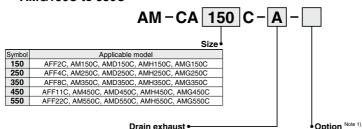
- Use only when replacing the bowl assembly, while the body is connected to the piping.
 - Example) Changing the drain exhaust specification from the drain cock type to the auto drain type.
 - The bowl has been damaged.

(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 —
- ① For AFF2C to 22C, AM150C to 550C, AMD150C to 550C, AMH150C to 550C, AMG150C to 550C



	oxnauot				
Symbol	Description	Drain port	Symbol	Description	
			Nil	_	Combinations of
A	With drain cock	M5	F	Rubber material: FKM	
_ ^	With drain 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
011	Drain port is closed when pressure is not applied.	95/0 111011	V	White vaseline	selected.
D	N.O. auto drain Note 2)	ø10 mm	Nil	_	Onlyana
_		91011111	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.
DIN	Drain port is open when pressure is not applied.	95/6 IIICII	V	White vaseline	Scicolou.
J		Bc1/4	Nil	_	Combinations of
J	With drain guide		F	Rubber material: FKM	בח בחוז בוז
JF]	G1/4	Н	For medium air pressure (1.6 MPa)	and HV available

White vaseline

Based on How to Order 4.

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.

NPT1/4

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

Without a valve function

Bowl Assembly AM-CA AME-CA

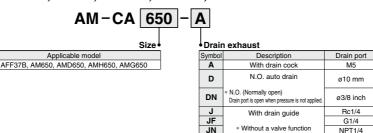
NPT1/4

How to Order Bowl Assembly

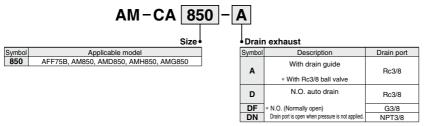
2 For AFF37B, AM650, AMD650, AMH650, AMG650

Symbol

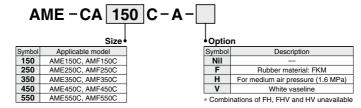
650



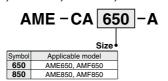
3 For AFF75B, AM850, AMD850, AMH850, AMG850



4 For AME150C to 550C, AMF150C-550C



5 For AME650, AME850, AMF650, AMF850



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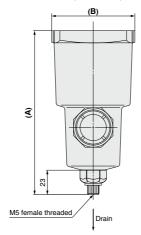
LLB

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AM-CA□/AME-CA□

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

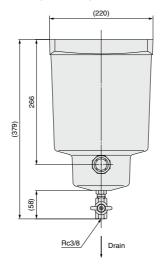
Applicable filter model: AFF2C to 22C, AFF37B, AM150C to 550C, AM650, AMD150C to 550C, AMD650, AMH150C to 550C, AMH650, AMG150C to 550C, AMG650



Note) The figure shows the drain cock specification.

			(111111)
AFF series	AM, AMD, AMG, AMH series	Α	В
Size	Size	_ ^	В
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

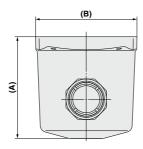


Note) The figure shows the drain cock specification.

Bowl Assembly AM-CA \square /AME-CA \square

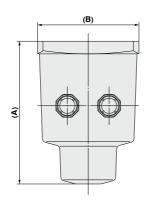
Dimensions: AME, AMF Series

■ AME150C to 550C, AMF150C to 550C



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

■ AME650, AME850, AMF650, AMF850



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

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AMG

AFF

AM

AMD

AMH AME

AMF

ZFC

SF

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AD□

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



Made to Order

Description		Applicable model						Danie	
		AMG	AFF	АМ	AMD	АМН	AME	AMF	Page
① With Differential Pressure Gauge	Х6	_	•	•	•	•	_	_	D 070
② With Differential Pressure Switch (With Indicator)	X37	_	•	•	•	•	_	_	P.273
③ With IN-OUT Flange	X15	•	•	•	•	•	_	_	P.274
With Differential Pressure Gauge, IN-OUT Flange	X17	_	•	•	•	•	_	_	F.2/4
⑤ Auto Drain, Drain Piping Threaded Connection Type	X26	•	•	•	•	•	_	_	P.275
6 White Vaseline Specifications	X12	•	•	•	•	•	•	•	P.275
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

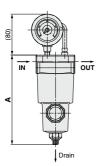
Standard model no.*	$-\mathbf{X}$
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* Refer to How to Order of the standard specifications for the applicable models.

Example) AFF22C-06-X6

Note) 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, AMH series	Α
Size	Size	A
2C	150C	161
4C	250C	175
8C	350C	207
11C	450C	228
22C	550C	262
37B	650	314
75B	850	461

② 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

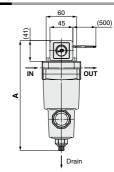
Contacts	a contact (1 point)	
Reed switch rating	Max. contact capacity	10 VA AC, 10 W DC

How to Order

* 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	Α
37B	650	355
75B	850	501

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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.

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.

How to Order

Standard model no.*

-X15

* 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

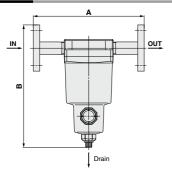
Standard model no.*

* 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.

