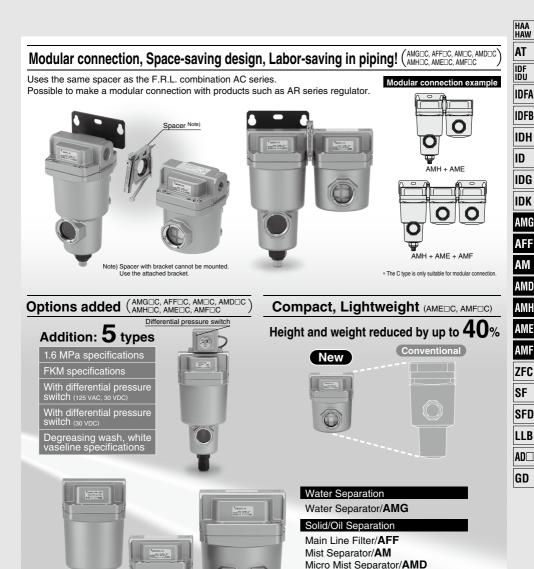
Compressed Air Cleaning Filter Series

Series AM□/AFF

For Water, Solid/Oil Separation and Deodorization



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

Odor Removal Filter/AMF

Deodorization

Series AM \(\square\) /AFF

Water droplet removal

Water Separator

Water droplet separation rate: 99%





Large dust particle filtration, Oil droplet separation

Main Line Filter Nominal filtration rating: 3 µm

[Filtration efficiency: 99%]





Dust-filtration, Oil mist separation

Mist Separator

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



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]



Model		Flow capacity L/min (ANR) Max. flow capacity at 0.7 MPa inlet pressure	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	12,000	50(2B) flange					
	125A	22,000	80(3B) flange	Free standing				
	150A	28,000	100(4B) flange	type				
	220A	42,000	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				
AIVID	650	6,000	1, 1 1/2					
	850	12,000	1 1/2, 2					
	800	8,000	50(2B) flange	Free				
	900	24,000	50(2B), 80(3B), 100(4B) flange	ge standing				
	1000	40,000	100(4B), 150(6B) flange	type				

Compressed Air Cleaning Filter Series Series AM 🗆 /AFF

Dust filtration, Oll mist separation

Micro Mist Separator with Pre-filter

Built-in 0.3 µm pre-filter The AM + AMD element have been integrated to achieve a space-saving design. Nominal filtration rating: 0.01 µm [Filtration efficiency: 99.9%] Oil mist density at outlet:

Max. 0.1 mg/m3 (ANR) [≈0.08 ppm]



Dust/filtration, 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 35 particles of size 0.3 μm or larger/10 L (100 particles or less/ft3)



Deodorization

Odor Removal Filter

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







Мо	odel	Flow capacity L/min (ANR) Max. flow capacity at 0.7 MPa inlet pressure	Port size	Note				
	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					
AME	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	Dining				
	450C	2,000	1/2, 3/4	Piping support type				
AMF	550C	3,700	3/4, 1	.,,,,,				
AIVII	650	6,000	1, 1 1/2					
	850	12,000	1 1/2, 2					
	800	8,000	50(2B) flange	F				
	900	24,000	50(2B), 80(3B) 100(4B) flange	Free standing				
	1000	40,000	100(4B), 150(6B) flange	_ type				

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Compressed Air Cleaning Filter Series

Series AM . /AFF

		Series	Water removal rate	Nominal filtration rating	Oil mist density at outlet	Smell	Page
					_		
Elimi	er Separator nates water droplets in the pressed air.	Series AMG	99%	_	_	_	P.185
Elimi oil an	Line Filter nates impurities such as d foreign matter, etc. in pressed air.	Series AFF		3 μm (Filtration efficiency: 99%)	_		P.193
Elimi comp 0.3 μ	Separator nates oil mist in pressed air or rust sized m or more, and foreign er such as carbon.	Series AM		0.3 μm (Filtration efficiency: 99.9%)	1 mg/m³ (ANR) (≃0.8 ppm) (after oil saturation)		P.201
Elimi sized	o Mist Separator nates foreign matter 1 0.01 μm or more, or oil cles in an aerosol state.	ator matter nore, or oil Series AMD		0.01 μm (Filtration efficiency: 99.9%)	0.1 mg/m³ (ANR)	_	P.209
Pre-f Oil se pre-fi	o Mist Separator with ilter eparator, which incorporates lter (equivalent to the AM s) into micro mist separator.	Series AMH		0.3 + 0.01 μm (Filtration efficiency: 99.9%)	(≃0.08 ppm) (after oil saturation)		P.219
Capti 0.01	er Mist Separator ures foreign matter sized µm or more and adsorbs articles in an aerosol state.	dsorbs AMF		(Filtration	0.01 mg/m³ (ANR) (=0.008 ppm)	Reduces oil smell.	P.227
Elimi	r Removal Filter nates odor from oressed air.				0.004 mg/m³ (ANR) (=0.0032 ppm)	Deodorizes oil smell.	P.235
Modular	Connection Examples						P.244
	Connection Examples Order Bowl Assembly						P.244 P.246
	Order Bowl Assembly • Seal m • For me • With di	aterial: FKM edium air pressur fferential pressur AC, 30 VDC)	ıre • Drai	• With	threaded white vase	ine nt service indicator	P.246 Refer to "How to Order" o
How to 0	Order Bowl Assembly Seal m For me With di (125 V. With di Possib by mor Auto di specifi Order With III	edium air pressu fferential pressur	ure gauge uct's service I delement. guide by auto drain	n guide 1/4 female h indicator) Witti (30 If the state of the state	threaded white vase With eleme differential pressure sy	ine nt service indicator witch (with indicator) ations but indicator) ations ations ations ations are sugged, and clogged possible. For switch and differential the element life.	P.246 Refer to "How to Order" or respecti
Options Made to	Order Bowl Assembly Seal m For me With di (125 V. With di Possib by mor Auto di specifi Order With III	dium air pressur fferential pressur AC, 30 VDC) ifferential pressure to control produ itoring the clogge rain type, drain- cations iping is possible I-OUT flange piping connection	ure gauge uct's service I delement. guide by auto drain	n guide 1/4 female h indicator) Witti (30 If the state of the state	white vase with eleme of differential pressure sw VDC) White vaseline specific Using white vaseline for I With differential pressur N-OUT flange Tange piping connection element confirmation are With differential pressu With differential pressu With indicator)* Allows visual confirmation reressure which indicates	ine nt service indicator witch (with indicator) ations but indicator) ations ations ations ations are sugged, and clogged possible. For switch and differential the element life.	P.246 Refer to "How to Order" orespectimodels.
Options Made to	Seal m For mm With di (125 V) With di Possib by mor Auto di Specifi Drain p With II Flange Naly to the AFF37B, 75B, AMII656 Clean s	dium air pressur fferential pressur AC, 30 VDC) ifferential pressire e to control produ itoring the clogge rain type, drain- cations iping is possible II-OUT flange piping connection	re • Drai re switch (with ure gauge uct's service l ad element. guide by auto drain n is possible.	n guide 1/4 female h indicator) Witt (30 ife type. Cotter-free,	white vase with eleme of differential pressure sw VDC) White vaseline specific Using white vaseline for I with differential pressur N-OUT flange Flange piping connection element confirmation are with indicator)* Allows visual confirmation ressure which indicates The built-in contact enable Fluorine-free Series te effects on a color CRT	ine nt service indicator vitch (with indicator) ations* ubricant. re gauge, and clogged possible. re switch n of differential the element life. es remote control.	P.246 Refer to "How to Order" orespectimodels.
Options Made to	Seal m For me With di (125 V With di Possib by mor Auto do specific Drain p With II Flange Specifications Clean SUsable	redium air pressur fferential pressur AC, 30 VDC) ifferential pressur e to control produ ittoring the clogger ratin type, drain cations iping is possible I I-OUT flange piping connection	ure switch (with ure gauge uct's service led element. guide by auto drain in is possible.	n guide 1/4 female h indicator) Witti (30 Iffe Type. Cotter-free, Eliminates th fluoric resin,	white vase with eleme of differential pressure sw VDC) White vaseline specific Using white vaseline for I with differential pressur N-OUT flange Flange piping connection element confirmation are with indicator)* Allows visual confirmation ressure which indicates The built-in contact enable Fluorine-free Series te effects on a color CRT	ine nt service indicator vitch (with indicator) ations* ubricant. re gauge, and clogged possible. re switch of differential the element life. es remote control.	P.246 Refer to "How to Order" crespectismodels.



Water Separator Series AMG

RoHS

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

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

∧ Caution

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)

 x 100

Modular connection is possible with AMG150C to 550C. (For details, refer to page 244.)



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 Characteristics" (page 188) and "Maximum Flow Capacity Line" (page 189).

Specifications

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

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

Accessory

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

⚠ Caution

Be sure to read before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

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AMD

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AME

AMF

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SFD

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Series AMG

How to Order AMG150C to 550C **AMG** 550C 10 Made to Order Body size 150C ("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".) 250C 350C Description Page for details Symbol 4500 Nil 550C X15 With IN-OUT flange *3 P.252 X26 N.C., N.O. auto drain, drain piping type P.253 Thread type Symbol Type Option *4 Nil Ro Symbol Description F G*1 Nil N NPT F Rubber material: FKM Conforms to For medium air pressure (1.6 MPa) ISO1179-1. Drain guide 1/4 female threaded *5 J IN-OUT reversal direction Port size ν Degreasing wash,*6 white vaseline Applicable body size Symbol Size *5 Drain piping and piping for a stop valve such 150C 250C 350C 450C 550C as ball valve are required. 01 1/8 *6 Only body/housing is degreasing washed. 02 1/4 03 3/8 04 1/2 • Auto drain *4 06 3/4 Description Symbol 10 1 Nil Drain cock (Without auto drain) N.C. auto drain

Bracket *2 *3 В *2 Bracket is included, (but not assembled).

Symbol Description

Nil

Accessory

*3 The model with bracket is not available for -X15.

Auto 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.

	F	Н	R	٧
Nil	0		0	0
F		•	0	•
Н				•
R				0
V				

N.O. auto drain

Option Combinations".

*4 Refer to "Drain Exhaust Specifications/

(Only one drain exhaust method can be selected.)

: Not available

D

Options

Symbol F: Rubber material: FKM

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

Symbol R: IN-OUT reversal direction

Air flow in the separator is changed to right to left

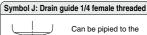
(Air flow direction of the standard: Left to right.)

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

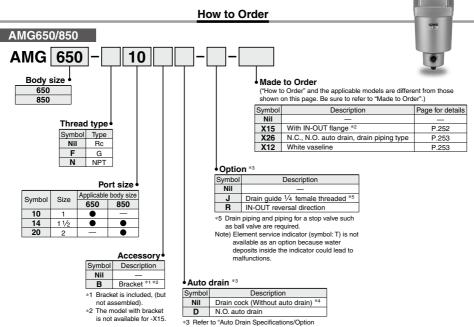
Symbol V: Degreasing wash, white vaseline

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



drain exhaust port. 1/4 female threaded

Water Separator Series AMG



Combinations"

*4 Body size 850 is equipped with a ball valve (Rc

3/8 female threaded). Mount a piping adapter IDF-AP609 (page 245) to the ball valve if NPT 3/8 female threaded is required.

Note) Refer to "How to Order Bowl Assembly" on page 246.

	Applicab	Applicable model					
Auto drain specifi	cations/Option		Auto drain specifications D	J	R	AMG650	
Auto 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

SMC

HAA HAW

IDF IDU

IDFA

IDFB IDH

ID

IDG IDK

AMG

AFF

AMD

AMH

AME

AMF

ZFC

SF

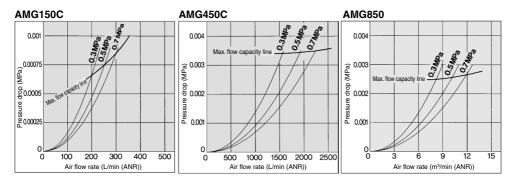
SFD

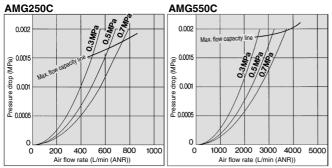
LLB AD

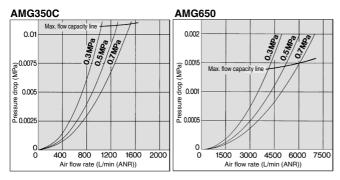
Series AMG

Flow 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.





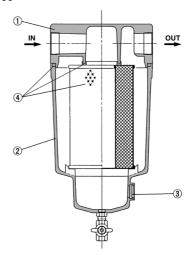


Construction

AMG150C to 550C, AMG650

IN OUT (3

AMG850



Note) Refer to "How to Order Bowl Assembly" on page 246.

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 190 to 192 for details.

Component Parts

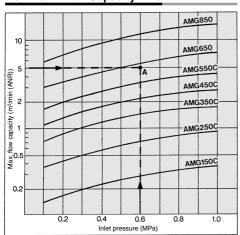
No.	Description	Description Material						
1	Body	Aluminum alloy	Chrome treated Epoxy coating on					
2	Housing	Aluminum alloy	inner surface					
-3	Sight glace	Tempered glass	_					

Replacement Parts

uch	Jiaceilleil	LГa	ເວ							
Nia	Description		Applicable				Model			
INO.	Description	material	model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850
_	Element	Resin,	Except option F	AMG-EL150	AMG-EL250	AMG-EL350	AMG-EL450	AMG-EL550	AMG-EL650	AMG-EL850
4	assembly	others	For option F	AMG-EL150-F	AMG-EL250-F	AMG-EL350-F	AMG-EL450-F	AMG-EL550-F	_	_

- * Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- * Refer to back page 259 for replacement of auto drain.
- * Element assemblies for Made to Order (X12, X15, X26) are same as those for standard (see the above table).

