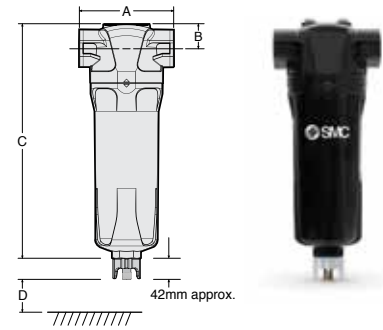


Threaded Compressed Air Filters - Series AFW

Features

- Flow rates up to 1,500 SCFM, connections to 3" NPT
- Differential pressure indicators and float type auto drains standard
- Float and drain can be changed from outside bowl
- Suitable for use with mineral and synthetic oils as well as oil-free



Specifications - Filters

Filter 1)	Element 1)	Flow Rate (SCFM)	Dimensions Inch				Max. Working Pressure	Maximum Temperature	NPT Connections		Weight (Lbs)
			A	B	C ⁵⁾	D			In/out	Side	
AFW175A-N10DG-E* ²⁾	AFW-EL175A-E*	175	5	1.26	14.6	3.15	232 psi (w/ auto drain)	176°F (w/ auto drain)	1"	1/4" NPT (w/ auto drain)	4.4
AFW280A-N12DG-E* ²⁾	AFW-EL450A-E*	280	6.69	2.08	20	3.94			1-1/4"		10.8
AFW400A-N14DG-E* ²⁾		400							1-1/2"		10.8
AFW450A-N20DG-E*		450							2"		10.8
AFW700A-N20DG-E*	AFW-EL700A-E*	700					27.87	300 psi (w/o auto drain)	248°F (w/o auto drain)	1/8" NPT (female) connection on auto drain	12.1
AFW850A-N24DG-E*	AFW-EL900A-E*	850	8.66	2.75	28.97	23.1					
AFW900A-N30DG-E*		900				23.1					
AFW1250A-N30DG-E*		1,200				33.74	25.4				
AFW1500A-N30DG-E*	AFW-EL1500A-E*	1,500				39.56	3"	27.6			

- 1) Specify filtration grade in part number by replacing *. 5 = 5 μ m, 1 = 1 μ m, A = 0.01 μ m, C = activated carbon / 0.01 μ m
 2) If 145 psi pressure rating is acceptable, the equivalent AFF / AM* model is preferred.
 3) Housing has 3/4" G bottom connection and is provided with a 1/4" NPT adapter bushing.
 4) Minimum operating temperature: 35°F
 5) Add 2.8" for differential pressure indicator

Centrifugal Water Separators - Series AFW-WS

Features

- Flow rates up to 1,500 SCFM
- Threaded connections to 3" NPT
- Suitable for use with mineral and synthetic oils as well as oil-free
- Float type auto drains standard up to 1500 SCFM
- Float and drain can be changed from outside bowl

Specifications - Centrifugal Water Separators

Model number	Flow rate (SCFM)	Dimensions				Max. working pressure	Max. temperature	Connections		Weight (lbs)		
		A	B	C	D			In/out	Bottom 1)			
AFW175A-N10D-WS	175	5	1.3	11.2	3.1	232 psig (w/ auto drain)	176°F (w/ auto drain)	1" NPT	1/4" NPT	3.75		
AFW275A-N12D-WS	275	6.7	2.1	20	3.9			300 psig (w/o auto drain)	248°F (w/o auto drain)	1-1/4" NPT	(w/o auto drain)	10.80
AFW400A-N14D-WS	400									1-1/2" NPT	1/8" NPT (female connection on auto drain)	
AFW700A-N20D-WS	700	8.7	2.8	16.5				2" NPT	17.64			
AFW850A-N25D-WS	850							2-1/2" NPT				
AFW1500A-N30D-WS	1,500							3" NPT				

- 1) Housing has 3/4" G bottom connection and is provided with a 1/4" NPT adapter bushing.
 2) Min. recommended operating temperature: 35°F
 3) Typical pressure loss at rated flow: 0.7 psi

