Compressed Air Preparation Filter

Compressed Air **ISO 8573** Purity Class

Line Filter AFF30	1 μm	Water droplet removal
Mist Separator AM30	0.1 μm	Oil mist separation and removal

0.01 μm Micro Mist Separator AMD30

Face-to-face and depth dimensions reduced by 30%

AFF/AM
30:
53 mm (Existing model:
76 mm)



No tools are required.

Oil mist

separation and removal

Easier replacement of the element

- T



Improved filtration performance

New

RoHS

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AFF: 1 μm (Existing model: 3 µm) AM: **0.1** μm (Existing model: 0.3 µm)

Transparent bowl guard (Double layer design)

• The inside is visible from 360°.

• The bowl is completely protected from the environment, allowing for improved safety.

Weight reduced by 30%

AFF/AM□30: 0.39 kg (Existing model: 0.55 kg)

Flow capacity increased by 50%

AMD30: 750 L/min (Same flow capacity for all series) AMD250C: 500 L/min (Existing model)

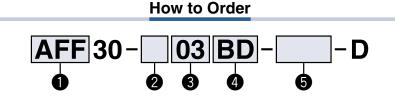
Pressure drop: 10 kPa or less







AFF/AM/AMD30



					Symbol	Description		
	Line filter			Line filter	AFF	Nominal filtration rating: 1 μm Water droplet removal ratio: 99%		
0	Filter type Mist separator		AM	Nominal filtration rating: 0.1 μm Oil mist density at outlet: 1 mg/m^3				
	Micro mist separator				AMD	Nominal filtration rating: 0.01 μm Oil mist density at outlet: 0.1 mg/m ³		
					+			
	2 Thread type				Nil	Rc		
2				ре	N *1	NPT		
					F *2	G		
					+			
8	Port size			_	02	1/4		
Ð				.	03	3/8		
					+			
		а	Mounting		Nil	Without mounting option		
					B *3	With bracket		
4	tior				+			
	Option	b			Nil	Without auto drain		
			Float type auto drain	C *4	N.C. (Normally closed)			
					D *5	N.O. (Normally open)		
					+			
		c		Nil	Polycarbonate bowl			
			Bowl		2	Metal bowl		
					6	Nylon bowl		
					8	Metal bowl with level gauge		
	σ	+						
	dar	d	Drain port ^{*6}	Nil	With drain cock			
6	tan			J *7	Drain guide 1/4			
9	Semi-standard			W *8	Drain cock, Barb fitting (ø6)			
					+			
		е	Flow direction	Nil	Flow direction: Left to right			
				R	Flow direction: Right to left			
					+			
		f Pr	Proc	ressure unit	Nil	Name plate and caution plate for bowl in SI units: MPa		
			FIES		Z *9	Name plate and caution plate for bowl in imperial units: psi, $^\circ F$		

*1 Drain guide is NPT1/4. The auto drain port comes with ø3/8" One-touch fitting.

*2 Drain guide is G1/4.

*3 A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws

*4 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.

*5 If the compressor is small (0.75 kW, discharge flow is less than 100 L/min [ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.

*6 The combination of float type auto drain: C and D is not available.

*7 Without a valve function

*8 The combination of metal bowl: 2 and 8 is not available.

*9 For pipe thread type: NPT

This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)

Compressed Air Preparation Filter **AFF/AM/AMD30**

Standard Specifications

Model			AFF30	AM30	AMD30	
Fluid			Air			
Ambient and fluid temperatures °		°C	-5 to 60 (No freezing)			
Proof pressure		MPa	1.5			
Maximum operating pressure		MPa	1.0			
Minimum operating	Auto drain (N.C.)	MPa	0.15			
pressure	Auto drain (N.O.)	MPa	0.1			
Nominal filtration rating		μ m	1 (Filtration efficiency: 99%)	0.1 (Filtration efficiency: 99%)	0.01 (Filtration efficiency: 99.9%)	
Water droplet removal ratio		%	99 ^{*1}	_	—	
Oil mist density at outlet mg		mg/m ³ (ANR)	— Мах. 1.0 ^{*2} Ма		Max. 0.1*3	
Rated flow ^{*4} L/min (ANR)		L/min (ANR)	750			
Weight kg		kg	0.39			