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 interecting point A in the graph.

Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.

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> IDH ID

IDG

IDK AMG

AFF AM

AMD

AMH AME

AMF

ZFC SF

SFD

LLB $\mathsf{AD}\square$

Series AMG

Dimensions

AMG150C to 550C Auto drain C: With auto drain (N.C.) D: With auto drain (N.O.) Р Q Drain cock Gray: N.C. Black: N.O. 0 ø10 One-touch fitting Combination of D: With auto drain (N.O.) and H: For medium air pressure Bracket (Accessory) m OUT Width across flats 17 2 × Port size 1/4 female threaded Note) 23 for AMG250C. O Option I J: Drain guide 1/4 female threaded ш G Drain port Width across 8 Maintenance space flats 24 1/4 female threaded

																							(mm)
Model	Dort sine		0	_	_	F	F	_						Brack	ket re	lated	dime	nsior	ıs				
iviodei	Port size	Α	В	·	ט	_	_	G	Н	ı	J	K	Т	U	L	М	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

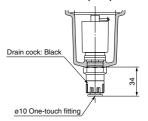
Dimensions

AMG650

180 76 98

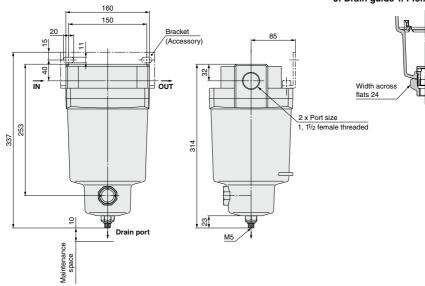
Auto drain

D: With auto drain (N.O.)



Option

J: Drain guide 1/4 female threaded



IDH ID

IDFB

HAA HAW

AT

IDF IDU

IDG

IDK

AMG AFF

AM

ន

1/4 female

threaded

AMD AMH

AME

AMF

ZFC SF

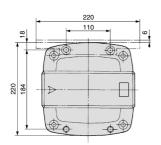
SFD

LLB AD

Series AMG

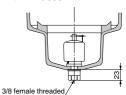
Dimensions

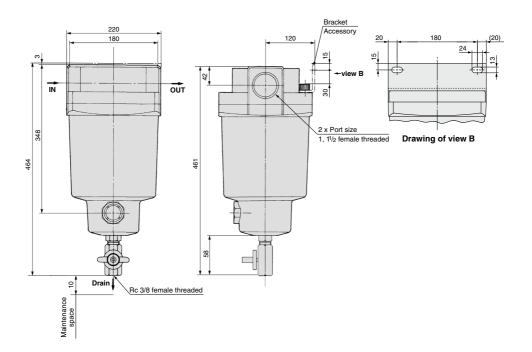
AMG850



Auto drain

D: With auto drain (N.O.) for AMG850





Main Line Filter Series AFF

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 life of precision filter, and prevent trouble with the equipment.

Modular connection is possible with AFF2C to 22C.

(For details, refer to page 244.)



AFF2C to 22C



AFF37B, 75B

Symbol	Symbol
\(\)	\leftarrow
$\overline{}$	× ×

(Drain cock specifications) (Auto drain specifications)



Made to Order (For details, refer to page 250.)

⚠ Caution

Be sure to read before handling.
Refer to front matter 43 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	50(2B) 80(3B) 100(4B) 100(4 JIS 10K FF flange			
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 Characteristics" (page 196) 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 life	2 years (1 year for A type) or when pressure drop reached 0.1 MPa

Note 1) AFF75A to AFF220A: 0.97 MPa

Note 2) With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)

Accessory/For AFF2C to 22C, AFF37B/75B

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

Accessory/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)	50(2B)JIS 10K FF flange 80(3B)JIS 10K FF flange 100(4B)JIS 10K FF flange						
Anchor bolt (3 pcs. each)	AI-2S						

Model Selection

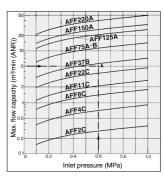
Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

Max. flow capacity: 5 m³/min (ANR)

- 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



HAA HAW

IDF IDU

IDFA

IDH

ID

IDG

IDK AMG

AFF

AM

AMD

AMH

AME

AMF ZFC

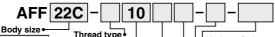
SF

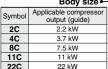
SFD

LLB AD□

How to Order

AFF2C to 22C





Thread type
Symbol Type
Nil Rc
F G*1
N NPT
*1 Conforms to
ISO1179-1.

S

	.,,,,		l .		Made
ool	Type	1		1 1	
101	Type			1 1	("How t
	Rc			1 1	
	nu			1 1	on this

*1	Conforms to ISO1179-1.	
Port size	•	Ч

Cina					
Size	2C	4C	8C	11C	22C
1/8	•				
1/4	•	•			
3/8		•	•		
1/2			•	•	
3/4				•	•
1					•
	1/4 3/8 1/2	1/8 • 1/4 • 3/8 1/2	1/8	2C 4C 8C 1/8	1/8

	Accessory •				
ymbol	Description				
Nil	_				
В	Bracket *2 *3				
Bracket is included,					

Bracket is included, (but not assembled). The model with bracket is not available for -X15 and -X17.

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				Note		0
S								
U	Note			Note				
Т								0
V	0	•	•	0			0	

Note: Only one drain exhaust method can be selected.

0-4---

Made to Order

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

Symbol	Description	Page for details
Nil	1	_
X6	With differential pressure gauge (GD40-2-01)	P.251
X15	With IN-OUT flange *3	P.252
X17	With differential pressure gauge (GD40-2-01) and IN-OUT flange *3	P.252
X26	N.C., N.O. auto drain, drain piping type	P.253

Option *4

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	Degreasing wash,*7 white vaseline

- *5 Drain piping and piping for a stop valve such as ball valve are required.
- *6 Differential pressure gauge is included, (but not assembled).
- *7 Only body/housing is degreasing washed.
- Note) Order "U" if conformity to the EU directive is required.

Auto drain *4

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

*4 Refer to "Drain Exhaust Specifications/ Option Combinations".

(Only one drain exhaust method can be selected.)

Options

Symbol F: Rubber material: FKM

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

Symbol R: IN-OUT reversal direction

Air flow in the separator is changed to right to left.

(Air flow direction of the standard: Left to right.)

Symbol T: With element service indicator



Saturation of the separator can be observed visually. (Element life check)

Symbol V: Degreasing wash, white vaseline

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

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

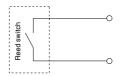
Symbol S: With differential pressure switch (with indicator)



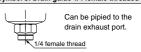
Saturation of the separator can be observed visually or by an electrical signal. (Element life check)

* The rated contact voltage is different from "U".

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



Symbol J: Drain guide 1/4 female threaded



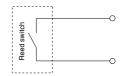
Symbol U: With differential pressure switch (with indicator)



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

* The rated contact voltage is different

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



Main Line Filter Series AFF

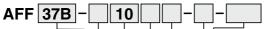
How to Order

AFF37B/75B

Symbol

37B

75B





HAA HAW

AT

IDF IDU

IDFA

IDFB

IDH

ID IDG IDK

AMG

AFF

AM

AMD AMH

AME

ZFC SF SFD

LLB

AD□ GD

Applicable compressor output (guide)
37 kW
75 kW

Thread type
Symbol Type
Nil Rc
F G

Port size

NPT

Cumhal	Size	Applicable body size				
Symbol	Size	37B	75B			
10	1	•	_			
14	11/2		•			
20	2	_	•			

Accessory

Symbol	Description		
Nil			
В	Bracket *1 *2		

- *1 Bracket is included, (but not assembled).
- *2 The model with bracket is not available for -X15 and -X17.

Made to Order

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

Symbol	Description	Page for details
Nil	_	_
X6	With differential pressure gauge (GD40-2-01)	P.251
X37	With differential pressure switch (With indicator, 125 VAC, 30 VDC)	P.251
X15	With IN-OUT flange *2	P.252
X17	With differential pressure gauge (GD40-2-01) and IN-OUT flange *2	P.252
X26	N.C., N.O. auto drain, drain piping type	P.253
X12	White vaseline specifications	P.253

Option *3

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 ball valve are required.

Auto drain *3

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

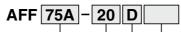
- *3 Refer to "Auto Drain Specifications/Option Combinations"
- *4 Body size 75B is equipped with a ball valve (Rc 3/8 female threaded). Mount a piping adapter IDF-AP609 (page 245) to the ball valve if NPT 3/8 female threaded is required.

Note) Refer to "How to Order Bowl Assembly" on page 246.

Auto Drain Specifications/Option Combinations

Auto Drain Specifications/Option Combinations					○ : Available ☐ : Not available					
Auto duoin	specifications/Option	Auto drain specifications	Option			Applicable model				
Auto drain		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		

AFF75A to 220A



Standard size (Applicable compressor)

Syı	mbol	Compressor output			
7:	5A	75 kW 110 to 125 kW			
12	25A				
15	60A	150 kW			
22	20A	180 to 220 kW			

Port size

0	0:	Applicable body size				
Symbol	Size	75A	125A	150A	220A	
20	50(2B) JIS 10K FF flange	•	_	_	_	
30	80(3B) JIS 10K FF flange	_	•	_	_	
40	100(4B) JIS 10K FF flange	_	_	•	•	

Made to Order

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

Symbo	Description	Page for details
Nil	_	_
X13	Mist separator for high flow rate (Nominal filtration rating: 0.3 μm)	P.254

Accessor

MUUUS	Accessory					
Symbol	Description					
Nil	_					
D	Auto drain (Metal case)					
Р	Auto drain (Resin case)					
G	Pressure gauge					
F	Companion flange					
L	Anchor bolt					

Note) Combination of D and P is not available.

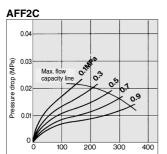


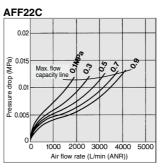
195

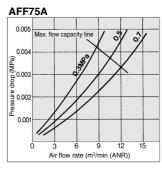
Series AFF

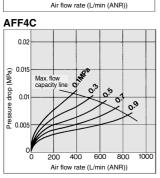
Flow Characteristics (Representative values)/Select the model under the max. flow capacity line. (Element oil saturation)

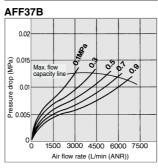
Note) Compressed air over max. flow capacity line in the table below may not meet the specifications of the product.

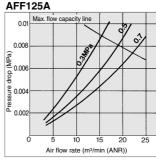


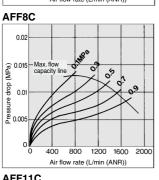


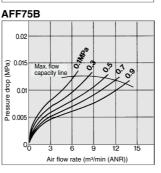


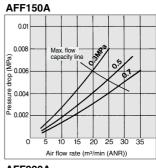


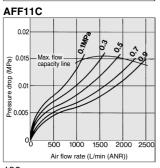


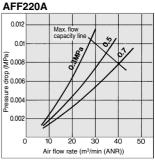






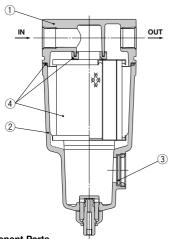






Construction

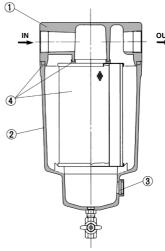
AFF2C to 22C, AFF37B



Component Parts

	No.	Description	Material	Note		
	1	Body	Aluminum alloy	Chrome treated		
	2	Housing	Aluminum alloy	Epoxy coating on inner surface		
- 3		Sight glace	Tempered glass	_		

AFF75B



Note) Refer to "How to Order Bowl Assembly" on page 246.

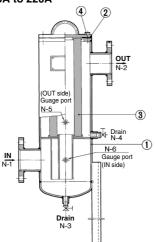
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Please refer to pages 198 through to 200 for details.

Replacement Parts

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

- * Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- * Refer to page 259 for replacement of auto drain.
- * Element assemblies for Made to Order (X6, X12, X15, X17, X26, X37) are same as those for standard (see the above table).

