

PERMANENT MEDIA FILTERS



APPLICATIONS:

- » HVAC
- » POTABLE/WASTEWATER
- » PROCESS/INDUSTRIAL
- » AQUATIC FEATURES

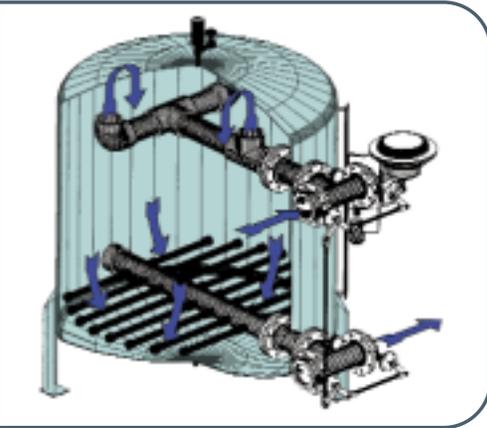


C O R P O R A T I O N
FILTRATION AND CONTROL SYSTEMS



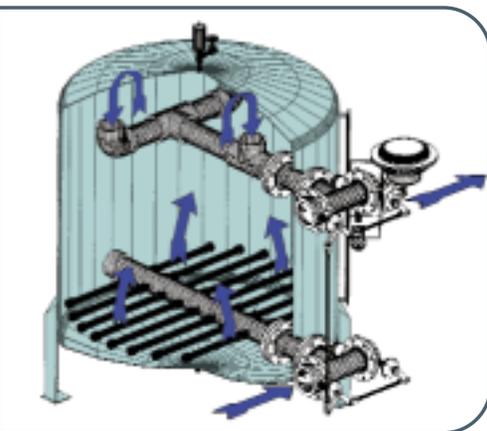
PERMANENT MEDIA FILTRATION

Permanent media filtration has a distinct advantage over disposable bags, cartridges or hydrocyclone separators. Permanent media filtration is a positive filtering media that is easily backwashed for cleaning. *PUROFLUX* filters utilize the finest media. This media can be used individually or combined to optimize filtration efficiency. *PUROFLUX* standard media physically removes particulate 10 micron and smaller.



FILTRATION CYCLE

Influent¹ is directed through a series of valves into the overdrain of the filter, where it is evenly distributed over the filtration media. It is then forced down through the media bed where the suspended particulate is trapped in the voids formed between the media. The clean effluent² then passes through the underdrain and is returned to the original source. As the voids in the media are filled, the filter will start to blind off. When the maximum differential pressure is reached, the filter will require a backwash.



BACKWASH CYCLE

The filter is backwashed by reversing the fluid flow through the filter. The backwash fluid is directed into the filter through the underdrain and up through the media. As the backwash fluid moves through the media it causes the bed to lift and separate. The tumbling action of the media causes a scouring effect which releases trapped particulate and suspends it in the backwash flow. The fluid then carries the particulate that is suspended up through the overdrain and out to waste.

¹ Influent (In-flu-ent): Wastewater or other liquid flowing into a treatment process
² Effluent (Ef-lu-ent): Wastewater or other liquid flowing from a treatment process



PUROFLUX offers a wide variety of filtration products to satisfy most applications. Standard filters are designed to handle a multitude of pressures and flows. Systems can be

engineered upon request to fit specific applications and configurations. **PUROFLUX** filters can be equipped with either manual or fully automated backwash controls.

PF-10 SERIES - Designed For Low Pressure Open Applications - 50 PSI

Ref. S-10



- Available in flow rates of 45, 65 and 100 GPM.
- Positive filtration down to 10 micron.
- 2-piece fiberglass reinforced polyester vessel rated at 50 psi.
- Industrial grade brass 3-way ball valves and Sch. 80 PVC face piping.
- Close coupled, bronze constructed centrifugal pump, TEFC motor and Noryl pre-strainer with clear lid.
- Skid - fusion bonded polyester coated carbon steel.
- Automatic option includes: NEMA 3R control cabinet, door disconnect switch, motor short circuit/overload protection, electric actuator, step-down transformer, pressure differential switch, adjustable solid state timer and 24 hr. backwash clock.

MODEL	FLOW RATE	FILTRATION AREA	VALVE SIZE	MOTOR	DIMENSIONS			WEIGHT, LBS	
					L	H	W	Shipping	Oper.
Number	GPM	Sq. Ft.	Inches	HP					
PF-1020	45	2.20	1.5	1.0	46"	42"	33"	490	585
PF-1024	65	3.14	1.5	2.0	54"	42"	35"	600	770
PF-1030	100	4.91	2.0	2.0	63"	42"	38"	800	1090

PF-20 SERIES - Designed For Low Pressure Open Applications - 50 PSI

Ref. S-20



- Available in flow rates of 15, 35, 65 and 100 GPM.
- Positive filtration down to 10 micron (5 micron optional).
- Fusion bonded epoxy lined/polyester coated carbon steel vessel rated at 50 psi.
- Industrial grade brass 3-way ball valves and Sch. 80 PVC face piping.
- Close coupled, bronze constructed centrifugal pump, TEFC motor and Noryl pre-strainer with clear lid.
- Skid - fusion bonded polyester coated carbon steel.
- Automatic option includes: NEMA 3R control cabinet, door disconnect switch, motor short circuit/overload protection, electric actuator, step-down transformer, pressure differential switch, adjustable solid state timer and 24 hr. backwash clock.

