Vantage® PTC multi-media filters

Vantage® PTC series multi-media filters for commercial applications offer a flexible, reliable and feature-rich solution to reduce the amount of suspended solids in feed water by filtering the water through a multilayered filter bed. Multimedia filters are necessary to remove these suspended solids that can clog or minimize the effectiveness of other sensitive downstream devices.

Multi-media vessel diameters range from 10" (25.4 cm) to 48" (122 cm). Each multi-media filter contains Anthracite, Quartz and Garnet filtration media. Vantage PTC multi-media filters are available in two models—plus, and deluxe:

- **Plus**—Controlled by mechanical time clock and a lead free brass valve (1.5" valves are Stainless Steel)
- **Deluxe**—Controlled by a feature-rich digital controller and a lead free brass valve (1.5" valves are Stainless Steel)

Deluxe model

Deluxe models are available in three operational flow configurations depending on the number of vessels:

- **Simplex operation**—single vessel operation
- **Parallel**—all vessels (2–4) working together
- **Demand flow**—(X+N) two, three or four vessels working together as flow increases and then vessels are placed in stand-by as flow decreases

Deluxe models are also available with a side mount valve configuration on the 36", 42" and 48" diameter vessels (available in 3" valve size only).

- Minimizes climbing up a ladder to service the valve, enhancing safety
- Provides for more even flow through the media bed on larger diameter vessels

Plus model

The plus model will only operate in the following flows:

- **Simplex operation**—single vessel operation. Multiple simplex units may be purchased to work together, however they will not function as one system as with the deluxe model. A system lockout is available.



Vantage PTC system features

- Optional differential pressure switch
- 24vdc systems with UL® and cUL® listed power supply
- Feature-rich digital controller for networked systems (deluxe only)
- Tanks and valves are NSF/WQA* approved
- Corrosion-resistant fiberglass vessels

Vantage PTC system benefits

- Minimizes backwash and water usage while maximizing duration between backwashes
- Complies with regulatory and safety requirements
- Offers maximum operational flow and configuration flexibility to the customer
- Requires stringent testing for leaching of contaminates, providing a safe system
- Prevents rust and increases longevity of the vessel

*NSF (National Science Foundation), WQA (Water Quality Association)

Specifications*

Multimedia filter	Vessel diameter (in)	Media height (in)	Area (ft^2)	Min flow rate (2 gpm/ft^2)	Nominal flow rate (10 gpm/ft^2)	Max flow rate (20 gpm/ft^2)	Plus/deluxe valve size (in)
PTCMS_xx10X54	10	35	0.5	1.1	5.5	10.9	1
PTCMS_xx12X52	12	32	0.8	1.6	7.9	15.7	1
PTCMS_xx14X65	14	31	1.1	2.1	10.7	21.4	1/1.5
PTCMS_xx16X65	16	34	1.4	2.8	14	27.9	1/1.5
PTCMS_xx18X65	18	37	1.8	3.5	17.7	35.3	1.5/2
PTCMS_xx21X62	21	32	2.4	4.8	24.1	48.1	1.5/2
PTCMS_xx24X65	24	36	3.1	6.3	31.4	62.8	1.5/2
PTCMS_xx30X72	30	34	4.9	9.8	49.1	98.2	2/3
PTCMS_xx36X72	36	35	7.1	14.1	70.7	141.4	2/3
PTCMS_xx42X72	42	36	9.6	19.2	96.2	192.4	3
PTCMS_xx48X72	48	35	12.6	25.1	125.7	251.3	3

These calculations are based on a Simplex system. Use the appropriate multiplier for duplex, triplex and quadplex systems based on operational flow. To calculate metrics: 1 inch equals 2.54 centimeter, 1 gallon per minute equals 3.79 liters per minute.

– Defines the trim package selected (p-plus, d-deluxe)
xx Defines the system type or operational flow
* Flow rates can vary based on valve size and trim package selected

Nominal design parameters

Configurations	Simplex, duplex, triplex or quadplex
Inlet pressure	30 psig minimum
Inlet temperature	65° F
Sizing	4–15 gpm/ft^2
Bed depth	31–37 in
Freeboard	27–45% of tank volume
Particulate capacities	0.5 lbs/ft^2 approximate
Backwash	15 gpm/ft^2 (30% bed expansion @ 60–70° F)

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Softener services available

- Annual service contracts
- WaterComplete™ contracting services
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