

Mist Separator *Series AFM20-A to AFM40-A*

Micro Mist Separator *Series AFD20-A to AFD40-A*

Standard Specifications

Model		AFM20-A AFD20-A	AFM30-A AFD30-A	AFM40-A AFD40-A	AFM40-06-A AFD40-06-A
Port size		1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4
Fluid		Air			
Ambient and fluid temperature		– 5 to 60°C (with no freezing)			
Proof pressure		1.5 MPa			
Maximum operating pressure		1.0 MPa			
Minimum operating pressure		0.05 MPa			
Nominal filtration rating	AFM20-A to AFM40-06-A	0.3 μm (99.9% filtered particle size)			
	AFD20-A to AFD40-06-A	0.01 μm (99.9% filtered particle size)			
Outlet side oil mist concentration	AFM20-A to AFM40-06-A	MAX 1.0 mg/m³ (ANR) (≈0.8 ppm) ^{Note 2) Note 3)}			
	AFD20-A to AFD40-06-A	MAX 0.1 mg/m³ (ANR) (Before saturated with oil 0.01 mg/m³ (ANR) or less ≈ 0.008 ppm) ^{Note 2) Note 3)}			
Rated flow (L/min (ANR)) ^{Note 1)}	AFM20-A to AFM40-06-A	200	450	1100	
	AFD20-A to AFD40-06-A	120	240	600	
Drain capacity (cm³)		8	25	45	
Bowl material		Polycarbonate			
Bowl guard		Semi-standard (Steel)	Standard (Polycarbonate)		
Weight (kg)		0.09	0.19	0.38	0.43

Note 1) Conditions: Inlet pressure: 0.7 MPa; The rated flow varies depending on the inlet pressure. Keep the air flow within the rated flow to prevent an outflow of lubricant to the outlet side.

Note 2) When the compressor oil mist discharge concentration is 30 mg/m³ (ANR).

Note 3) Bowl O-ring and other O-rings are slightly lubricated.

Options/Part No.

Optional specifications		Model			
		AFM20-A AFD20-A	AFM30-A AFD30-A	AFM40-A AFD40-A	AFM40-06-A AFD40-06-A
Bracket assembly ^{Note 1)}		AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS
Float type auto drain ^{Note 2) Note 3)}	N. C.	AD27-A	AD37-A	AD47-A	
	N. O.	—	AD38-A	AD48-A	

Semi-standard/Bowl Assembly Part No.

Semi-standard specifications						Model			
Bowl material	Note 2) Note 3) Float type auto drain		Note 3) With drain guide	With barb fitting	With bowl guard	AFM20-A AFD20-A	AFM30-A AFD30-A	AFM40-A AFD40-A	AFM40-06-A AFD40-06-A
	N. C.	N. O.							
Polycarbonate	—	—	—	—	●	C2SF-C-A	—	—	—
	●	—	—	—	●	AD27-C-A	—	—	—
	—	—	●	—	—	C2SF-J-A	C3SF-J-A	C4SF-J-A	—
	—	—	—	●	—	—	C3SF-W-A	C4SF-W-A	—
	—	—	●	—	●	C2SF-CJ-A	—	—	—

Note 1) Assembly of a bracket and 2 mounting screws.

Note 2) Minimum operating pressure: N.O. type—0.1 MPa; N.C. type—0.1 MPa (AD27-A) and 0.15 MPa (AD37-A/47-A), Please consult with SMC separately for psi and °F unit display specifications.

Note 3) Please consult with SMC for details on drain piping to fit NPT or G port sizes.

Note 4) The bowl assembly includes the bowl O-ring.