

Fiberglass Regenerative Media Filter - PMF-FRP Series

Function

Regenerative media filtration is an advanced filtration process that uses a thin perlite "precoat" layer to filter microscopic particulates. Regenerative media technology is commonly used in ultra-pure drinking water filtration due to its high performance and space-saving design.

Fully automated smart filter controller with a flow meter, temperature monitoring, valve status, soil level alerts, performance trends, and remote access. It doesn't require a backwash line, and all components can be serviced without entering the tank.



Specifications

Filtration Rate

20.35 - 61.05 lpm/m2

Controller Voltage

120 / 230V AC, (50 - 60Hz)

Controller circuit protection:

15 A

Air Compressor Power

2.5HP per filter

Compressed Air Req.

120 PSI

Tank Material: Fibreglass (FRP)

Controller: Touchscreen

Vacuum System : Yes

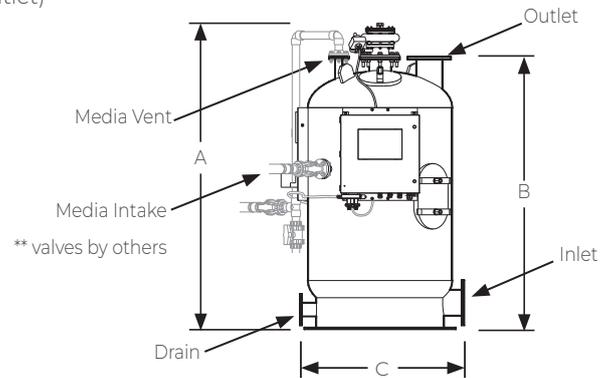
Flow Sensor : Yes (Inlet)

Pressure Transducer : Yes (Inlet / Outlet)

Certification

NSF/ANSI Standard 50

ASME, PED, SQL code certified



Model No.	Filter Area (ft2)	Flow Rate 1.22 - 3.66 m3/hr/m2	Inlet Flange	Outlet Flange	Drain Flange	Media Vent & Intake	A (mm)	B (mm)	C (mm)	Perlite media (Kg)	Filter Cleaner (L)
PMF-30-100-FRP	100 [9.3 m2]	11.3 - 34.0	DN150	DN150	DN80	DN40	2191	1972	911	3.6	3.8
PMF-30-200-FRP	200 [18.6 m2]	22.7 - 68.1	DN150	DN150	DN80	DN40	2191	1972	911	7.2	7.6
PMF-30-300-FRP	300 [27.9 m2]	34.0 - 102.2	DN150	DN150	DN80	DN40	2191	1972	911	10.8	7.6
PMF-36-400-FRP	400 [37.1 m2]	45.4 - 136.2	DN150	DN150	DN80	DN40	2198	1980	911	16.3	11.3
PMF-36-500-FRP	500 [46.4 m2]	56.7 - 170.3	DN150	DN150	DN80	DN40	2198	1980	911	18.1	11.3
PMF-42-600-FRP	600 [55.7 m2]	68.1 - 204.4	DN200	DN200	DN100	DN40	2441	2146	1063	21.7	15.1
PMF-42-700-FRP	700 [65.0 m2]	79.4 - 238.4	DN200	DN200	DN100	DN40	2441	2146	1063	25.4	15.1
PMF-48-800-FRP	800 [74.3 m2]	90.8 - 272.5	DN200	DN200	DN100	DN40	2470	2251	1216	29.0	18.9
PMF-48-900-FRP	900 [83.6 m2]	102.2 - 306.6	DN200	DN200	DN100	DN40	2470	2251	1216	32.6	18.9
PMF-54-1000-FRP	1000 [92.9 m2]	113.5 - 340.3	DN250	DN250	DN100	DN40	2514	2295	1368	36.2	30.3
PMF-54-1200-FRP	1200 [111.5 m2]	136.2 - 408.8	DN250	DN250	DN100	DN40	2514	2295	1368	43.5	30.3
PMF-60-1400-FRP	1400 [130.0 m2]	158.9 - 476.9	DN300	DN300	DN100	DN40	2605	2386	1385	50.8	37.8
PMF-60-1600-FRP	1600 [148.6 m2]	181.7 - 545.11	DN300	DN300	DN100	DN40	2605	2386	1385	58.0	37.8

