

Series 10-21-AFD Micro mist separator

How to Order

Clean series 

10-AFD 30-F 03-B J

21-AFD 30-F 03-B J

* "J" must always be selected.

Copper, fluorine and silicon-free + Low particle generation

Micro 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 size
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 size
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

Combination		Symbol	Access-ory	Optional specifications							Applicable to micro mist separator	
Accessory/Optional specifications				B	2	6	8	C	J	R	Z	10-/21-AFD20
Accessory 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-AFD20	10-/21-AFD30	10-/21-AFD40	10-/21-AFD40-06
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	0.01 µm (95% filtered particle size)			
Outlet side oil mist concentration	Max. 0.1mg/m ³ (ANR) (Before saturated with oil: 0.01 mg/m ³ (ANR) or less, approx. 0.008 ppm) Note 6)			
Rated flow (ℓ/min (ANR)) Note 7)	120	240	600	600
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. The flow rate varies depending on the inlet pressure.

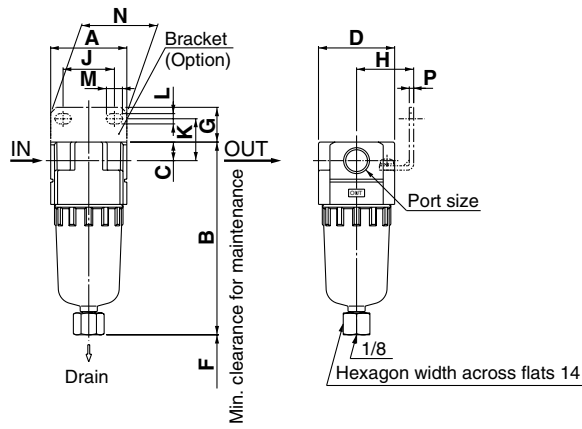
Accessory part no.

Accessory	Applicable model	10-/21-AFD20	10-/21-AFD30	10-/21-AFD40	10-/21-AFD40-06
Bracket assembly Note 8)		AF20P-050AS	AF30P-050AS	AF40P-050AS	AF40P-070AS

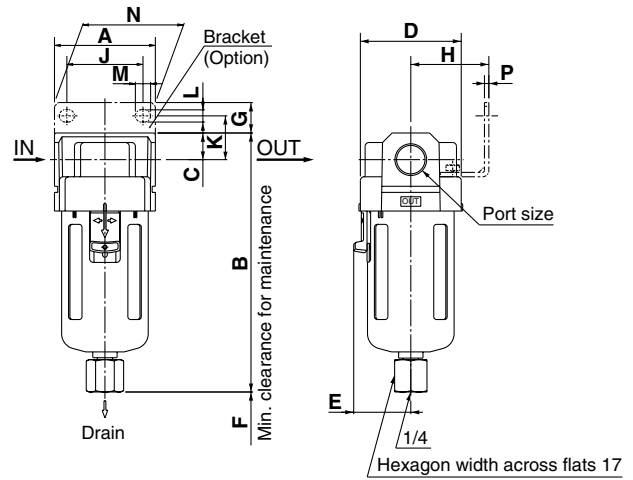
Note 8) Assembly includes a bracket and 2 mounting screws.

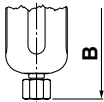
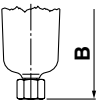
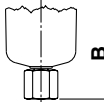
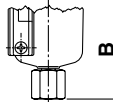
Dimensions

10-21-**AFD20**



10-21-**AFD30 to 40-06**



Applicable model	10-/21-AFD20		10-/21-AFD30 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-AFD20	1/8, 1/4	40	101	10	40	—	45	18	30	27	22	5.4	8.4	40	2.3	101	104	—
10-/21-AFD30	1/4, 3/8	53	136	14	53	30	50	16	41	40	23	6.5	8	53	2.3	—	136	156
10-/21-AFD40	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-AFD40-06	3/4	75	176	20	70	38	75	14	50	54	25	8.5	10.5	70	2.3	—	176	196