

Tubular Backwashing Filter

AFC-Series



When an application demands high-pressure operation – up to 1,000 psi (69 bar) – and scalable flexibility, the Eaton AFC-Series is optimal. Systems are available in single, duo, and multiplex configurations.

FEATURES/BENEFITS

- Solids removal from 2 to 1,700 microns
- Single system flow rates up to 3,000 gpm (681 m³/hr)
- Broad selection of filter media materials and retentions suitable for a wide range of applications
- Smooth pipe and nozzle connection transitions to avoid dead spots in the fluid stream and minimize pressure drop
- Numerous automated backwash options for operator-free service and minimal backwash effluent (<2% of system volume)
- Available ACCUFLUX™ media dramatically increases filter surface area in the same footprint
- Proprietary 3-way, full-ported valves on AFC-1100 multiplex filters allow fast, frequent sequencing and maximum cleaning force during backwashing
- Isolated top-to-bottom backwash flow on AFC-1100, 2200 and AFC-3300 multiplex filters ensures complete and efficient media cleaning while continuing to deliver filtered product downstream
- Quick coupler valve connectors for ease of body tube removal

OPTIONS

- Straight-thru and Standard configurations
- Single, duo and multiplex (up to 20 station) models
- Pressure gauge and drain valve options
- Internal or external backwashing
- Drain header trap
- Media-cleaning diffusers for more effective cleaning at low operating pressures or volumes
- 304 stainless steel frame material



Powering Business Worldwide

Straight-Thru Design

Single Filters

Designed for batch or intermittent service, AFC-Series filters are ideal for a wide range of applications. Quick coupling connectors afford easy media access for inspection, cleaning, or replacement. Choice of straight-thru and standard configurations, both are available with pressure gauge and drain valve options.

Duo Standard Design

Standard Design

Duo Filters

Two single filter units are connected to a pair of 3-way valves for continuous service during cleaning or maintenance. If a pressure rating above 350 psi is required, 2-way ball valves rated at 1,000 psi are incorporated. For intermittent service applications, the valves can be positioned so that both units operate simultaneously.

Multiplex Filters

Multiplex units consist of two or more single filter units valved in parallel to common headers. This configuration enables sequential backwashing of individual elements while the system remains in operation.



AFC-2200 Multiplex High-Pressure Unit

TYPICAL APPLICATIONS

- city water lines • hot condensate • chiller water • fresh water
- whitewater / shower water • cip fluids • papermaking wet end starch
- pelletizer water • single and duo tubular filters for a wide range of applications up to 1000 psi and high viscosity applications

AFC-Series Tubular Backwashing Filter

Single and Duo

	1100	1500	2200	3300 ¹				
Body Inlet/Outlet Size - in (mm)	1 (25.4)	1.5 (38.1)	2 (50.8)	3 (76.2)				
Body Diameter - in (mm)	2.875 (73)	3.5 (88.9)	4.5 (114.3)	4.5 (114.3)				
Screen Length - in (mm)	12 (304.8) 18 (457.2)	24 (381) 36 (914.4)	18 (457.2) 36 (914.4)	18 (457.2) 36 (914.4)				
Element Styles Available ² - in (mm)	2 (50.8) dia. single	2.25 (57.1) dia. single	3.25 (82.8) dia. single, Tri-Cluster, Accuflux - 7	3.25 (82.8) dia. single, Tri-Cluster, Accuflux - 7				
Pressure Rating ³ - psi (bar)	150 (10.3) 250 (17.2) ⁴	150 (10.3) 250 (17.2) ⁴	150 (10.3) 250 (17.2) ⁴ 350 (24.1), 740 (51.7), +1000 (101.3) ^{4/5}	150 (10.3)				
Total Volumetric Capacity - Model #'s	1112	1118	1524	1536	2218	2236	3318	3336
Single Unit - gal (l)	0.4 (1.5)	0.5 (1.9)	1 (3.8)	1.4 (5.3)	1.3 (4.9)	2.4 (9.1)	1.3 (4.9)	2.4 (9.1)
Duo-Unit - gal (l)	0.8 (3.0)	1 (3.8)	2 (7.6)	2.8 (10.6)	2.6 (9.8)	4.8 (18.2)	2.6 (9.8)	4.8 (18.2)
Single Unit Weight - lbs (kg)	15 (6.8)	18 (8.2)	25 (11.3)	30 (13.6)	35 (15.9)	40 (18.1)	40 (18.1)	45 (20.4)
Duo Unit Weight - lbs (kg)	80 (36.3)	90 (40.8)	110 (49.9)	125 (56.7)	140 (63.5)	160 (72.6)	180 (81.6)	300 (136.0)
Drain Size ⁶ - in (mm)	Standard 0.75 (19)	Straight-Thru 0.5 (12.7)	Standard 0.75 (19)	Straight-Thru 0.5 (12.7)	Standard 1.25 (31.75)	Straight-Thru 0.5 (12.7)	Straight-Thru 0.5 (12.7)	

¹Available in Straight-Thru design only ²Consult media availability chart for specific retentions and types available. ³Teflon gaskets limit pressure maximum to 80 psi (5.5 bar)

⁴All high pressure units (250 psi and over) incorporate 2-way ball valves. ⁵Duo configuration 350, 740 and 1000 psi available in Straight-Thru design only. ⁶Consult factory for optional additional drain sizes

Multiplex

	1100	2200	3300
Body Inlet/Outlet Size - in (mm)	1 (25.4)	2 (50.8)	3 (76.2)
Inlet/Outlet Header Size ¹ - in (mm)	3 (76.2) 4 (101.8)	3 (76.2) 4 (101.8) 6 (152.4) 8 (203.2) 10 (254.0) 12 (304.8)	3 (76.2) 4 (101.8) 6 (152.4) 8 (203.2) 10 (254.0) 12 (304.8)
Body Diameter - in (mm)	2.875 (73)	4.25 (114.3)	4.25 (114.3)
Screen Length - in (mm)	18 (457.2)	36 (914.4)	36 (914.4)
Element Styles Available ² - in (mm)	2 (50.8) diameter single	3.25 (82.3) diameter single, Tri-Cluster, Accuflux - 7	3.25 (82.3) diameter single, Tri-Cluster, Accuflux - 7
Pressure Rating ³ - psi (bar)	150 (10.3) 250 (17.2)	1000 (101.3)	150 psi (10.3 bar)
Air Requirement (Automated Units)	60-120 psi (4.1-8.3 bar) @ 5 cfm, for sequencing	60-120 psi (4.1-8.3 bar) @ 5 cfm, for sequencing	60-120 psi (4.1-8.3 bar) @ 5 cfm, for sequencing
Electrical Requirement (Automated Units)	110/220 V, 50/60 Hz, single phase	110/220 V, 50/60 Hz, single phase	110/220 V, 50/60 Hz, single phase

¹Drain header size 3" (76.2). Consult factory for custom sizes ²Consult media availability chart for specific retentions and types available.

³Teflon gaskets limit pressure maximum to 80 psi (5.5 bar) AFC 2200 available in 1000 psi (101.3 bar) only



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