Regenerative Media Filter	PMF Series	Model No. PMF	Rev. 1	
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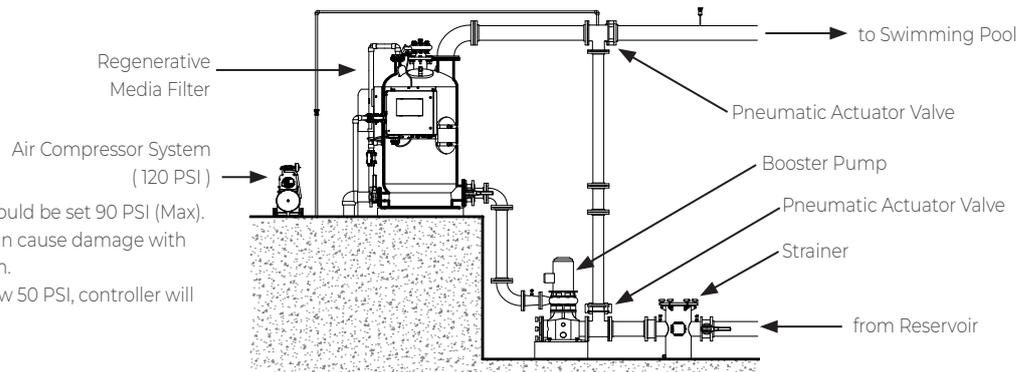
1. Never run the system without the proper amount of perlite. Doing so without any or the right amount could foul elements and cause performance issues and loss of temporary filter area.
2. Over inflation of pulse tire can cause component damage and failure of the system.
3. The media loading system is rated for indoor use only. If filter is installed outside, the loading system must be enclosed for protection from natural elements.
4. Always ensure that all valves are installed and operating correctly before operating filter. Perlite can discharge to the pool if the pneumatic valves do not operate correctly or seal during the pre-coat cycle.
5. Make sure filter is level before anchoring. Failure to do so can cause internal damage.
6. The pressure differential should never reach 15 PSI or higher. Change media at 10 PSI (recommended pressure). Exceeding these pressure differentials may damage the tube elements and void the warranty on the filter.

Typical Installation and Schematic diagram

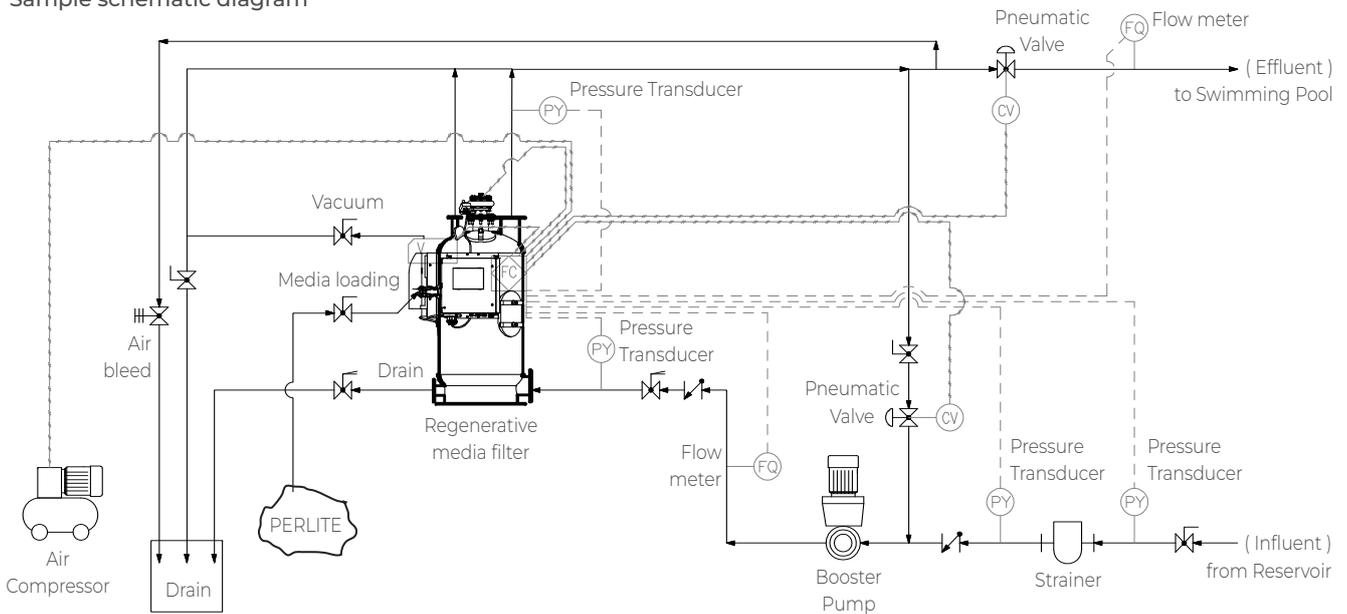
Typical Installation



* Air regulator should be set 90 PSI (Max). Over pressure can cause damage with pulse mechanism.
 * if Air drops below 50 PSI, controller will shut off.



Sample schematic diagram



Accessories (Spare Parts)



Perlite
 * MDP-125 = 12 lbs (5.4 Kg) bag
 * MDP-225 = 25 lbs (11.4 Kg) bag



Regenerative Media Filter Cleaner
 * PMC-1 = 1 gal (3.8 L)
 * PMC-5 = 5 gal (18.9 L)

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