AFF75A to 220A



Component Parts

No.	Description	Material	Note
1	Case	SGP-E, SS400	
2	Cover	SS400	

Replacement Parts

NIo	December		Oh.	AFF75A AFF125A AFF150A AFF22					
INO.	Description	material	AFF75	AFF75A AFF125A	AFF150A	AFF220A			
3	Element	_	1	EC700-003N	EC800-003N	EC900-003N			
4	Seal	NBR	1	AL-33S	AL-34S	AL-35S			

OUT HAA HAW

> AT IDF IDU

IDFA IDFB

IDH

ID IDG

IDK AMG

AFF

AMD

AMH AME

AMF

ZFC

SF

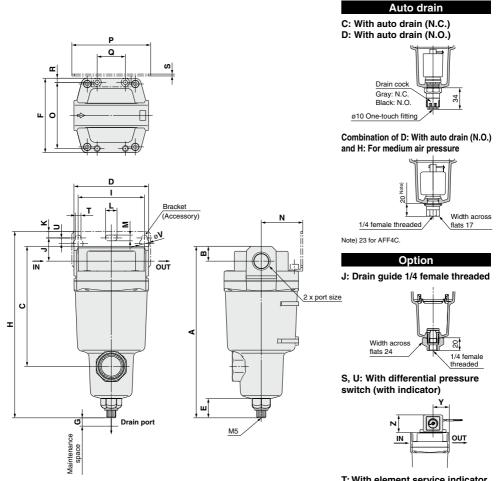
SFD LLB

 $\mathsf{AD}\square$

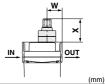
Series AFF

Dimensions

AFF2C to 22C



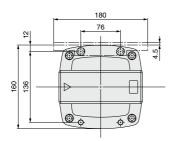
I. WILLI	elelllellt	Sei vice	illulcato



Model	Port size	А	В	С	D	E	F	F G Bracket related dimensions					ser indicato dimer	vice r related	pres switch dimen	ssure related											
									Н	1	J	K	Т	U	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
400																											

Dimensions

AFF37B



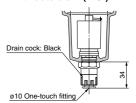
9

Maintenance space

Drain port

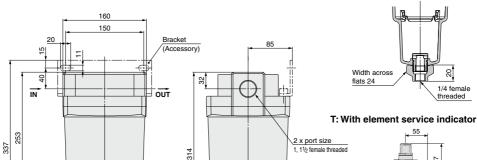
Auto drain

D: With auto drain (N.O.)



Option

J: Drain guide 1/4 female threaded



8

AMH 37

оит

AME AMF

HAA HAW

AT

IDF IDU

IDFA

IDFB

IDH

ID IDG

IDK

AMG

AFF

AM AMD

ZFC SF

SFD LLB

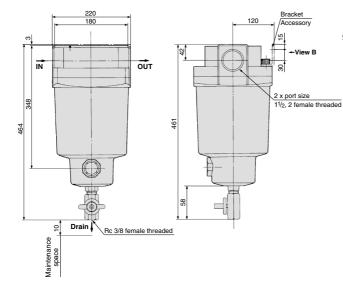
AD□

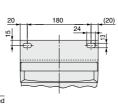
Series AFF

Dimensions

AFF75B



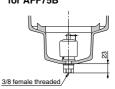




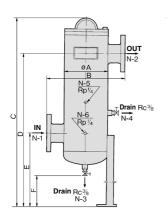
Drawing of view B

Auto drain

D: With auto drain (N.O.) for AFF75B



AFF75A to 220A

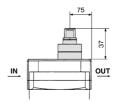


3 x 200 holes For foundation bolt of 330 300 N-4 1N-2 210 Label N-5 N-6

ORIENTATION

Option

T: With element service indicator



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

Mist Separator Series AM



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 244.)



AM150C to 550C

AM650/850





(Drain cock specifications)

(Auto drain specifications)



Model

Model							
Model	AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
Note) Rated flow (L/min (ANR))	300	750	1500	2200	3700	6000	12000
Port size	1/8, 1/4	1/4, 3/8	3/8, 1/2	1/2, 3/4	3/4, 1	1, 11/2	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 Characteristics" (page 204) and "Max. Flow Capacity Line" (page 205) below. Note) Refer to "Made to Order" (page 254) 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 life	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

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 before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air

Preparation Equipment Precautions.

HAW AT

IDF İĎŪ IDFA

IDFB

IDH ID

IDG IDK

> AMG AFF

AM

AMD

AMH AME

AMF

ZFC

SF

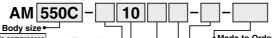
SFD

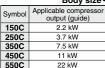
LLB $\mathsf{AD}\square$

^{*2} Oil mist density at 30 mg/m3 (ANR) blown out by compressor.

How to Order

AM150C to 550C





1/8

1/4

3/8

1/2

3/4

Symbol Size

01

02

03

Ω4

06

10 1

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

Syr

١

			ort s	~i~~ *	
			OIL	SIZE	
	pplica				
150C	250C	350C	450C	550C	
•					
•	•				
	•	•			

	Accessory
nbol	Description
lil	-
В	Bracket *2, *3

- *2 Bracket is included. (but not assembled)
- *3 The model with bracket is not available for -X15 and -X17

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				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

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

Symbol	Description	Page for details
Nil	-	_
X6	With differential pressure gauge (GD40-2-01)	P.251
X15	With IN-OUT flange	P.252
X17	With differential pressure gauge (GD40-2-01) and IN-OUT flange *3	P.252
X26	N.C., N.O. auto drain, drain piping type	P.253

Option *4

- 10	•
Symbol	Description
Nil	_
F	Rubber material: FKM
Н	For medium air pressure (1.6 MPa)
J	Drain guide 1/4 female threaded *5
R	IN-OUT reversal direction
S	With differential pressure switch (125 VAC, 30 VDC) *6, Note)
U	With differential pressure switch (30 VDC) *6
Т	Element service indicator
٧	Degreasing wash,*7 white vaseline

- *5 Drain piping and piping for a stop valve such as ball valve are required.
- *6 Differential pressure gauge is included, (but not assembled).
- *7 Only body/housing is degreasing washed.
- Note) Order "U" if conformity to the EU directive is required.

Auto drain *4

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

*4 Refer to "Drain Exhaust Specifications/ Option Combinations". (Only one drain exhaust method can be selected.)

Options

Symbol F: Rubber material: FKM

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

Symbol R: IN-OUT reversal direction

Air flow in the separator is changed to right to left.

(Air flow direction of the standard: Left to right.)

Symbol T: With element service indicator



Saturation of the separator can be observed visually. (Element life check)

Symbol V: Degreasing wash, white vaseline

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

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum

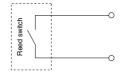
Symbol S: With differential pressure switch (with indicator)



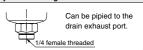
Saturation of the separator can be observed visually or by an electrical signal. (Element life check)

The rated contact voltage is different

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



Symbol J: Drain guide 1/4 female threaded



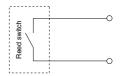
Symbol U: With differential pressure switch (with indicator)



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

The rated contact voltage is different

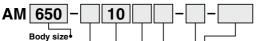
Max. contact capacity: 10 W DC Rated contact voltage (max. operating current): 30 VDC (0.33 A)



Mist Separator Series AM

How to Order

AM650/850





Applicable compressor Symbol output (guide) 650 37 kW 850 75 kW

> Thread type Symbol Type Rc G NPT

		Po	ort size				
Cumbal	Size	Applicable	body size				
Symbol	Size	650	850				
10	1	•	_				
14	1 1/2	•	•				
20	2	_	•				

Accessory

Symbol	Description
Nil	_
В	Bracket *1, *2

- *1 Bracket is included. (but not assembled)
- *2 The model with bracket is not available for -X15 and -X17.

Made to Order

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

Symbol	Description	Page for details
Nil		_
Х6	With differential pressure gauge (GD40-2-01)	P.251
X37	With differential pressure switch (With indicator, 125 VAC, 30 VDC)	P.251
X15	With IN-OUT flange *2	P.252
X17	With differential pressure gauge (GD40-2-01) and IN-OUT flange *2	P.252
X26	N.C., N.O. auto drain, drain piping type	P.253
X12	White vaseline specifications	P.253

Option *3

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 ball valve are required.

♣ Auto drain *3

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

- *3 Refer to "Auto Drain Specifications/Option Combinations".
- *4 Body size 850 is equipped with a ball valve (Rc 3/8 female threaded). Mount a piping adapter IDF-AP609 (page 245) to the ball valve if NPT 3/8 female threaded is required.

Note) Refer to "How to Order Bowl Assembly" on page 246.

Auto Drain Specifications/Option Combinations

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

HAA HAW

AT IDF

İĎŪ IDFA

IDFB IDH

ID

IDG IDK

AMG

AFF

AM

AMD

AMH AME

AMF

ZFC SF

SFD

LLB

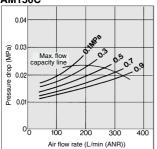
 $\mathsf{AD}\square$ GD

Series AM

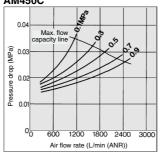
Flow Characteristics (Representative values) /Select the model under the max. flow capacity line. (Element oil saturation)

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

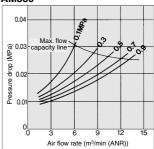
AM150C



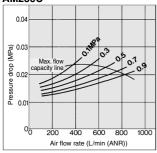
AM450C



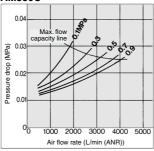
AM850



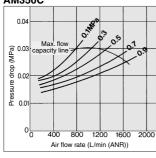
AM250C



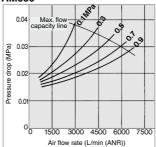
AM550C



AM350C

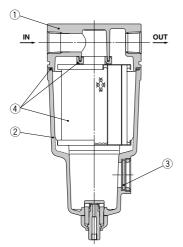


AM650



Construction

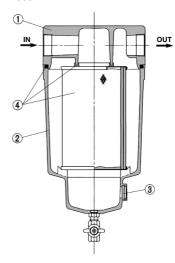
AM150C to 550C, AM650



Component Parts

Γ	No.	Description	Material	Note
	1	Body	Aluminum alloy	Chrome treated
	2	Housing	Aluminum alloy*	Epoxy coating on inner surface
	3	Sight glass	Tempered glass	_

AM850



Note) Refer to "How to Order Bowl Assembly" on page 246.

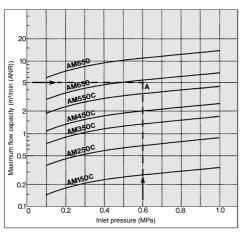
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 206 through to 208 for details.

Replacement Parts

No.	Description	nent Glass fiber, Except op					Model			
No. Description		Materiai	model	odel 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 259 for replacement of auto drain.
- * Element assemblies for Made to Order (X6, X12, X15, X17, X26, X37) are same as those for standard (see the above table)

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

IDH ID

IDG

IDK AMG

AFF

AM AMD

AMH

AMF

ZFC SF

SFD

LLB

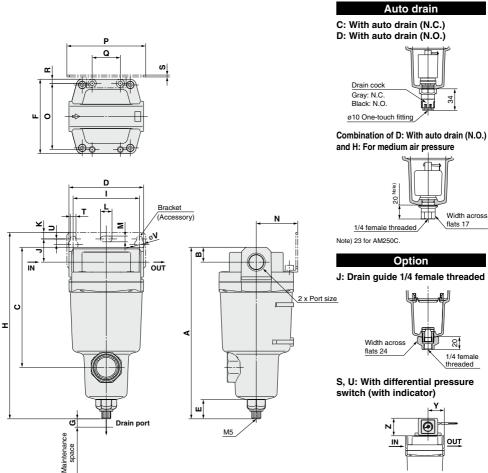
AD□ GD

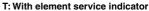
ub

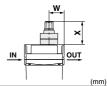
Series AM

Dimensions

AM150C to 550C

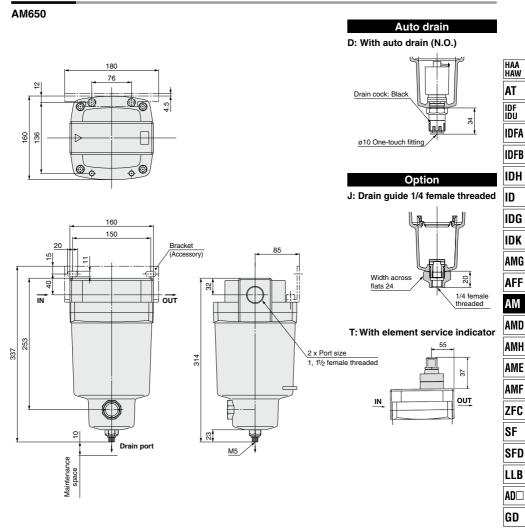






Model	Port size	А	В	С	D	E	F	G		Bracket related dimensions									ser indicato dimer	vice r related	pres switch dimen	ssure related					
									Н	ı	J	K	Т	U	L	М	٧	N	0	Р	Q	R	S	W	Х	Υ	Z
AM150C	1/8, 1/4	158	10	99	63	20	63	10	173	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6	24	37	32	41
AM250C	1/4, 3/8	172	14	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
		•		•																							

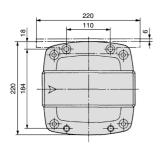
Dimensions

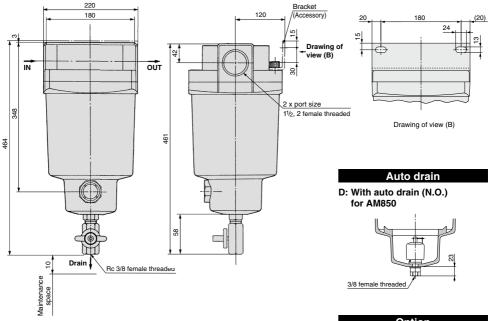


Series AM

Dimensions

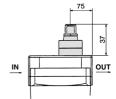
AM850





Option

T: With element service indicator



Micro Mist Separator Series AMD



Can separate and remove aerosol state oil mist in compressed air and remove particles such as carbon or dust of more than 0.01 µm.

Use this product as a pre-filter for compressed air for precision instruments or clean room requiring higher clean air.