Consult Factory for Higher-Flow Flanged Filter or Water Separator Units

Element Specifications

Filtration Grade	E5	E1	EA	EC
Description	General Purpose	Pre-filtration / Coalescing	High Efficiency Coalescing	Activated carbon
Particle Removal	5 μ m	1 μ m	0.01 μ m	0.01 μ m
Maximum Particle size class*	4	3	1	1
Maximum Oil Content*	4	3	1	1
Maximum Oil Carryover at 68°F (20°C)	5 mg/m ³ (4.2 ppm)	0.3 mg/m ³ (0.25 ppm)	0.01 mg/m ³ (0.008 ppm)	0.003 mg/m ³ (0.003 ppm)
Pressure Loss - Clean & Dry	0.6 psi	0.8 psi	1.2 psi	1.7 psi
Pressure Loss - Saturated	1.1 psi	1.8 psi	1.8 psi	N/A
Expected element change interval	12 months / 8,000 hours			At least every 6 months
Maximum Temperature (w/ auto drain)	176°F			122°F **
Maximum Temperature (w/o auto drain)	248°F			
Element end cap color	● Green	● Red	● Blue	● Black

* In accordance with ISO 8573-1:2010 ** Maximum recommended operating temperature 77°F

Accessories

Description		Applicable body size		
		AFW175A	AFW275A~700A	AFW850A~1500A
Mounting bracket kit		AFW-MBK175A	AFW-MBK700A	AFW-MBK1500A
Connection kit for joining 2 housings together		AFW-CK175A-2A	AFW-CK700A-2A	AFW-CK1500A-2A
Connection kit for joining 3 housings together		AFW-CK175A-3A	AFW-CK700A-3A	AFW-CK1500A-3A
Connection kit for joining 4 housings together		AFW-CK175A-4A	AFW-CK700A-4A	AFW-CK1500A-4A
Description		Applicable body size (old style)		
		AFW150	AFW225~650	AFW1000~1500
Mounting bracket kit (2 per kit)		AFW-BK150	AFW-BK650	AFW-BK1500
Connection kit		AFW-CK150	AFW-CK650	AFW-CK1500
Port plate kits *	1/2"	AFW-E150-N04	N/A	N/A
	3/4"	AFW-E150-N06		
	1"	AFW-E150-N10		
	1-1/2"	AFW-E150-N14	AFW-E650-N14	
	2"	N/A	AFW-E650-N200	

Replacement Parts

Description	Applicable body size			
	AFW175A	AFW275A~700A	AFW850A~1500A	
Optional type, N.O. drain valve, internally accessible	AFW-ADVS16			
Externally accessible, N.O. drain valve	AFW-ADVSE16			
Externally accessible, N.C. drain valve for use in low flow applications	AFW-ADVSE16C			
Optional type 1/4" manually operated drain valve, internally accessible	AFW-MDV25			
Externally accessible 1/4" manually operated drain valve	AFW-MDVE25			
3/4" G thread to 1/4" NPT drain port adapter	AFW-ADT25			
Differential pressure indicator	AFW-65DPIG			
O-ring seal kit	AFW-OSK175A	AFW-OSK700A	AFW-OSK1500A	
Spinner for water separator	AFW-CM-3052-03	AFW-CM-3122-05	AFW-CM-3251-06	
Previous generation filter replacement parts	AFW150	AFW225~650	AFW1000~1500	
Float type auto drain, <i>plastic</i> , AFW150~1500, 2016 and older	AFW-ADVW16			
Float type auto drain, <i>metal</i> , AFW150~1500, 2016 and older	AFW-DVAS16			
Differential pressure indicator	AFW-DP-GAUGE			
Differential pressure remote alarm	AFW-DP-REMOTE			
Previous generation water separator replacement parts	AFW175	AFW275~325	AFW400~700	AFW850~1500
Spinner	AFW-CM-059-108	AFW-CM-128-158	AFW-CM-159-208	AFW-CM-254-340

Correction Factor

For maximum flow rate, multiply model flow rate shown in the specification table by the correction factor shown below corresponding to the working pressure. This applies to all filtration grades as well as the water separator models.

Example: AFW650-N20-E1

Rated flow = 650 SCFM, working pressure = 115 psi

Correction factor = 1.07 ► max flow = 650 x 1.07 = 696 SCFM

Operating pressure psig (MPa)	58 (0.4)	72 (0.5)	87 (0.6)	100 (0.7)	115 (0.8)	145 (1.0)	174 (1.2)	203 (1.4)	232 (1.6)	290 (2.0)
Correction factor	0.76	0.84	0.92	1	1.07	1.19	1.31	1.41	1.51	1.6