MODEL	FLOW RATE	FILTRATION AREA	VALVE SIZE	MOTOR	DIMENSIONS			WEIGHT, LBS	
					L	H	W	Shipping	Oper.
Number	GPM	Sq. Ft.	Inches	HP					
PF-2012	15	0.78	1.0	1.0	36"	41"	24"	370	420
PF-2018	35	1.77	1.5	1.0	42"	41"	30"	540	700
PF-2024	65	3.14	1.5	2.0	49"	42"	35"	850	1060
PF-2030	100	4.91	2.0	2.0	56"	43"	40"	970	1290

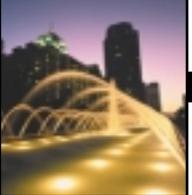
PF-30 SERIES - Designed For Higher Pressure Applications - 100 PSI

Ref. S-30



- Available in flow rates of 15, 35, 65, 100, 140 and 190 GPM.
- Positive filtration down to 10 micron (5 micron optional).
- Fusion bonded epoxy lined/polyester coated carbon steel vessel rated at 100 psi (optional higher pressure ratings and ASME code stamp available).
- Industrial grade brass 3-way ball valves and Sch. 80 PVC face piping.
- Close coupled, end suction centrifugal pump & TEFC motor with CI pre-strainer & SST basket.
- Skid - fusion bonded polyester coated carbon steel.
- Automatic option includes: NEMA 3R control cabinet, door disconnect switch, motor short circuit/overload protection, electric actuator, step-down transformer, pressure differential switch, adjustable solid state timer and 24 hr. backwash clock.

MODEL	FLOW RATE	FILTRATION AREA	VALVE SIZE	MOTOR	DIMENSIONS			WEIGHT, LBS	
					L	H	W	Shipping	Oper.
Number	GPM	Sq. Ft.	Inches	HP					
PF-3012	15	0.78	1.0	1.0	36"	41"	27"	400	450
PF-3018	35	1.77	1.5	1.0	42"	41"	32"	600	760
PF-3024	65	3.14	1.5	2.0	49"	42"	35"	930	1190
PF-3030	100	4.91	2.0	2.0	56"	43"	40"	1120	1470
PF-3036	140	7.10	2.5	3.0	66"	48"	48"	1750	2290
PF-3042	190	9.60	3.0	5.0	74"	50"	52"	2400	3110



PF-40 SERIES - Designed For Larger Process And Industrial Applications

Ref. S-40



- Available in flow rates from 65 to 1,000 GPM.
- Positive filtration down to 10 micron (5 micron optional).
- Fusion bonded epoxy lined/polyester coated carbon steel vessel rated at 50 psi (optional higher pressure ratings and ASME code stamp available).
- Cast iron lugstyle butterfly valves with aluminum bronze disc.
- Automatic option includes: NEMA 3R control cabinet, door disconnect switch, pressure differential switch, pneumatic actuator, adjustable solid state timer and 24 hr. backwash clock.
- Optional pump, pre-strainer, face piping and skid are available.

MODEL	FLOW RATE	FILTRATION AREA	VALVE SIZE	DIMENSIONS			WEIGHT, LBS	
				L	H	W	Shipping	Oper.
Number	GPM	Sq. Ft.	Inches					
PF-4024	65	3.14	2.0	48"	62"	34"	1100	1610
PF-4030	100	4.91	2.0	54"	64"	38"	1850	2700
PF-4036	140	7.10	3.0	60"	66"	44"	2245	3740
PF-4042	190	9.60	3.0	70"	80"	48"	3925	6290
PF-4048	250	12.60	4.0	76"	82"	54"	5185	8290
PF-4054	315	15.90	4.0	82"	82"	58"	6685	10615
PF-4060	390	19.60	4.0	88"	84"	64"	8400	13500
PF-4066	475	23.80	4.0	94"	86"	68"	10360	16445
PF-4072	565	28.30	6.0	105"	88"	74"	13100	20600
PF-4078	665	33.20	6.0	108"	90"	80"	16030	25280
PF-4084	770	38.50	6.0	116"	92"	86"	19600	30435
PF-4090	885	44.20	6.0	124"	94"	92"	22350	35000
PF-4096	1000	50.30	8.0	132"	100"	98"	28975	43585

PF-50 SERIES - Designed For Closed Loop HVAC Applications

Ref. S-50



- Available in flow rates of 15, 35, 65, 100, 140 and 190 GPM.
- Positive filtration down to 5 micron.
- Fusion bonded epoxy lined/polyester coated carbon steel vessel rated for 150 psi at 150° F (optional higher pressure ratings and ASME code stamp available).
- Industrial grade brass 2-way ball valves (model PF-5036 & 5042 equipped with cast iron butterfly valves).
- Automatic option includes: NEMA 3R control cabinet, door disconnect switch, electric actuators, adjustable solid state timer and 24 hr. backwash clock.
- Optional pump, pre-strainer, face piping and skid are available.

MODEL	FLOW RATE	FILTRATION AREA	VALVE SIZE	DIMENSIONS			WEIGHT, LBS	
				L	H	W	Shipping	Oper.
Number	GPM	Sq. Ft.	Inches					
PF-5012	15	0.78	1.0	25"	39"	27"	300	350
PF-5018	35	1.77	1.5	31"	39"	30"	480	640
PF-5024	65	3.14	1.5	37"	40"	34"	700	960
PF-5030	100	4.91	2.0	44"	40"	39"	860	1210
PF-5036	140	7.10	2.5	55"	46"	48"	1350	1890
PF-5042	190	9.60	3.0	62"	50"	52"	2050	2760



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