Modular connection is possible with AMD150C to 550C.

(For details, refer to page 244.)



AMD150C to 550C AMD650/850



(Drain cock specifications) (Auto drain specifications)



Model							
Model	AMD150C	AMD250C	AMD350C	AMD450C	AMD550C	AMD650	AMD850
Note) Rated flow (L/min (ANR))	200	500	1000	2000	3700	6000	12000
Port size	1/8, 1/4	1/4, 3/8	3/8, 1/2	1/2, 3/4	3/4, 1	1, 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 Characteristics" (page 212) and "Maximum Flow Capacity Line" (page 211).

Model/Free Standing Type

Model	AMD800	AMD900	AMD1000
Rated flow (L/min (ANR))	8000	24000	40000
Port size	50(2B)JIS 10K FF flange	50(2B), 80(3B), 100(4B)JIS 10K FF flange	100(4B), 150(6B)JIS 10K FF flange
Weight (kg)	100	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 fillst defisity at outlet	(Before saturated with oil, less than 0.01 mg/m³ (ANR) ≈0.008 ppm			
Element life	2 years (1 year for flange type)			
Element lile	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) Oil mist density at 30 mg/m3 (ANR) blown out by compressor.

Note 3) AMD800 to AMD1000: 0.97 MPa

Accessory

rioude of y							
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 before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air

Preparation Equipment Precautions.

HAW AT

IDF İĎŪ

IDFA IDFB

IDH

ID

IDG IDK

AMG

AFF AM

AMD AMH

AME

AMF ZFC

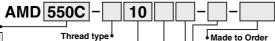
SF

SFD

LLB $\mathsf{AD}\square$

How to Order

AMD150C to 550C





"J" specification)



ISO1179-1. Port size •

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

Accessory

Symbol	Description			
Nil	_			
В	Bracket *2 *3			
2 Bracket is included,				

- (but not assembled) *3 The model with bracket
- is not available for -X15 and -X17.

Option *4

Symbol

X15

X17

Symbol	Description					
Nil	I					
F	Rubber material: FKM					
Н	For medium air pressure (1.6 MPa)					
J	Drain guide 1/4 female thread *5					
R	IN-OUT reversal direction					
S	With differential pressure switch (125 VAC, 30 VDC) *6, Note)					
U	With differential pressure switch (30 VDC) *6					
T	With element service indicator					
V	Degreasing wash,*7 white vaseline					
∗5 Drain	nining and nining for a cton valve cuch as hall valve are required					

("How to Order" and the applicable models are different from those shown

Page for details

P.251

P.252

P.252

P.253

Description

With differential pressure gauge (GD40-2-01)

With differential pressure gauge (GD40-2-01)

on this page. Be sure to refer to "Made to Order".)

With IN-OUT flange *3

and IN-OUT flange *3 X26 N.C., N.O. auto drain, drain piping type

- *6 Differential pressure gauge is included, (but not assembled).
- *7 Only body/housing is degreasing washed.
- Note) Order "U" if conformity to the EU directive is required.

△: N.C. auto drain ("C" specification) is 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
R								
U	Note			Note				
Т				1				0
V	0	•	•	0			0	

Drain Exhaust Specifications/Option Combinations : All types of drain exhaust specifications are available. (including drain guide,

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

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

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

*4 Refer to "Drain Exhaust Specifications/ Option Combinations" (Only one drain exhaust method can be selected.)

Options

Symbol F: Rubber material: FKM

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

Symbol R: IN-OUT reversal direction

Air flow in the separator is changed to right to left.

(Air flow direction of the standard: Left to right.)

Symbol T: With element service indicator



Saturation of the separator can be observed visually. (Element life check)

Symbol V: Degreasing wash, white vaseline

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

Symbol H: For medium air pressure

Can be used up to 1.6 MPa at maximum

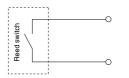
Symbol S: With differential pressure switch (with indicator)



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

The rated contact voltage is different

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



Symbol J: Drain guide 1/4 female threaded



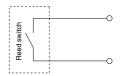
Symbol U: With differential pressure switch (with indicator)



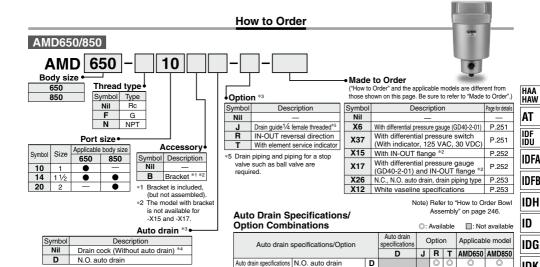
Saturation of the separator can be observed visually or by an electrical signal. (Element life check)

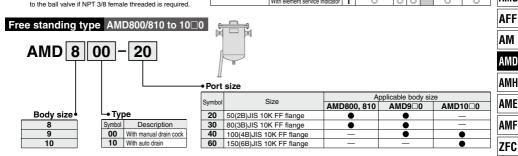
The rated contact voltage is different

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



Micro Mist Separator Series AMD





Option

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

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

*4 Body size 850 is equipped with a ball valve (Rc 3/8 female

threaded). Mount a piping adapter IDF-AP609 (page 245)

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

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

Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.

Maximum Flow Capacity Line

D

J

R

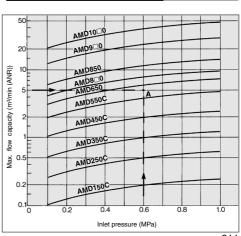
т

0 0

Drain guide 1/4

IN-OUT reversal direction

With element service indicator



211

IDK

AMG

SF

SFD

LLB

 $AD \square$

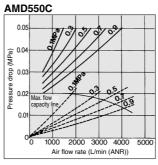
GD

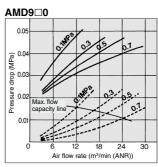
SMC

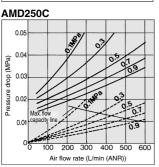
Series AMD

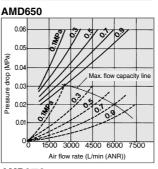
Flow Characteristics (Representative values)/Select the model under the max. flow capacity line. (——Element oil saturation ---- Initial condition)

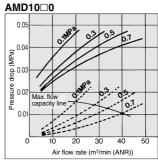
Note) Compressed air over max. flow line in the table below may not meet the specifications of the product.

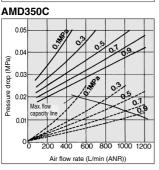


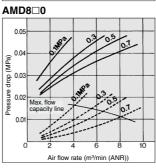


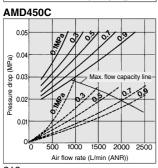


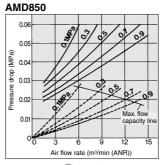






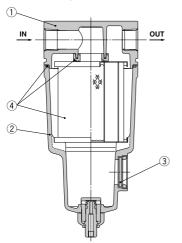






Construction

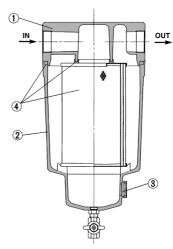
AMD150C to 550C, AMD650



Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Chrome treated
2	Housing	Aluminum alloy	Epoxy coating on inner surface
3	Sight glass	Tempered glass	_

AMD850



Note) Refer to "How to Order Bowl Assembly" on page 246.

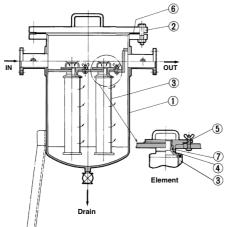
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 214 through to 217 for details.

Replacement Parts

Nia	No. Description Mate		D	Managial	Managial	Managerial	NA-4	Applicable				Model			
INO.			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 259 for replacement of auto drain.
- * Element assemblies for Made to Order (X6, X12, X15, X17, X26, X37) are same as those for standard (see the above table).

AMD80\(\text{\Box}/81\(\text{\D}/9\(\text{\D}0/9\(\text{\D}1/10\(\text{\D}0\)



Component Parts/Material

5 0.	Joinpondit i ai tomatoriai					
No.	Description	Model				
	Description	AMD8□0/9□0/10□0				
1	Filter case	SGP-E, SS400				
2	Cover	SS400				

Re	مام	^~.		-+	D۵	<u> </u>
пe	pıa	cei	nei	ш	Рa	าเร

No. De	Description	Material	Model										
	Description	ivialeriai	AMD8□0	AMD9□0	AMD10□0								
3	Element	_	63174	63174 3 pcs.	63174 5 pcs.								
4	Seal	NBR	63148	63148 3 pcs.	63148 5 pcs.								
5	Seal	NBR	O.D112 x I.D90 x T3	O.D112 x I.D90 x T3 3 pcs.	O.D112 x I.D90 x T3 5 pcs.								
6	Gasket	V#6500	AL-61S	AL-63S	AL-31S								
7	O-ring	NBR	JIS B2401G35 1 pc.	JIS B2401G35 3 pcs.	JIS B2401G35 5 pcs.								

HAA HAW

IDF IDU

IDFA IDFB

IDH ID

IDG IDK

AMG

AFF

AMD AMH

AME

AMF ZFC

SF

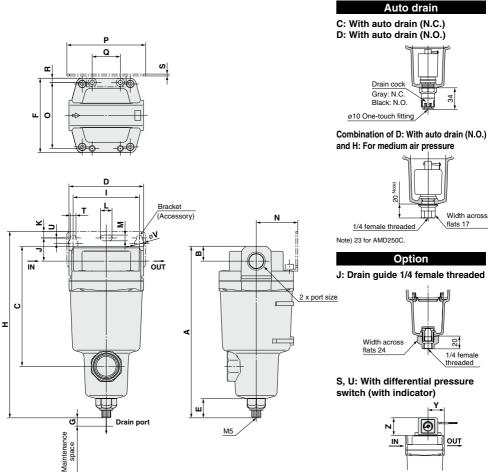
SFD

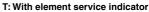
LLB AD

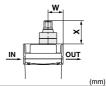
Series AMD

Dimensions

AMD150C to 550C







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

Micro Mist Separator Series AMD

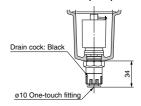
Dimensions

AMD650

961

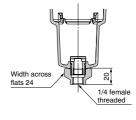
Auto drain

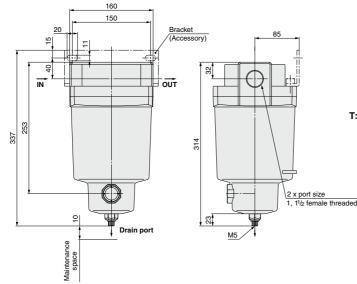
D: With auto drain (N.O.)



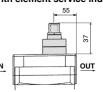
Option

J: Drain guide 1/4 female threaded





T: With element service indicator



AMH AME

HAA HAW

AT

IDF IDU

IDFB

IDH

ID IDG

IDK

AMG

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AM

AMD

AMF

ZFC SF

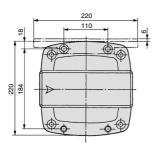
SFD LLB

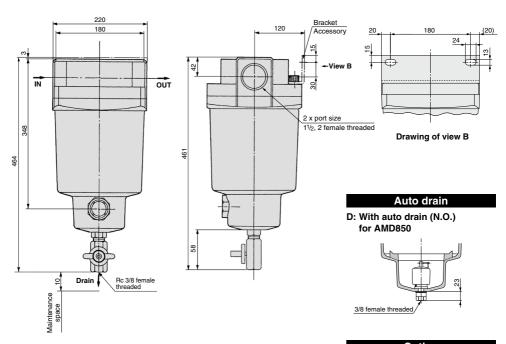
AD□ GD

Series AMD

Dimensions

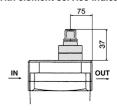
AMD850





Option

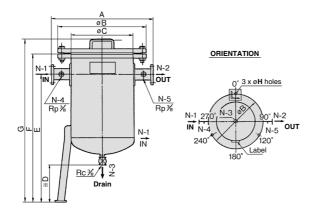
T: With element service indicator



Micro Mist Separator Series AMD

Dimensions

AMD800/810/9 0/10 0



(mm)

										()
Model	Connection (Flange)	Α	øΒ	øC	D	E	F	G	Н	Anchor bolt
AMD8□0	50(2B), 80(3B)JIS 10K FF flange	500	300	200(8B)	300	1300	1430	1520	20	M16 x L400
AMD9□0	50(2B), 80(3B), 100(4B)JIS 10K FF flange	720	560	400	300	1320	1480	1585	24	M20 x L500
AMD10□0	100(4B), 150(6B)JIS 10K FF flange	870	745	550	300	1380	1610	1740	24	M20 x L500

HAA HAW

AT IDF IDU

IDFA

IDFB IDH

ID IDG

IDK

AMG

AFF

AM AMD

AMH

AME

AMF ZFC

SF

SFD

LLB AD

Micro Mist Separator with Pre-filter

Series AMH

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 conventional pneumatic pressure line, AM series + 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 244.)



AMH150C to 550C

AMH650/850





(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 Characteristics" (page 222) 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 sytlet	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 ppm)			
Element life	2 years or when pressure drop reached 0.1 MPa			

- *1 With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)
- *2 Oil mist density at 30 mg/m3 (ANR) blown out by compressor.

