



Deluxe Quadplex Configuration

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 multi-layered 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" (25.4cm) to 48" (122cm). Each multi-media filter contains Anthracite, Quartz and Garnet filtration media.

Vantage PTC multi-media filters are available in three models: Economy, Plus, and Deluxe.

- Economy - Controlled by a digital controller and composite valve
- Plus - Controlled by mechanical time clock and a lead free brass valve
- Deluxe - Controlled by a feature-rich digital controller and a lead free brass valve

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
- X + N - two, three or four vessels working together as flow increases and then vessels are placed in stand-by as flow decreases

VANTAGE PTC SYSTEM FEATURE

- Optional differential pressure switch
- 24vac systems with UL® & cUL® Listed transformers
- Feature-rich digital controller for networked systems
- 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 contaminants, providing a safe system
- Prevents rust and increases longevity of the vessel

* NSF = National Science Foundation
WQA = Water Quality Association

Deluxe models are also available with a side mount valve configuration on the 36", 42" and 48" diameter vessels.

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

The Economy and Plus models 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.

NOMINAL DESIGN PARAMETERS

Configurations	Simplex, Duplex, Triplex or Quadplex
Inlet Pressure	30 psig minimum
Inlet Temperature	65° F
Sizing	8 - 10 gpm/ft ²
Bed Depth	31 to 37 inches
Freeboard	27 to 45% of tank volume
Particulate Capacities	0.5 lbs/ft ² approximate
Backwash	15 gpm/ft ² (30% bed expansion @ 60-70°F)

SPECIFICATIONS *

Multimedia Filter	Vessel Diameter	Media Height (inches)	Area (ft ²)	Min Flow Rate (2 gpm ft ²)	Nominal Flow Rate (10 gpm ft ²)	Max Flow Rate (20 gpm ft ²)	Economy Valve size	Plus & Deluxe Valve Size options
PTCMS_xx10X54	10	35	0.5	1.1	5.5	10.9	1"	1"
PTCMS_xx12X52	12	32	0.8	1.6	7.9	15.7	1"	1"
PTCMS_xx14X65	14	31	1.1	2.1	10.7	21.4	1"	1" / 1.5"
PTCMS_xx16X65	16	34	1.4	2.8	14.0	27.9	1"	1" / 1.5"
PTCMS_xx18X65	18	37	1.8	3.5	17.7	35.3	1.5"	1.5" / 2"
PTCMS_xx21X62	21	32	2.4	4.8	24.1	48.1	N/A	1.5" / 2"
PTCMS_xx24X65	24	36	3.1	6.3	31.4	62.8	N/A	1.5" / 2"
PTCMS_xx30X72	30	34	4.9	9.8	49.1	98.2	N/A	2" / 3"
PTCMS_xx36X72	36	35	7.1	14.1	70.7	141.4	N/A	2" / 3"
PTCMS_xx42X72	42	36	9.6	19.2	96.2	192.4	N/A	3"
PTCMS_xx48X72	48	35	12.6	25.1	125.7	251.3	N/A	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 (E-Economy, P-Plus, D-Deluxe).

xx defines the System Type or Operational Flow

* Flow rates can vary based on Valve Size and Trim Package selected

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