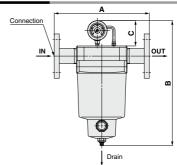
Dimensions



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	В
11C 450C		04	15 (1/2B)	242±3	256
110	450C	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	030	14	40 (1 ½B)	298±4	352
75B	950	14	40 (1 ½B)	384±4	489
730	850	20	50 (2B)	378±4	497

Dimensions



Note) The figure shows the drain cock specification.

	, ,				(mm)
AFF series	AM, AMD, AMG, AMH series	Port size	JIS 10K FF	А	В	С
Size	Size	symbol*	flange	Α .		٦
11C	450C	04	15 (1/2B)	242±3	308	
110		06	20 (3/4B)	239±3	300	
22C	550C	06	20 (3/4B)	255±3	342]
		10	25 (1B)	259±4	342	80
37B	650	10	25 (1B)	297±4	394	100
3/6		14	40 (1 ½B)	298±4	394	
75B	850	14	40 (1 ½B)	384±4	541]
		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

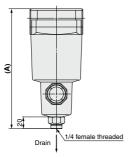
Standard model no.* ·X26

* 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	Α
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

Example) AM650-10-X12

Standard model no.* -X12

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

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Made to Order Specifications 4



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

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

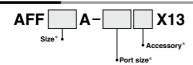
This filter is for high flows with a nominal filtration rating (0.3 μ m) the same as the AM series mist separator. The specifications other than the nominal filtration rating are all equivalent to those of the AFF75A to 220A.

Applicable Models

AFF75A to 220A

How to Order

* Refer to "How to Order" for standard specifications.



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.*

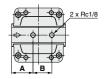
-X360

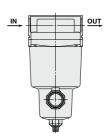
* Refer to How to Order of the standard specifications for the applicable models. However, thread types F (G thread) and N (NPT) are not supported.

Example) AMD350C-03D-X360

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

Dimensions





(mm)

AFF series	AM, AM* series	Port size	Α	В
Size	Size	T FUIT SIZE	A	-
2C	150C	1/8, 1/4	17	31
4C	250C	1/4, 3/8	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.

- 2. 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.

 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.

Provide a design that prevents back pressure and back flow.

Back pressure or back flow may damage an element.

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□

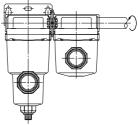
- The individual inspection certificate (in Japanese) of the Class-2 Pressure Vessel will be sent 2 to 4 weeks after the product is delivered. Keep this certificate in a safe place, and be careful not to misplace it.
- The individual inspection certificate can only be reissued within one year. If one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

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

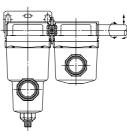
Insufficient tightening torque may cause loosening or defective sealing. Over-tightening torque may damage the thread etc. If it is tightened without holding the female thread side, excessive force will be directly applied to the piping bracket resulting in a product failure.

Recommended Torque Unit: N-I						Jnit: N∙m			
	Connection thread	1/8	1/4	3/8	1/2	3/4	1	1 1/2	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

 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.



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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AFF AM

AMD

AME

AMF

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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

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.

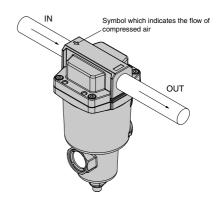
Piping

⚠ Caution

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 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.

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 range.

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

- Do not use in the following environments, as this can cause failure.
 - In locations having corrosive gases, organic solvents, and chemical solutions, or in locations where these elements are likely to adhere to the equipment.
 - 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.
- 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

 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 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)

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.

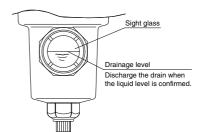
d. In the case of the AMF

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

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.



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□



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

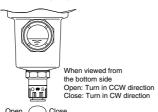
⚠ Caution

3. In the case of a type with auto drain

- The auto drain operates when the drain accumulates, and discharges the drain.

<Manual operation>

A manual knob attached to the auto drain end is tightened to the "5" side in normal operation. The drain can be discharged by loosening it to the "0" side. (Be careful, however, if pressure remains inside the filter when the drain is discharged, the drain will blow out from the drain port.)



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

Danasia	Necessary parts				
Descrip- tion	Manufactured Jan. 2010 or before Manufactured Feb. 2010 onwards [Manufacturing lot No. up to oo] [Manufacturing lot No. oP to onwards] Note 2]				
Drain cock	Non-replaceable AM-SA039		2C to 22C		
Drain guide	Non-replaceable Thread type Rc: AM-SA040 Thread type G: AM-SA040-F Thread type NPT: AM-SA040-N		150C to 550C 650 37B		
N.O. auto drain	Thread type Rc, G: AD43PA-D Thread type NPT: NAD43PA-D				
N.C. auto drain	Thread type Ro Thread type NF	2C to 22C 150C to 550C			
Ball valve set	AM-S				
N.O.auto drain Note 1)	Thread type F Thread type G Thread type NF	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.



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	Option	Rc	G	NPT		
	Except F, V	AM-SA039				
Drain cock	F	AM-SA039-1				
Diain cock	V	AM-SA039-2				
	FV					
	Except F, V	AM-SA040	AM-SA040-F	AM-SA040-N		
Drain avida	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	AD53	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)					

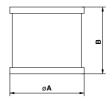
Note) For the option H, the auto drain cannot be replaced

Others

1. Element interchange

Following is the element dimensions for the AFF and AM□ 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

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 $AM\square$ series (when the element is removed).

Volume Inside Filter

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

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