Accessory

	Applicable model	AMH150C	AMH250C	AMH350C	AMH450C	AMH550C	AMH650	AMH850
ſ	Bracket assembly	AM DM404	AM-BM102	AM DM100	AM DM104	AM DM105	BM56	BM57
	(with 2 mounting screws)	AIVI-DIVI I U I	AIVI-DIVI IUZ	AIVI-DIVI 1U3	AIVI-DIVI 104	AIVI-DIVI 1UO	DIVIDO	DIVIO

Model Selection

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

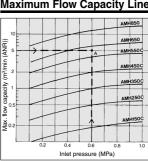
(Example) Inlet pressure: 0.6 MPa Max. flow capacity: 5 m3/min (ANR)

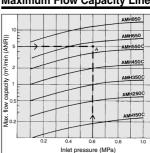
- 1. Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
- 2. The AMH650 is obtained when the max. flow capacity line is above the intersecting point A in the graph.

Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.

Preparation Equipment Precautions.

Maximum Flow Capacity Line





Caution

Be sure to read before handling. Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air

IDF IDU

HAW AT

IDFA IDFB

> IDH ID

IDG

IDK

AMG AFF

AM

AMD

AMH AME

AMF

ZFC SF

SFD

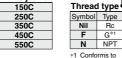
LLB $AD\square$

How to Order

AMH150C to 550C



Accessory Symbol Description Nil



ISO1179-1. Port size •

> В *2 Bracket is included. (but not assembled). *3 The model with bracket is not available for -X15 and -X17.

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

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

Symbol	Description	Page for details
Nil		_
Х6	With differential pressure gauge (GD40-2-01)	P.251
X15	With IN-OUT flange *3	P.252
X17	With differential pressure gauge (GD40-2-01) and IN-OUT flange *3	P.252
X26	N.C., N.O. auto drain, drain piping type	P.253

Option *4

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	Degreasing wash,*7 white vaseline			

- *5 Drain piping and piping for a stop valve such as ball valve are required.
- *6 Differential pressure switch is included, (but not assembled).
- *7 Only body/housing is degreasing washed.
- Note) Order "U" if conformity to the EU directive is required.

Auto drain *4

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

*4 Refer to "Drain Exhaust Specifications/ Ontion Combinations" (Only one drain exhaust method can be selected)

Drain Exhaust Specifications/Option Combinations

- ①: 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				Note		0
S								
U	Note			Note				
Т								0
V	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

Air flow in the separator is changed to right to left.

(Air flow direction of the standard: Left to right.)

Symbol T: With element service indicator



Saturation of the separator can be observed visually. (Element life check)

Symbol V: Degreasing wash, white vaseline

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

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum

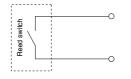
Symbol S: With differential pressure switch (with indicator)



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

The rated contact voltage is different

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



Symbol J: Drain guide 1/4 female threaded



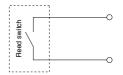
Symbol U: With differential pressure switch (with indicator)



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

The rated contact voltage is different

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



Micro Mist Separator with Pre-filter Series AMH

How to Order



AMH 650 Body size 650 850

AMH650/850

Thread type Symbol Type Nil Rc G

N

NPT

Port size

10

Symbol	Size	Applicable body size			
Symbol	Size	650	850		
10	1	•	_		
14	1 1/2	•	•		
20	2	_	•		

Accessory Description

Symbol Nil В Bracket *1 *2 *1 Bracket is included.

- (but not assembled).
- *2 The model with bracket is not available for -X15 and -X17.

Made to Order

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

Symbol	Description	Page for details
Nil	-	_
X6	With differential pressure gauge (GD40-2-01)	P.251
X37	With differential pressure switch (With indicator, 125 VAC, 30 VDC)	P.251
X15	With IN-OUT flange *2	P.252
X17	With differential pressure gauge (GD40-2-01) and IN-OUT flange *2	P.252
X26	N.C., N.O. auto drain, drain piping type	P.253
X12	White vaseline specifications	P.253

Option *3

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 ball valve are required.

♣ Auto drain *3

Symbol	Description
Nil	Drain cock (Without auto drain) *
D	N.O. auto drain
+2 Pofor	to "Auto Drain Specifications/Option

- Combinations".
- *4 Body size 850 is equipped with a ball valve (Rc3/8 female threaded). Mount a piping adapter IDF-AP609 (page 245) to the ball valve if NPT3/8 female threaded is required.

Note) Refer to "How to Order Bowl Assembly" on page 246.

Auto Duelo Considirations/Outlan Combinations

Auto Drain Specifications/Option Combinations ©: Available :: Not availa													
Auto duoin	specifications/Option		Auto drain specifications		Option		Applicable model						
Auto drain	specifications/Option		D	J	R	Т	AMH650	AMH850					
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					

HAA HAW AT

IDF

İĎŪ IDFA

> IDFB IDH

ID

IDG IDK

AMG

AFF

AM

AMD AMH

AME

AMF

ZFC

SF

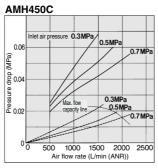
SFD

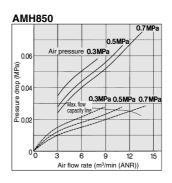
LLB $\mathsf{AD}\square$

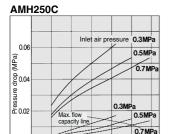
Series AMH

Flow 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.

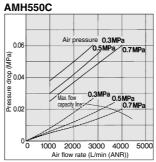


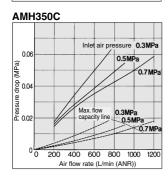


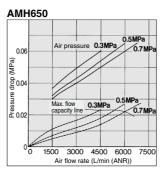


200 300 400 500

Air flow rate (L/min (ANR))



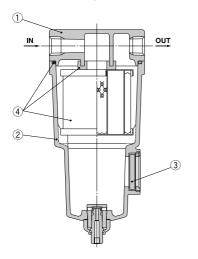




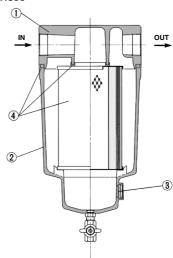
Micro Mist Separator with Pre-filter Series ANH

Construction

AMH150C to 550C, AMH650



AMH850



Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Chrome treated
2	Housing	Aluminum alloy	Epoxy coating on inner surface
3	Sight glass	Tempered glass	_

Note) Refer to "How to Order Bowl Assembly" on page 246.

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 224 through to 226 for details.

Replacement Parts

Nia	Description	Motorial	Applicable				Model			
INO.		Material	model	AMH150C	AMH250C	AMH350C	AMH450C	AMH550C	AMH650	AMH850
_	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 259 for replacement of auto drain.
- * Element assemblies for Made to Order (X6, X12, X15, X17, X20, X26, X37) are same as those for standard (see the above table).

HAA HAW

AT IDF IDU

IDFA IDFB

IDH ID

IDG

IDK AMG

AFF

AM AMD

AMH

AME AMF

ZFC

SF

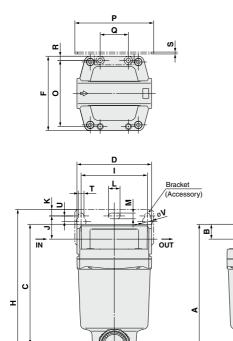
SFD LLB

AD.

Series AMH

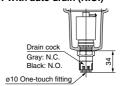
Dimensions

AMH150C to 550C

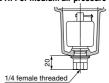


Auto drain

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

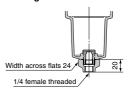


Combination of D: With auto drain (N.O.) and H: For medium air pressure



Option

J: Drain guide 1/4 female threaded



2 x port size

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



T: With element service indicator



1m	m

Model	Port size	Α	В	С	D	E	F	G		Bracket related dimensions										sen	r related	pres switch dimen	sure related				
									Н	1	J	K	Т	U	L	М	٧	N	0	Р	Q	R	s	W	Х	Υ	Z
AMH150C	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
AMH250C	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
AMH350C	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
AMH450C	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
AMH550C	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
00.4	•	•																				•					_

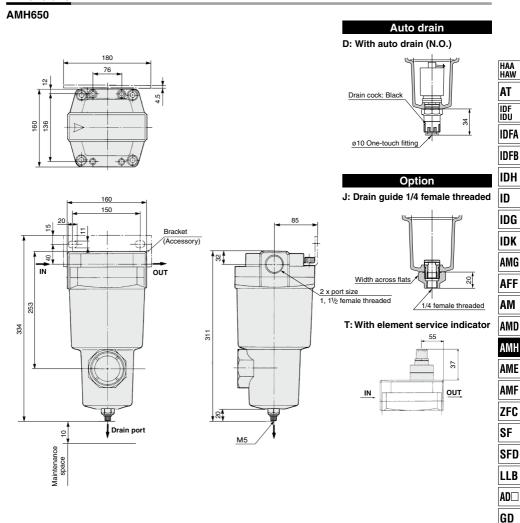
ш

Drain port

G

Maintenance space

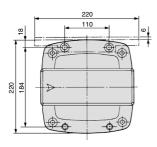
Dimensions

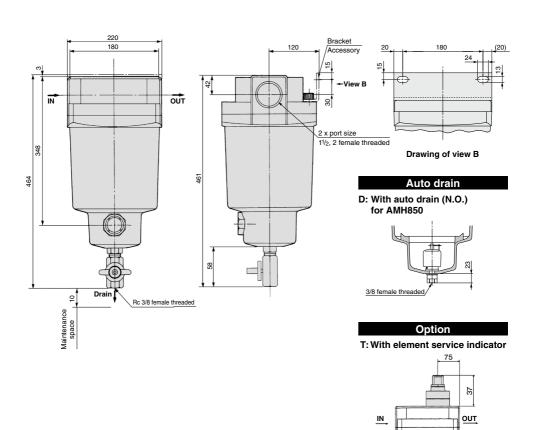


Series AMH

Dimensions

AMH850





Super Mist Separator Series AME

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.

Indicates the filter element life by a color change. Accordingly, the replacement time can be judged visually. (A red color spot indicates the replacement time.)

By all means the "AM" series should be used as a pre-filter.

Modular connection is possible with AME150C to 550C. (For details, refer to page 244.)



AME150C to 350C AME450C/550C





AME650/850



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 Characteristics" and "Maximum Flow Capacity Line" (page 230).

Specifications

Specifications	
Fluid	Compressed air
Max. operating pressure	1.0 MPa
Min. operating pressure	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5 to 60°C
Filtration rating	0.01 μm (Filtration efficiency: 99.9%)
Cleanliness at outlet	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)
	Element color indicator (Replace the element when a red color spot occurred on the surface.)
Element life	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.

Accessory

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 before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

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AMH AME

AMF

ZFC SF

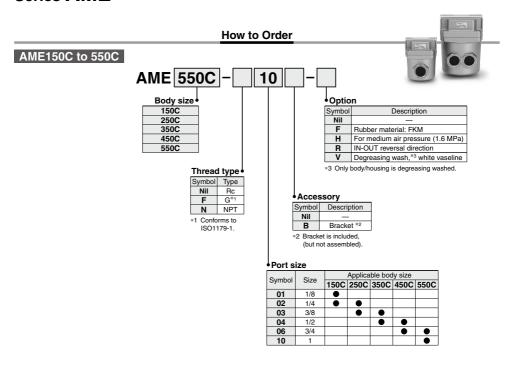
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227

Series AME



Options

Symbol F: Rubber material: FKM

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

Symbol V: Degreasing wash, white vaseline

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

Symbol H: For medium air pressure (1.6 MPa)

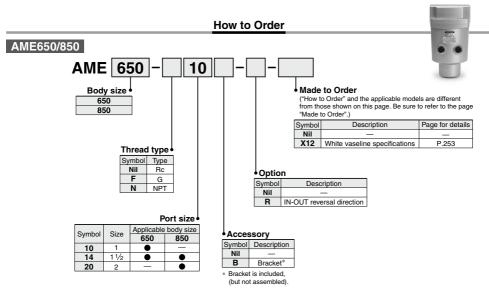
Can be used up to 1.6 MPa at maximum.

Symbol R: IN-OUT reversal direction

Air flow in the separator is changed to right to left.

(Air flow direction of the standard: Left to right.)

Super Mist Separator Series AME



Note) Refer to "How to Order Bowl Assembly" on page 246.

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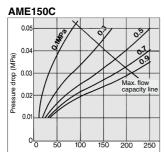
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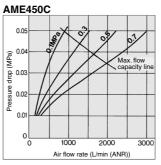
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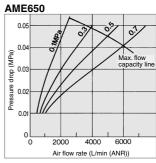
Series AME

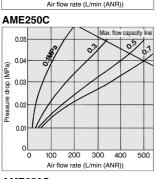
Flow Characteristics (Representative values) /Select the model under the max. flow capacity line. (Element initial condition)

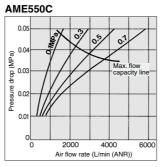
Note) Compressed air over max. flow capacity line in the table below may not meet the specifications of the product.

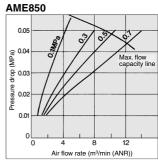


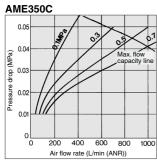












Maximum Flow Capacity Line

Model Selection

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

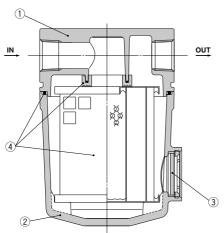
Max. flow capacity: 5 m3/min (ANR)

- Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
- The AME650 is obtained when the max. flow capacity line is above the intersecting point A in the graph.

