

Series 10-21-AFM Mist separator

How to Order

Clean series

10-AFM 30-F 03 B-J

21-AFM 30-F 03 B-J

* "J" must always be selected.

Copper, fluorine and silicon-free + Low particle generation

Mist separator

Body size

20 30 40

Thread type

Nil	Rc
N Note 1)	NPT
F Note 2)	G

Note 1) Drain guide is NPT 1/8 (applicable to size 20), and NPT 1/4 (applicable to size 30 and 40).

Note 2) Drain guide is G 1/8 (applicable to size 20), and G 1/4 (applicable to size 30 and 40).

Port size

Symbol	Port size	Body size		
		20	30	40
01	1/8	●	—	—
02	1/4	●	●	●
03	3/8	—	●	●
04	1/2	—	—	●
06	3/4	—	—	●

Accessory

Symbol	Description	Applicable model
Nil	—	—
B Note 3)	With bracket	20 to 40

Note 3) Bracket is not assembled and is supplied loose at the time of shipment.

Option

Symbol	Description	Applicable model
2	Metal bowl	20 to 40
6	Nylon bowl	20 to 40
8	Metal bowl with level gauge	30, 40
C	With bowl guard	20
J Note 4)	Drain guide 1/8	20
	Drain guide 1/4	30, 40
R	Flow direction: Right to left	20 to 40
Z Note 5)	Name plate and caution plate for bowl in imperial units (PSI, °F)	20 to 40

When more than one specification is required, indicate in ascending alphanumeric order.

Note 4) Without a valve function.

Note 5) For NPT thread type. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)



Accessory/Optional specifications combinations

Accessory/Optional specifications combinations

○Combination available ■Combination not available
○Varies depending on the model △Available only with NPT thread

Combination		Symbol	Accessory	Optional specifications							Applicable mist separator	
Accessory/Optional specifications				B	2	6	8	C	J	R	Z	10-/21-AFM20
Optional specifications	With bracket	B	■	○	○	○	○	○	○	△	○	○
	Metal bowl	-2	○	■	■	■	○	○	△	○	○	
	Nylon bowl	-6	○	■	■	○	○	○	△	○	○	
	Metal bowl with level gauge	-8	○	■	■	○	○	△	■	○		
	With bowl guard	-C	○	○	■	○	○	△	○	■		
	Drain guide	-J	○	○	○	○	■	○	△	○	○	
	Flow direction: Right to left	-R	○	○	○	○	○	■	△	○	○	
	Name plate and caution plate for bowl in imperial units (PSI, °F)	-Z	△	△	△	△	△	△	■	△	△	

Standard specifications

Model	10-/21-AFM20	10-/21-AFM30	10-/21-AFM40	10-/21-AFM40-06
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4
Fluid	Air			
Proof pressure	1.5 MPa			
Maximum operating pressure	1.0 MPa			
Minimum operating pressure	0.05 MPa			
Ambient & fluid temperature	-5 to 60°C (No freezing)			
Nominal filtration rating	0.3 µm (95% filtered particle size)			
Outlet side oil mist concentration	Maximum 1.0 mg/m ³ (ANR) (approx. 0.8 ppm) Note 6)			
Rated flow (ℓ/min (ANR)) Note 7)	200	450	1100	1100
Drain capacity (cm ³)	8	25	45	45
Drain guide port size	1/8	1/4	1/4	1/4
Grease	10-: Fluorine grease 21-: Lithium soap based grease			
Particle generation grade (Refer to front matter pages 13 to 22 for details.)	10-: Grade 1 21-: Grade 1			

Note 6) When the compressor oil mist discharge concentration is 30 mg/m³ (ANR).

Note 7) When the inlet pressure is 0.7 MPa. Flow rate varies depending on the inlet pressure.

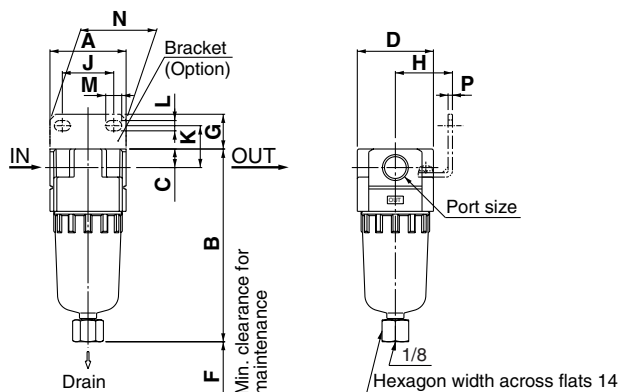
Accessory part no.

Accessory	Applicable model	10-/21-AFM20	10-/21-AFM30	10-/21-AFM40	10-/21-AFM40-06
Bracket assembly Note 8)		AF20P-050AS	AF30P-050AS	AF40P-050AS	AF40P-070AS

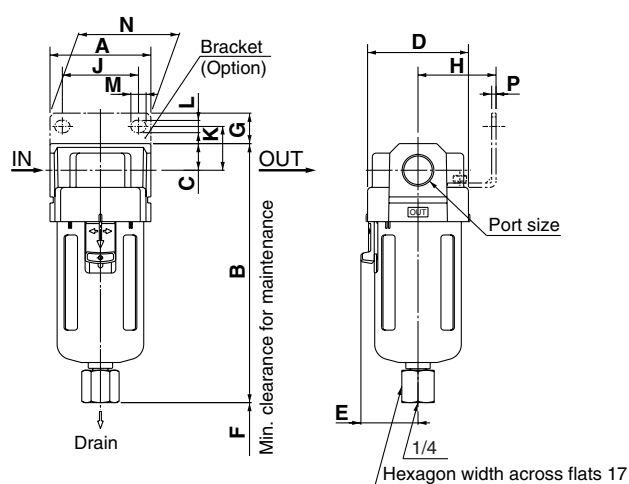
Note 8) Assembly includes a bracket and 2 mounting screws.

Dimensions

10-21-AFM20



10-21-AFM30 to 40-06



Applicable model	10-/21-AFM20		10-/21-AFM30 to 40-06	
Optional specifications	With bowl guard	Metal bowl	Metal bowl	Metal bowl with level gauge
Dimensions				

Model	Port size	Standard specifications						Accessory specifications								Optional specifications		
								Bracket mounting size								With bowl guard	Metal bowl	Metal bowl with level gauge
		A	B	C	D	E	F	G	H	J	K	L	M	N	P	B	B	B
10-/21-AFM20	1/8, 1/4	40	101	10	40	—	45	18	30	27	22	5.4	8.4	40	2.3	101	104	—
10-/21-AFM30	1/4, 3/8	53	136	14	53	30	50	16	41	40	23	6.5	8	53	2.3	—	136	156
10-/21-AFM40	1/4, 3/8, 1/2	70	172	18	70	38	75	17	50	54	26	8.5	10.5	70	2.3	—	172	192
10-/21-AFM40-06	3/4	75	176	20	70	38	75	14	50	54	25	8.5	10.5	70	2.3	—	176	196