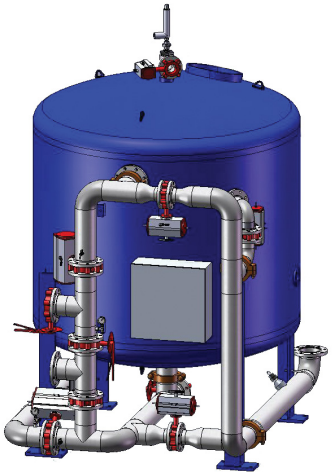
Vantage® Pre-Treatment-Industrial (PTI) series multimedia filters

High flow systems



Simplex multimedia filter

Vantage Pre-Treatment–Industrial (PTI) series multimedia filters by Xylem offer a flexible, reliable and feature-rich way to remove particulate matter from your feedwater. These systems are available in simplex, duplex or triplex configurations, and are pre-engineered, preassembled and factory-tested units to minimize installation and startup time. Each configuration is controlled by a main control panel with solenoid panels on the other vessels. Multimedia filters are available in either PVC or 316L stainless steel face piping and internals. Vessel diameters range from 72" to 120" and have a common 60" side sheet for high flow systems.

Vantage PTI high flow multimedia filters are available in three models:

- **Plus (P)** - controlled by Xylem PLC and user friendly touch screen HMI, PVC face piping and internals
- **Deluxe (D)** - controlled by Xylem PLC and user friendly touch screen HMI, 316L stainless steel face piping and PVC internals
- **Select (S)** - controlled by Xylem PLC and user friendly touch screen HMI, 316L stainless steel face piping and internals; turbidity meter comes standard with this model.

Air scour is also available with all models. The select model comes standard with 316L stainless steel air scour laterals. The plus and deluxe models can be ordered with these laterals as an option. All Models come equipped with the drain down piping, which is controlled by the main control panel. A dry contact closure is available for controlling the customer-provided air source.

Features

- Separate source backwash option
- Adjustable drain line flow control
- 2006 IBC Seismic rating for anchorage
- Turbidity meter option on plus & deluxe models
- Thermal pressure relief valve
- Available in ASME code or non-code vessels
- Largest 120" system meets highway transportation requirements
- Larger 14" x 18" man way
- 96" and 120" vessels have a 14" x 18" man way on the side sheet
- 3" sluice port
- Carbon steel – epoxy lined and coated vessels
- Common control available in either Siemens® or Allen-Bradley® PLC/HMI

Benefits

- Fully automated air scour to minimize backwash time and water usage
- Automated vent for easy start up and fast drain down
- Sight glass on drain line to minimize backwash water usage
- Fast delivery to meet demanding schedules

The plus, deluxe and select models are available in five operational flow configurations depending on the number of vessels:

- **Simplex operation –** single vessel operation
- **Duplex alternating** – one vessel on, one vessel in standby
- **Parallel –** all vessels working together
- **2 + 1 –** two vessels working and one vessel in stand y for back wash support
- **Pro flow –** duplex 1+1 or triplex 1+1+1. One vessel will be active, and the second vessel (duplex configuration) and third vessel (triplex configuration) are in standby. When flow set points are reached, the additional vessel(s) will come on line, and as the flow drops the vessel(s) will revert to standby mode. These set points are configurable.

Specifications plus, deluxe and select high flow models

	Width (in)	Depth (in)	Height (in)	Ship height (in)	Operating weight deluxe & select models (lb)	Operating weight plus model (lb)
72x60	73	91	136	116	13,835	13,632
84x60	84	106	141	121	16,652	16,117
96x60	108	113	142	122	25,087	24,482
120x60	128	146	152	132	37,672	36,866

Vantage Pre-Treatment-Industrial (PTI) series multimedia filters high flow systems*

	Pipe size PVC	Pipe size SS	Min. flow rate @ 2 gpm/ft^2	Recommended max flow rate @ 15 gpm/ft^2	Tank diameter (in)	Tank shell height (ft)	Area (ft^2)	% media free-board	Active media depth (in)	Backwash flow @ 20.7 gpm/ft^2 @ 85° F
PTIMxxx72x60	6	4	57	424	72	5	28.3	100%	30	585
PTIMxxx84x60	6	6	77	577	84	5	38.5	100%	30	797
PTIMxxx96x60	6	6	101	754	96	5	50.3	100%	30	1,041
PTIMxxx120x60	8	8	157	1,178	120	5	78.5	100%	30	1,626

* For duplex systems, double flows/quantities; for triplex systems, triple flows/quantities

Conversion factors:
1" = 2.54 cm
1 gpm = 3.79 liters per minute
1 gpm = .2271 meters^3 per hour

X X X
- ASME/Non-Code Vessel (A, N)
- Vessel configurations (S - Simplex, D - Duplex, T - Triplex)
- Model (P - Plus, D - Deluxe, S - Select)

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