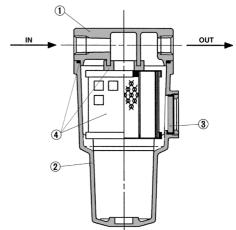
Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.

Construction

AME150C to 550C



AME650/850



Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Chrome treated
2	Housing	Aluminum alloy	Epoxy coating on inner surface
3	Sight glass	Tempered glass	_

Note) Refer to "How to Order Bowl Assembly" on page 246.

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 232 through to 234 for details.

Replacement Parts

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

* Element assembly: With gasket (1 pc.) and O-ring (1 pc.)

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AMF ZFC

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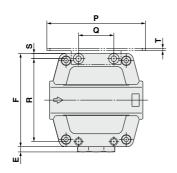
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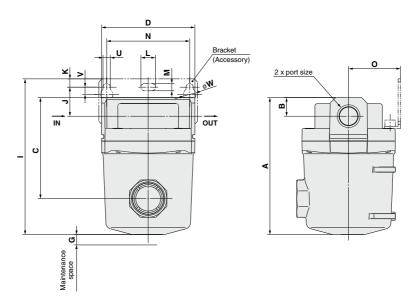
^{*} Element assemblies for Made to Order (X12, X20) are same as those for standard (see the above table).

Series AME

Dimensions

AME150C to 350C

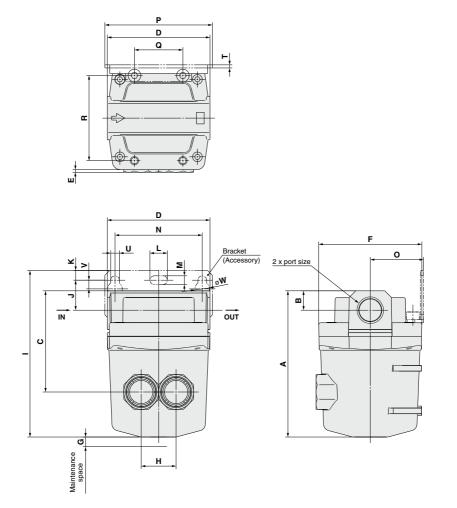




																							(mm)
Model	Port size		В	_	D	_	_	G					Br	acke	t relat	ed di	mens	ions					
Model	Port Size	A	-	٦	יי	-	-	٩	ı	N	J	K	U	٧	L	М	W	0	Р	Q	R	S	Т
AME150C	1/8, 1/4	83	10	54	63	7.5	63	10	99	56	20	5	6	6	12	6	10	35	70	26	54	4.5	1.6
AME250C	1/4, 3/8	103	14	73	76	5	76	10	121	66	24	8	6	6	12	6	10	40	80	28	66	5	2
AME350C	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)
Model	Dort size	_	ь	_	_	_	_	G	ш					Bra	cket	relate	d din	nensi	ons				
	Port size	_ A	-	-	٦,	-	-	٩	п	- 1	N	J	K	U	V	L	М	W	0	Р	Q	R	Т
AME450C	1/2, 3/4	151	20	105	106	3	106	10	36	172	90	31	10	9	9	18	9	15	55	111	50	88	3.2
AME550C	3/4. 1	187	24	130	122	3	122	15	44	206	100	33	10	9	9	18	9	15	65	126	60	102	3.2

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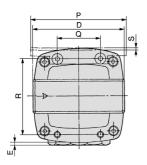
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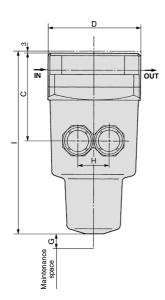
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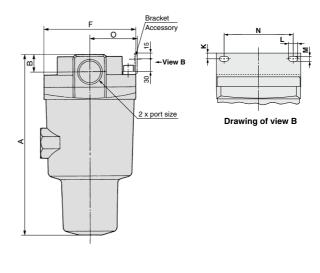
Series AME

Dimensions

AME650/850







																				(mm)
Model	Port size		ь	_	_	_	_	0	ш				Bra	cket re	lated d	limensi	ons			
	FUIT SIZE	_ ^	В	C	ן ט	=		G	п	1	J	K	L	M	N	0	P	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 Series AMF

RoHS

Efficiently can remove odor in compressed air with an activated carbon element. The unit is designed for use in the area such as a clean room where odors must be avoided.

Can remove odor and gas ingredients in compressed air. Activated carbon element with large filtration area.

Easy replacement of elements.

Modular connection is possible with AMF150C to 550C. (For details, refer to page 244.)



AMF150C to 350C AMF450C/550C



AMF650/850





Model							
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 Characteristics" (page 238) and "Maximum Flow Capacity Line" (page 237).

Model/Free Standing Type

Model	AMF800	AMF900	AMF1000
Rated flow (L/min (ANR))	8000	24000	40000
Port size	50 (2B) JIS 10K FF flange	50 (2B), 80 (3B),100 (4B) JIS 10K FF flange	100 (4B),150 (6B) JIS 10K FF flange
Weight (kg)	90	200	410

Specifications

Fluid	Compressed air
Max. operating pressure	1.0 MPa Note)
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 smell oil on the outlet side.
Element life	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 represents the present of the pressure of

Note) AMF800 to AMF1000: 0.97 MPa

Accessory (Option)

Accessory (Opt	1011)						
Applicable model	AMF150C	AMF250C	AMF350C	AMF450C	AMF550C	AMF650	AMF850
Bracket assembly (with 2 mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57

Caution

Be sure to read before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

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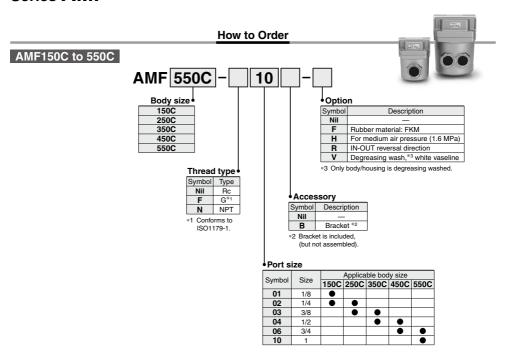
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Series AMF



Options

Symbol F: Rubber material: FKM

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

Symbol V: Degreasing wash, white vaseline

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

Symbol H: For medium air pressure (1.6 MPa)

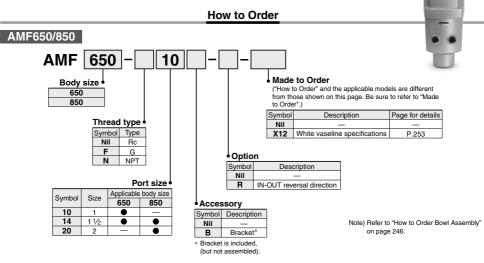
Can be used up to 1.6 MPa at maximum.

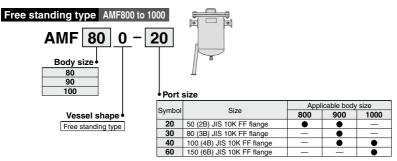
Symbol R: IN-OUT reversal direction

Air flow in the separator is changed to right to left.

(Air flow direction of the standard: Left to right.)

Odor Removal Filter Series AMF





Model Selection

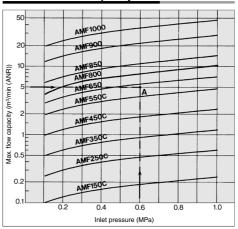
Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

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



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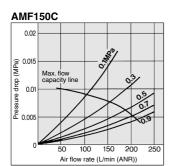
SFD

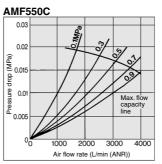
LLB AD

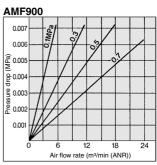
Series AMF

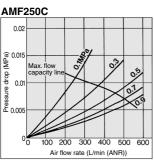
Flow Characteristics (Representative values)/Select the model under the max. flow capacity line. (Element initial condition)

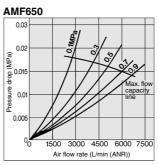
Note) Compressed air over max. flow line in the table below may not meet the specifications of the product.

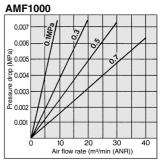


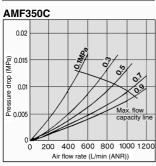


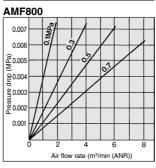


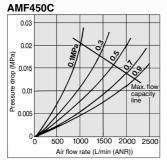


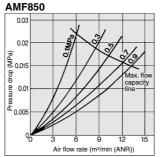






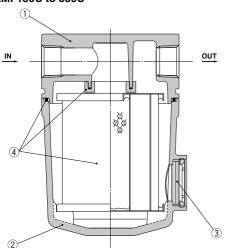




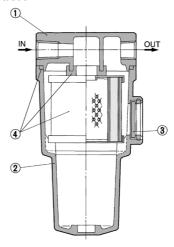


Construction

AMF150C to 550C



AMF650/850



Component Parts

		••	
No.	Description	Material	Note
1	Body	Aluminum alloy	Chrome treated
2	Housing	Aluminum alloy	Epoxy coating on inner surface
3	Sight glass	Tempered glass	_

Note) Refer to "How to Order Bowl Assembly" on page 246.

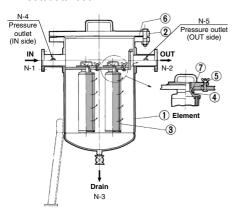
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 240 to 243 for details.

Replacement Parts

No	. Description	Motorial	Applicable				Model			
INC	. 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	_	
_		0111010	1 or option	7 HVII ELIGO	7 HVII ELEGO I	7 WHI E2000 I	7 WHI EE 100 1	7 WHI E2000 I		

- * Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- * Element assemblies for Made to Order (X12, X20) are same as those for standard (see the above table).

AMF800/900/1000



Component Parts/Material

No.	Description	Model
NO.	Description	AMF800/900/1000
1	Filter case	SGP-E: SS400
2	Cover	SS400

Replacement Parts

Na	Description	Material		Model	
INO.	Description	Material	AMF800	AMF900	AMF1000
3	Element	_	63271	63271 3 pcs.	63271 5 pcs.
4	Seal	NBR	63148	63148 3 pcs.	63148 5 pcs.
5	Seal	NBR	O.D112 x I.D90 x T3 1 pc.	O.D112 x I.D90 x T3 3 pcs.	O.D112 x I.D90 x T3 5 pcs.
6	Gasket	V#6500	AL-61S	AL-63S 3 pcs.	AL-31S
7	O-ring	NBR	JIS B2401G35 1 pc.	JIS B2401G35 3 pcs.	JIS B2401G35 5 pcs.

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AMF

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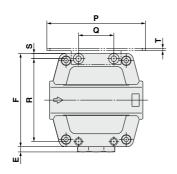
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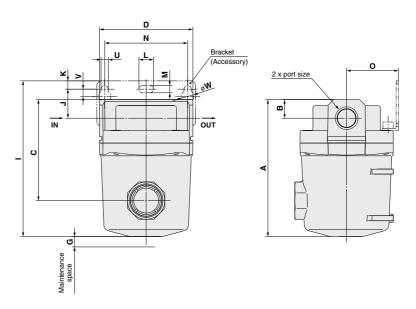
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Series AMF

Dimensions

AMF150C to 350C

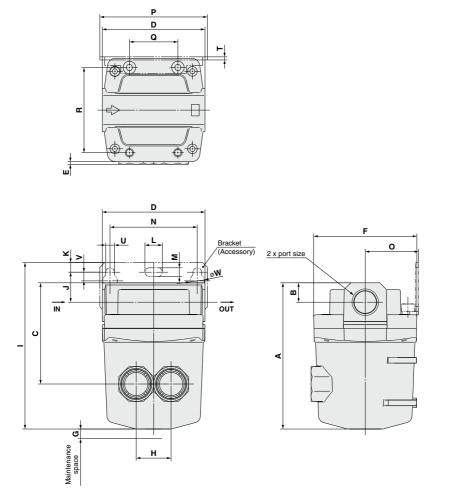




																							(mm)
Model	Port size	_	В	_	D	_	_	G					Br	acke	t rela	ed di	mens	ions					
Model	Port Size	A	-	٦	יי	-	-	٩	ı	N	J	K	U	٧	L	М	W	0	Р	Q	R	s	Т
AMF150C	1/8, 1/4	83	10	54	63	7.5	63	10	99	56	20	5	6	6	12	6	10	35	70	26	54	4.5	1.6
AMF250C	1/4, 3/8	103	14	73	76	5	76	10	121	66	24	8	6	6	12	6	10	40	80	28	66	5	2
AMF350C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



																							(mm)		
Madal	Dort size	_	В	_	D	_	_	G	ш					Bra	cket	relate	d din	nensi	ons						
	Port size	ort size A	А	A	-	١٠	וטו	-	_ F	ď	п	- 1	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		

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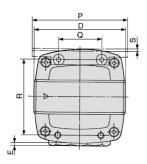
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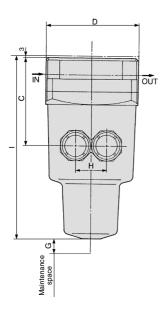
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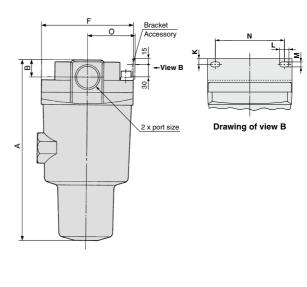
Series AMF

Dimensions

AMF650/850





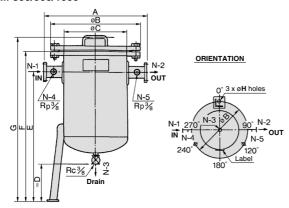


																			(mm)
Model	Model Port size A B C D E F G H Bracket related dimensions																		
wodei	Port size	A	Р	٠.	ט			G	п	ı	K	L	M	N	0	Р	Q	R	S
AMF650	1, 11/2	291	32	167	160	_	160	10	66	314	15	20	11	150	85	180	76	136	4.5
AMF850	11/2, 2	403	42	235	220	_	220	10	96	406	15	24	13	180	120	220	110	184	6

Odor Removal Filter Series AMF

Dimensions

AMF800/900/1000



										(mm)
Model	Connection (Flange)	Α	øΒ	øС	D	E	F	G	Н	Anchor bolt
AMF800	50 (2B) JIS 10K FF flange	500	330	200(8B)	300	1070	1200	1290	20	M16 x L400
AMF900	50 (2B), 80 (3B), 100 (4B) JIS 10K FF flange	720	560	400	300	1070	1230	1335	24	M20 x L500
AMF1000	100 (4B), 150 (6B) JIS 10K FF flange	870	745	550	300	1090	1320	1450	24	M20 x L500

HAA HAW

AT IDF IDU

IDFA

IDFB IDH

ID

IDG

IDK AMG

AFF

AM

AMD AMH

AME

AMF

ZFC

SF

SFD LLB

AD□ GD

Optional Accessories

Spacer for Modular Connection

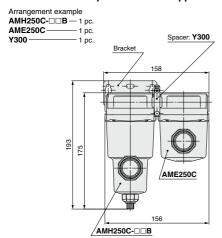
Select a spacer from those listed below when combining modular type AFF2C to 22C, AM \square 150C to 550C. The spacer must be ordered separately.

