



Deluxe Triplex Configuration

VANTAGE® PTC CARBON FILTERS

Vantage® PTC carbon filters for commercial applications offer a flexible, reliable and feature-rich solution to remove Chlorine and Chloramines. They also reduce organics from your feed water - substances that are harmful to RO membranes and other sensitive downstream devices.

Carbon filter vessel diameters range from 10" (25.4cm) to 48" (122cm). Each carbon filter contains acid washed granular activated carbon media.

Vantage PTC carbon 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

The Deluxe models are available in four vessel configurations: Simplex, Duplex, Triplex and Quadplex.

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 FEATURES

- 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	1 - 3 gpm/ft ³
Bed Depth*	35 to 49 inches
Freeboard	33 to 45% of tank volume
Backwash	12.8 gpm/ft ²

SPECIFICATIONS *

Carbon Filter	Vessel Diameter	Media Height (inches)	Media Volume (ft ³)	Min Flow Rate (.5 gpm ft ³)	Nominal Flow Rate Chloramine Removal (.75 gpm ft ³)	Nominal Flow Rate TOC Removal (1 gpm ft ³)	Nominal Flow Rate Chlorine Removal (3 gpm ft ³)	Temporary Max Flow Rate (6 gpm ft ³)	Economy Valve size	Plus & Deluxe Valve Size options
PTCCS_xx10X54	10	37	1.7	1.1	1.1	1.5	4.5	9.0	1"	1"
PTCCS_xx12X52	12	35	2.3	1.6	1.5	2.0	6.0	12.0	1"	1"
PTCCS_xx14X65	14	38	3.4	2.1	2.3	3.0	9.0	18.0	1"	1" / 1.5"
PTCCS_xx16X65	16	40	4.6	2.8	3.0	4.0	12.0	24.0	1"	1" / 1.5"
PTCCS_xx18X65	18	46	6.8	3.5	4.5	6.0	18.0	36.0	1.5"	1.5" / 2"
PTCCS_xx21X62	21	45	9.0	4.8	6.0	8.0	24.0	48.0	N/A	1.5" / 2"
PTCCS_xx24X65	24	49	12.8	6.3	8.3	11.0	33.0	66.0	N/A	1.5" / 2"
PTCCS_xx30X72	30	48	19.8	9.8	12.8	17.0	51.0	102.0	N/A	2" / 3"
PTCCS_xx36X72	36	48	28.0	14.1	18.0	24.0	72.0	144.0	N/A	2" / 3"
PTCCS_xx42X72	42	46	36.5	19.2	24.0	32.0	96.0	192.0	N/A	3"
PTCCS_xx48X72	48	46	48.5	25.1	31.5	42.0	126.0	252.0	N/A	3"

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

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