Compressed Air Preparation Filter

Compressed Air Purity Class

ISO 8573

Line Filter AFF30

Mist Separator AM30

Micro Mist Separator AMD30

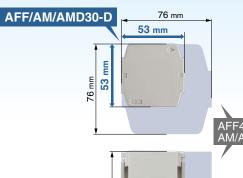
1 μm Wate drople remove

Oil mist separation and removal

O.01 Oil mist separation and removal

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

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





No tools are required.

Easier replacement of the element



Improved filtration performance

New

RoHS

AFF: **1** μ**m**

(Existing model: 3 μm)

AM: **0.1** μ**m**

(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

An end cap with slits is used for the element.

This eliminates the accumulation of condensate. Even high-velocity fluid is prevented from spattering. The result is a compact bowl design.



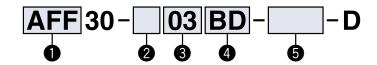


AFF/AM/AMD30



AFF/AM/AMD30

How to Order



					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/m³		
	Micro mist separator				AMD	Nominal filtration rating: 0.01 μm Oil mist density at outlet: 0.1 mg/m ³		
+								
	Thread type				Nil	Rc		
2					N*1	NPT		
					F *2	G		
+								
A	Port size				02	1/4		
8			FUIT SIZE	,	03	3/8		
					+			
		а	Mounting		Nil	Without mounting option		
	Option				B *3	With bracket		
4					+			
4	op		Float type auto drain		Nil	Without auto drain		
		b			C*4	N.C. (Normally closed)		
					D *5	N.O. (Normally open)		
					+			
		С	Bowl	Nil	Polycarbonate bowl			
	Semi-standard			2	Metal bowl			
			BOWI		6	Nylon bowl		
					8	Metal bowl with level gauge		
		+						
					Nil	With drain cock		
		d	Drain port*6	J * ⁷	Drain guide 1/4			
6			·		W *8	Drain cock, Barb fitting (ø6)		
				+	•			
		е	F	Nil	Flow direction: Left to right			
			Flow direction		R	Flow direction: Right to left		
					+			
		f	Pressure unit		Nil	Name plate and caution plate for bowl in SI units: MPa		
				Z *9	Name plate and caution plate for bowl in imperial units: psi, °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.)



Standard Specifications

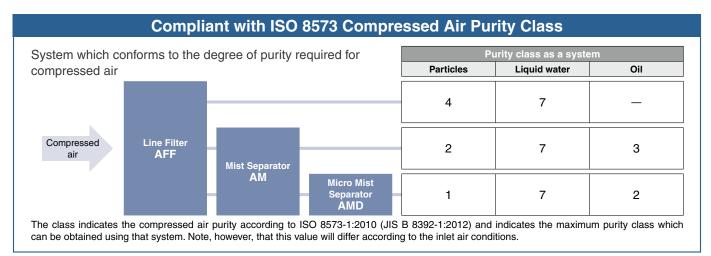
	Model		AFF30	AM30	AMD30		
Fluid			Air				
Ambient and fluid to	emperatures	°C	-5 to 60 (No freezing)				
Proof pressure		MPa	1.5				
Maximum operating pressure		MPa	1.0				
Minimum operating pressure Auto drain (N.C. Auto drain (N.O.		MPa	0.15				
		MPa	0.1				
Nominal filtration rating		μ m	1 (Filtration efficiency: 99%)	0.1 (Filtration efficiency: 99%)	0.01 (Filtration efficiency: 99.9%)		
Water droplet remove	val ratio	%	99 ^{*1}	_	_		
Oil mist density at o	utlet	mg/m³ (ANR)	_	Max. 1.0*2	Max. 0.1*3		
Rated flow*4		L/min (ANR)	750				
Weight		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.

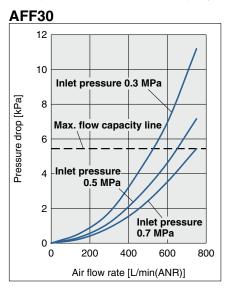
Bracket asse	embly*1	AF34P-070AS	
Float type au	uto duoin*2 3	N.C.	AD37-A
rioat type at	ito drain =, °	N.O.	AD38-A

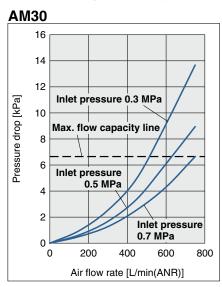
- *1 Assembly of a bracket and 2 mounting screws
- *2 Minimum operating pressure: N.O. type–0.1 MPa; N.C. type–0.15 MPa Please consult with SMC separately for psi and °F unit display specifications.
- *3 Please consult with SMC for details on drain piping to fit NPT or G port sizes.

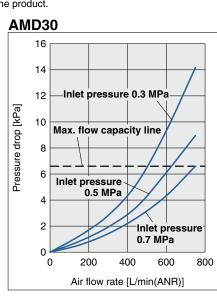


Flow Rate Characteristics/Select a model which falls under the max. flow capacity line.

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





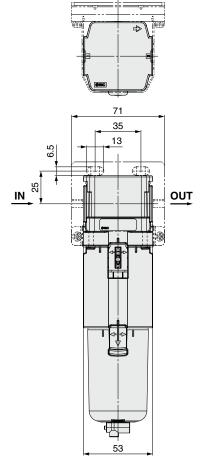


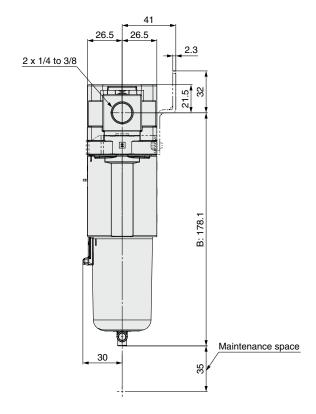


AFF/AM/AMD30

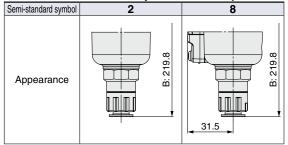
Dimensions

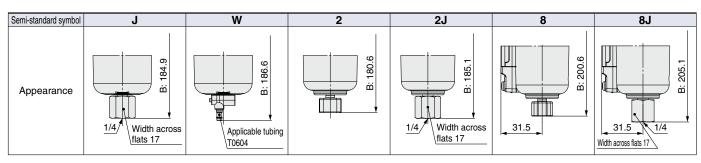
AFF/AM/AMD30





Semi-standard Bowl Specifications (With auto drain)





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