(Note: Spacer with bracket (Y200T to Y600T) cannot be used.)

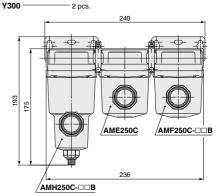
⚠ Caution

- 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 more.
- As a guideline for the number of brackets, one bracket should be mounted for every 2 products.

Combination examples of modular applicable products



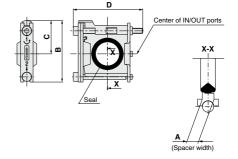




Spacer



Model	Α	В	С	D	Model
Y200	3	35.5	18.5	48	AFF2C, AM□150C
Y300	4	47	26	59	AFF4C, AM□250C
Y400	5	57	31	65	AFF8C, AM□350C
Y500	5	61	33	75	AFF11C, AM□450C
Y600	6	75.5	41	86	AFF22C, AM□550C

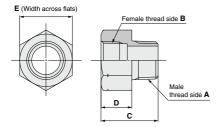


Replacement Parts

Description	Motorial			Part no.		
Description	Material	Y200	Y300	Y400	Y500	Y600
Seal	HNBR	Y200P-061S	Y300P-060S	Y400P-060S	Y500P-060S	Y600P-060S

Optional Accessory

Piping Adapter



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

HAA HAW

AT IDF IDU

IDFA

IDFB IDH

ID

IDG

IDK Amg

AFF

AM AMD

AMH

AME

AMF

ZFC

SF

SFD

LLB AD

Bowl Assembly

$AFF-CA\square/AM\square-CA\square$

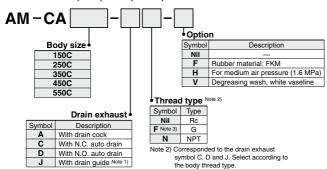


Bowl Assembly

Bowl assembly for the AFF and AM series can be replaced without removing the main body from piping if the drain exhaust specification is to be changed from the drain cock type to the auto drain type or if the bowl has been damaged.

How to Order Bowl Assembly

■ AFF2C to 22C, AM, AMD, AMH, AMG150C to 550C



Note 1) Drain piping and piping for a stop valve such as a ball valve are required.

Note 3) Not corresponded to the drain exhaust symbol C and D. Select no symbol when the body thread symbol is F.

Applicable Model

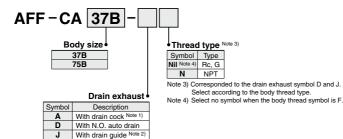
Bowl assembly model	Applicable model
AM-CA150C	AFF2C, AM150C, AMD150C, AMH150C, AMG150C
AM-CA250C	AFF4C, AM250C, AMD250C, AMH250C, AMG250C
AM-CA350C	AFF8C, AM350C, AMD350C, AMH350C, AMG350C
AM-CA450C	AFF11C, AM450C, AMD450C, AMH450C, AMG450C
AM-CA550C	AFF22C, AM550C, AMD550C, AMH550C, AMG550C

Auto Drain Specifications/ Option Combinations

△: Plural options cannot be selected. (i.e. Combinations such as C-FV, D-FHV are not possible.)

Symbol	F	Н	V
Α	0	0	0
С	Δ		Δ
D	Δ		Δ
J	0	0	0

■ AFF37B/75B



Note 1) Body size 75B is equipped with a ball valve (Rc 3/8 female threaded).

Mount a piping adapter IDF-AP609 (page 245) to the ball valve if NPT 3/8 female threaded is required.

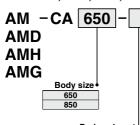
Note 2) Drain piping and piping for a stop valve such as a ball valve are required. For body size 75B, substitute with a ball valve. (symbol: A)



Bowl Assembly AFF-CA AM -CA

How to Order Bowl Assembly

■ Series AM, AMD, AMH, AMG



Note 3) Corresponded to the drain exhaust symbol D and J. Select according to the body thread type.

Note 4) Select no symbol when the body thread symbol is F.

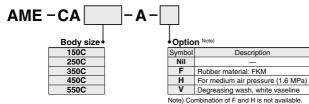
Drain exhaust

Symbol	Description
Α	With drain cock Note 1)
D	With N.O. auto drain
J	With drain guide Note 2)

Note 1) Body size 850 is equipped with a ball valve (Rc 3/8 female threaded). Mount a piping adapter IDF-AP609 (page 245) to the ball valve if NPT 3/8 female threaded is required. Note 2) Drain piping and piping for a stop valve such as a ball valve are required.

For body size 850, substitute with a ball valve, (symbol: A)

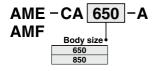
■ AME, AMF150C to 550C



Applicable Model

Bowl assembly model	Applicable model
AME-CA150C	AME150C, AMF150C
AME-CA250C	AME250C, AMF250C
AME-CA350C	AME350C, AMF350C
AME-CA450C	AME450C, AMF450C
AME-CA550C	AME550C, AMF550C

■ AME. AMF650/850



HAA HAW

AT

IDFA

IDFB

IDH ID

IDG

IDK

AMG

AFF AM

AMD

AMH AME

AMF

ZFC

SF

SFD

LLB AD

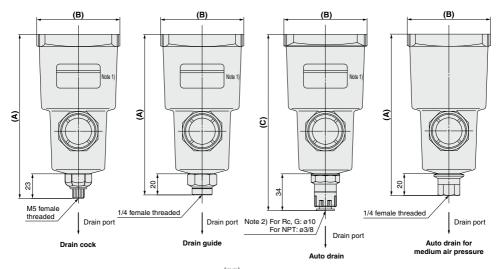
GD

SMC

$AFF-CA\square/AM\square-CA\square$

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

Size: AFF2C to 22C, AFF37B, AM□150C to 550C, AM□650



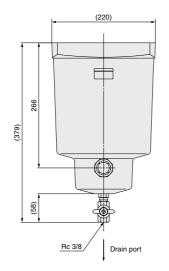
				(mm	
Series AFF	Series AM, AMD, AMG, AMH	Α	В	С	
Size	Size	_ ^	ь	٦	
2C	150C	137	63	148	
4C	250C	142	76	153	
8C	350C	165	90	176	
11C	450C	181	106	192	
22C	550C	205	122	216	
37B	650	248	160	259	

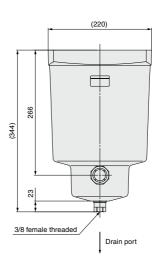
Note 1) Model no. labels are not affixed to the AM-CA150C to 550C. Note 2) Select according to the body thread type.

Applicable tubing size for One-touch fitting

Rc, G: ø10 NPT: ø3/8 inch

Size: AFF75B, AM□850

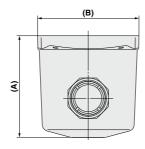




Bowl Assembly AFF-CA AM -CA

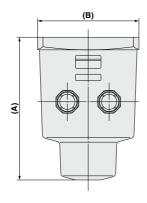
Dimensions: Series AME, AMF

■ AME150C to 550C, AMF150C to 550C



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

■ AME650/850, AMF650/850



		(mm)	
Series AME, AMF	Α	В	
Size	_ ^_	В	
650	225	160	
850	319	120	

HAA HAW

AT IDF IDU

IDFA

IDFB

IDH

ID IDG

IDK

AMG

AFF

AM

AMD

AMH

AME AMF

ZFC

SF SFD

LLB

AD□ GD

Made to Order/Special Specifications Please consult with SMC for detailed specifications, size and delivery.



Made to Order

Contents		Applicable model						Reference	
Contents	Symbol	AFF	AM	AMD	AME	AMF	AMG	АМН	page
1. With Differential Pressure Gauge (GD40-2-01)	Х6	•	•	•	_	_	_	•	P.251
With Differential Pressure Switch (With Indicator)	X37	•	•	•	_	_	_	•	P.251
3. With IN-OUT Flange	X15	•	•	•	_	_	•	•	D OFO
4. With Pressure Differential Gauge (GD40-2-01), IN-OUT Flange	X17	•	•	•	_	_	_	•	P.252
5. N.C., N.O. Auto Drain, Drain Piping Type	X26	•	•	•	_	_	•	•	P.253
6. White Vaseline Specifications	X12	•	•	•	•	•	•	•	1 .233
7. Mist Separator for High Flow Rate (0.3 μm)	X13	•		_			_	_	P.254

Special Specifications

Contents		Applicable model						
		АМ	AMD	AME	AMF	AMG	АМН	page
Clean Series (10-Series)	•	•	•	•	•	_	•	D OFF
Copper-free*, Fluorine-free (20-Series)	•	•	_	_	_	•	_	P.255

^{*} The exposed exterior is copper free



Made to Order Specifications 1

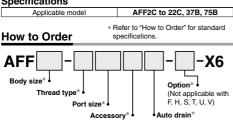


Please consult with SMC for detailed specifications, size and delivery.

1. With Differential Pressure Gauge (GD40-2-01)

A differential pressure gauge that keeps track of the filter life is installed on the filter itself. This facilitates piping and achieves a compact

Specifications

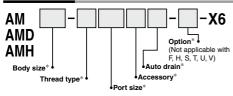


Specifications

Applicable	AM150C to 550C, 650, 850, AMD150C to 550C, 650, 850,
model	AMH150C to 550C, 650, 850

How to Order

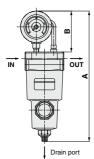
Refer to "How to Order" for standard specifications.



Note) • The AMG series is not applicable since water drops could ingress inside its differential pressure gauge, resulting in malfunction or damage to the product

· Cannot be mounted to the AME and AMF series. (It affects the cleanliness at the outlet.)

Dimensions



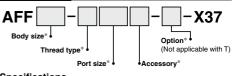
	,			(mm)
Series AFF	Series AM, AMD, AMH	Don't aller	Α	В
Size	Size	Port size	A	_ B
2C	150C	1/8, 1/4	242	80
4C	250C	1/4, 3/8	255	80
8C	350C	3/8, 1/2	287	80
11C	450C	1/2, 3/4	308	80
22C	550C	3/4, 1	342	80
37B	650	1, 1 ½	394	80
75B	850	11/2.2	541	80

2. With Differential Pressure Switch (With indicator) (125 VAC, 30 VDC)

Allows visual confirmation of differential pressure which indicates the element life. The built-in contact enables remote control.

* Place an order separately if conformity to the EU directive is required.

Specifications	
Applicable model	AFF37B, 75B
How to Order	 Refer to "How to Order" for standard pecifications.
AFF -	

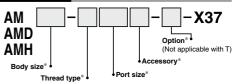


Specifications

Applicable model	AM650, 850, AMD650, 850, AMH650, 850
------------------	---

How to Order

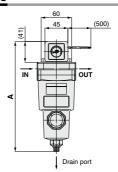
* Refer to "How to Order" for standard specifications.



Note) • The AMG series is not applicable since water drops could ingress inside its differential pressure gauge, resulting in malfunction or damage to the product.

· Cannot be mounted to the AME and AMF series. (It affects the cleanliness at the outlet)

Dimensions



			(mm)
Series AFF	Series AM, AMD, AMH	Doub ele-	Α
Size	Size	Port size	Α
37B	650	1, 1 1/2	355
75B	850	11/2,2	501

SMC

251

AΤ

IDF IDU

IDFA IDFB

IDH ID

IDG

IDK AMG

AFE

AMAMD

AMH

AME

AMF

ZFC SF

SFD

LLB $AD \square$

Made to Order Specifications 2

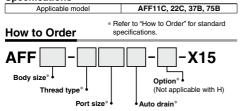


Please consult with SMC for detailed specifications, size and delivery.