*1 Conditions: Water droplet at inlet: 33 mL/m³ (ANR), At rated flow

*2 Conditions: Oil mist density at inlet: 10 mg/m3 (ANR), At rated flow

*3 Conditions: Oil mist density at inlet: 1 mg/m³ (ANR), At rated flow

*4 Condition: Inlet pressure of 0.7 MPa

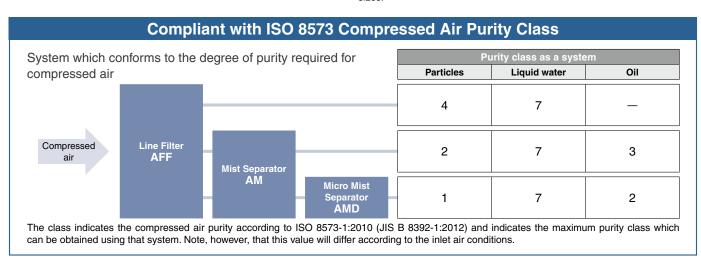
Option Part Nos.

Bracket assembly ^{*1}	AF34P-070AS		
	N.C.	AD37-A	*
Float type auto drain* ^{2, 3}	N.O.	AD38-A	
			*

Assembly of a bracket and 2 mounting screws

Minimum operating pressure: N.O. type-0.1 MPa; N.C. type-0.15 MPa

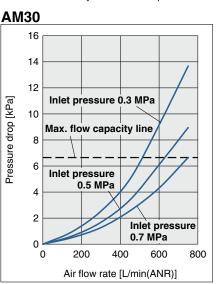
Please consult with SMC separately for psi and °F unit display specifications. Please consult with SMC for details on drain piping to fit NPT or G port sizes.



Flow Rate Characteristics/Select a model which falls under the max. flow capacity line.

* Compressed air over the max. flow capacity line in the tables below may not meet the specifications of the product.

AFF30 12 10 Inlet pressure 0.3 MPa [>]ressure drop [kPa] 8 Max. flow capacity line 6 Inlet pressure 4 0.5 MPa 2 Inlet pressure 0.7 MPa 0 800 0 200 400 600 Air flow rate [L/min(ANR)]

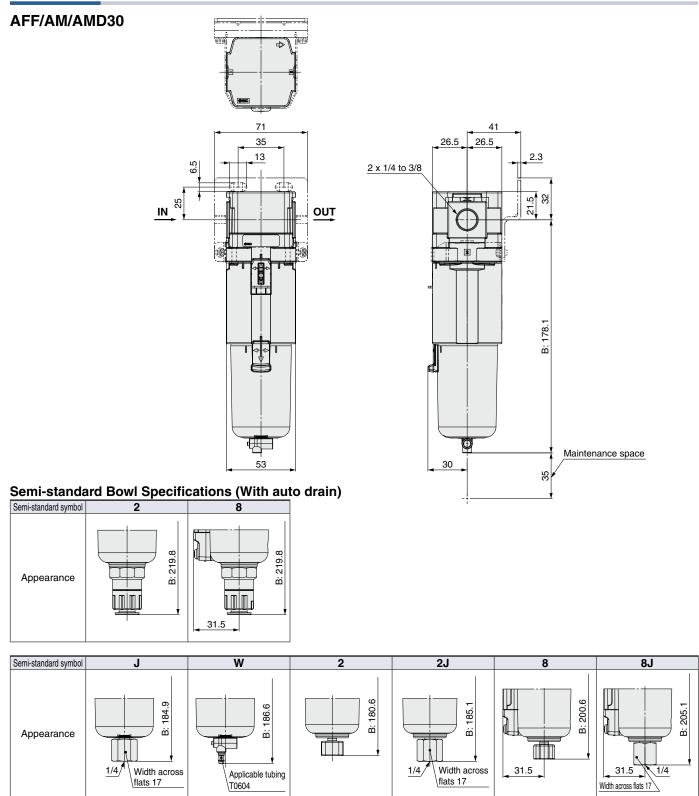


AMD30 16 14 Inlet pressure 0.3 MPa 12 Pressure drop [kPa] 10 Max. flow capacity line 8 6 Inlet pressure 0.5 MPa 4 2 Inlet pressure 0.7 MPa 0 400 800 0 200 600 Air flow rate [L/min(ANR)]



AFF/AM/AMD30

Dimensions



A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.