3. With IN-OUT Flange

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

Specifications

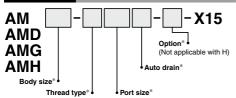


Specifications

Applicable	AM450C, 550C, 650, 850, AMD450C, 550C, 650, 850,
model	AMH450C, 550C, 650, 850, AMG450C, 550C, 650, 850

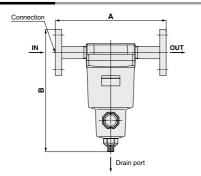
How to Order

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



Note) • Cannot be mounted to the AME and AMF series. (It affects the cleanliness at the outlet.)

Dimensions

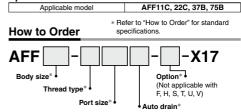


				(
Series AFF	Series AM, AMD, AMG, AMH	Connection	Α	В
Size	Size	JIS 10K FF flange		
11C	450C	15 (1/2B)	242 ± 3	256
110	4500	20 (3/4B)	239 ± 3	258
22C	550C	20 (3/4B)	255 ± 3	288
220	3300	25 (1B)	259 ± 4	301
37B	650	25 (1B)	297 ± 4	345
376	030	40 (1 ½B)	324 ± 4	352
75B	850	40 (1 ½B)	384 ± 4	489
130	630	50 (2B)	378 ± 4	497

4. With Differential Pressure Gauge (GD40-2-01), IN-OUT Flange

The differential pressure gauge is mounted on the main body to monitor the life of a filter by checking its clogging status. Ports on IN and OUT are flange connection type. (Flange material: Carbon steel)

Specifications

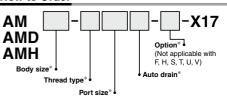


Specifications

Applicable	AM450C, 550C, 650, 850, AMD450C, 550C, 650, 850,
model	AMH450C, 550C, 650, 850

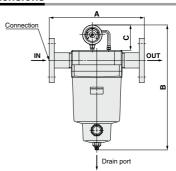
How to Order

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



- Note) The AMG series is not applicable since water drops could ingress inside its differential pressure gauge, resulting in malfunction or damage to the product.
 - · Cannot be mounted to the AME and AMF series. (It affects the cleanliness at the outlet.)

Dimensions



				(mm)
Series AFF	Series AM, AMD, AMH	Connection	А	В	С
Size	Size	JIS 10K FF flange	A		
11C	450C	15 (1/2B)	242 ± 3	308	
110	4300	20 (3/4B)	239 ± 3	300	
22C 550C	20 (3/4B)	255 ± 3	342		
	550C	25 (1B)	259 ± 4	342	80
37B	650	25 (1B)	297 ± 4	394	00
376 630		40 (1 ½B)	324 ± 4	394	
75B	850	40 (1 ½B)	384 ± 4	541	
730	650	50 (2B)	378 ± 4	541	

(mm)

Made to Order Specifications 3



AFF37B, 75B

Option*

* Refer to "How to Order" for standard

Accessory

* Refer to "How to Order" for standard

Please consult with SMC for detailed specifications, size and delivery.

5. N.C., N.O. Auto Drain, Drain Piping Type

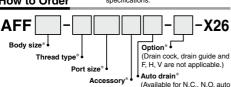
Drain piping type (drain guide specification) to the drain exhaust from N.C. auto drain and N.O. auto drain. N.C. type is not available for the AFF37B and AM□650.

6. White Vaseline Specifications

Changed the grease for O-rings and gaskets as lubricant to white

specifications.

Specifications Applicable model AFF2C to 22C, 37B * Refer to "How to Order" for standard How to Order specifications.



Specifications Applicable model

specifications

Specifications

Body size*

Specifications

How to Order

AFF

Applicable model

Thread type

Port size

AM650, 850, AMD650, 850, AME650, 850, Applicable AMF650, 850, AMG650, 850, AMH650, 850 model

specifications

How to Order Option* (Drain cock, drain guide and F, H, V are not applicable.) (Available for N.C., N.O. auto drain only) Thread type Accessorv* Port size*

drain only)

* Refer to "How to Order" for standard

AM□150 to 650

How to Order AM AMD Option* AME Auto drain* **AMF** Accessory AMG Port size AMH

Thread type¹

Body size*

Dimensions

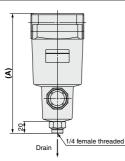
AM

AMD

AMG

AMH

Body size



			(mm)
Series AFF	Series AM, AMD, AMG, AMH	Port size	
Size	Size	Port size	A
2C	150C	1/8, 1/4	159
4C	250C	1/4, 3/8	172
8C	350C	3/8, 1/2	204
11C	450C	1/2, 3/4	225
22C	550C	3/4, 1	259
37B	650	1, 11/2	311

253

HAA HAW AT IDF

İĎŪ IDFA IDFB

IDH ID

> IDG **IDK**

AMG

AFF AM

AMD AMH

AME AMF

ZFC SF

SFD LLB

 $\mathsf{AD}\square$ GD

Made to Order Specifications 4

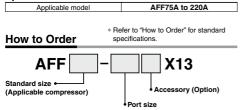


Please consult with SMC for detailed specifications, size and delivery.

7. Mist Separator for High Flow Rate (0.3 μm)

Use this product when the conventional mist separator (Series AM) cannot dispose of a high flow rate. The specifications other than the nominal filtration rating are all equivalent to that of the AFF75A to 220A

Specifications





Special Specifications

Please consult with SMC for detailed specifications, size and delivery.

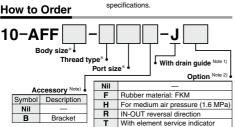
Clean Series (10-Series)

Clean Series products are used in cleaner environments such as in clean rooms as compared to a general factory environment. For further details, refer to the Clean Series catalog.

Specifications

Applicable model AFF2C to 22C, 37B, 75B

How to Order

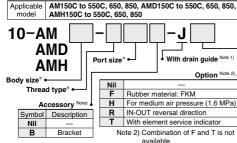


Note 1) "10-" is not applicable to standard product (with drain cock) and with auto drain

Note 2) Combination of F and T is not available F and H are only applicable to the AFF2C to 22C.

* Refer to "How to Order" for standard

Specifications



Note 1) "10-" is not applicable to standard product (with drain cock) and with auto drain.

F and H are only applicable to the AM□150C to 550C.

IN-OUT reversal direction

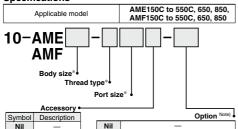
Note) F and H are only applicable to the

AME, AMF150C to 550C.

Specifications

В

Bracket



Copper-free, Fluorine-free (20-Series)

To eliminate effects etc. by copper ion or fluorine resin, copper materials are electroless-nickel plated or changed to copper-free materials to prevent the generation of copper ions.

(It is not applicable to the AMD, AME, AMF and AMH series because those include fluorine resin in the filter material of the element.)

Specifications

Applicable model AFF2C to 22C, 37B

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

HAW AT

IDF iĐÙ

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AMF

ZFC

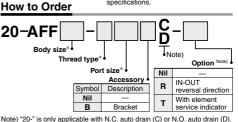
SF

SFD

LLB

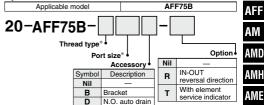
 $AD \square$

GD



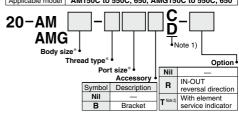
Drain cock and drain guide are copper-free, fluorine-free as standard.

Specifications



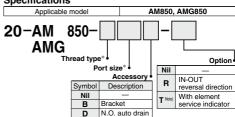
Specifications

Applicable model AM150C to 550C, 650, AMG150C to 550C, 650



Note 1) "20-" is only applicable with N.C. auto drain (C) or N.O. auto drain (D). Drain cock and drain guide are copper-free, fluorine-free as standard. Note 2) R is only available for AMG.

Specifications



Note) R is only available for AMG.





Be sure to read before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Design

∕ Caution

 Design the layout so that the mist separator should be installed in an area that is less susceptible to nulsations

The element could be damaged if a difference between the inlet pressure and the outlet pressure exceeds 0.1 MPa.

2. Be careful of dust generation by the pneumatic equipment mounted on the outlet side.

When installing pneumatic equipment on the outlet side of the $AM \square$ series, 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.

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

When using the AFF2C to 22C, 37B, 75B, AM□150C to 550C, 650, 850 with 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.

4. 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 tubing O.D. 10 mm and keep Normally open (N.O.) 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.

Keep the certificate of Class 2 Pressure Vessel in a safe place.

Products below are subject to Class 2 Pressure Vessel Act. Certificate will be sent in 2 to 4 weeks later after the shipment of the product.

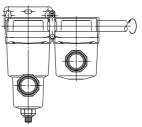
Main Line Filter ··········· AFF220A Micro Mist Separator······ AMD9□0/10□0

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

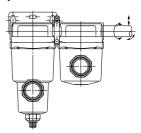
Insufficient tightening torque may cause loosening or defective sealing. Over-tightening torque may damage the thread etc. If it is tightened without holding the female thread side, excessive force will be directly applied to the piping bracket resulting in a product failure.

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

 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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Refer to front matter 43 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 (drainage)
- · Dust sucked from ambient air
- · Degenerated oil from compressor
- 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 of the AM series. (If compressed air exceeding the maximum flow rate is supplied, it can result in decline of the cleanliness of compressed air or discharge of oil mist to outlet side.)

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.

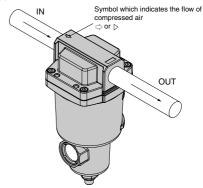
Piping

↑ 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 $\square 150C$ to $\overline{550C, 650, 850}$

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



In the case of the AFF75A to 220A, AMD800, 900, 1000

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

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

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

3. Wrapping 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.

HAA HAW

> AT IDF IDU

IDFA

IDFB IDH

ID IDG

IDK amg

AFF AM

AMD AMH

AME AMF

ZFC SF

SFD

LLB AD



Be sure to read before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Air Supply

∕ Caution

 The mist separator is not applicable to gases other than compressed air.

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

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 the mist separator is operated above the maximum operating pressure.

If the mist separator 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 the mist separator 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.

2. Be careful about the contamination of the workpieces due to entrainment of the ambient air.

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

Maintenance

∧ Caution

 Replace the element immediately when the time for its replacement has arrived. If the element is continually used without replacement, there is a possibility of damage to the element.

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 259.)

<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 the AFF75A to 220A, AMD800 to 1000

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

c. In the case of the AME

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

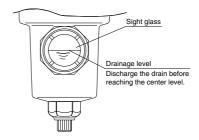
d. In the case of the AMF

Regardless of the time for its replacement indicated in "a" or "b", replace the element when you smell oil on the outlet side.

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

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

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





Be sure to read before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Maintenance

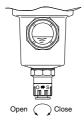
⚠ Caution

3. In the case of a type with auto drain

- The auto drain operates when the drainage level reaches the top of the sight glass, and the drain will be discharged.

<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.

Danada	Necessary parts			
Descrip- tion	Manufactured Jan. 2010 or before [Manufacturing lot No. up to oo]	Manufactured Feb. 2010 onwards [Manufacturing lot No. oP to onwards] Note 2)	Applicable size	
Drain cock	AM-SA002 AM-SA039			
Drain guide	Thread type Rc: AM-SA003 Thread type G: AM-SA003-F Thread type NPT: AM-SA003-N	Thread type Rc: AM-SA040 Thread type G: AM-SA040-F Thread type NPT: AM-SA040-N	2C to 22C 150C to 550C 650	
N.O. auto drain	Thread type Ro Thread type NF	030		
N.C. auto drain	Thread type Ro Thread type NF	2C to 22C 150C to 550C		
Ball valve set	AM-SA004			
N.O.auto drain Note 1)				

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, AM, AMD, AMH, AMG150C to 550C

Drain exhaust	Option	Thread type				
specifications		Rc	G	NPT		
	Except F, V	AM-SA039				
Drain cock	F	AM-SA039-1				
Drain 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	AD53PA-D		NAD53PA-D		
auto drain	F	AD53PA-D-X155		NAD53PA-D-X155		
auto urairi	V	AD53PA-D-X113		NAD53PA-D-X113		
	Except F, H, V	AD43PA-D		NAD43PA-D		
N.O.	F	AD43PA-D-X155		NAD43PA-D-X155		
auto drain	V	AD43PA-D-X113		NAD43PA-D-X113		
	Н	AD33PA-D-X2004 EAD33PA-D-X2004		NAD33PA-D-X2004		

Others

⚠ Caution

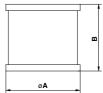
1. Element interchange

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

Since elements for the same body size has the same dimensions, they are interchangeable.

However, do not interchange them easily since it can cause various kinds of problems.

If interchanging the elements is unavoidable, replace the product model number label, too.



Element Dimensions

Model		dimensions ace 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

HAA

AT IDF

IDFA

IDFB IDH

> ID IDG

IDK AMG

AFF

AM

AMD AMH

AME AMF

ZFC SF

SFD

LLB AD□



Be sure to read before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Others

⚠ Caution

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 degreasing washed. Contact SMC after confirming the specifications. (available as Option or Made to Order)

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

The product can be used as a small capacity air tank by removing the element.

Following is the volume of filter containers of the AFF and AM 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

