



Simplex Carbon Filter

VANTAGE® PRE-TREATMENT - INDUSTRIAL (PTI) SERIES CARBON FILTERS

HIGH FLOW SYSTEMS

Vantage® Pre-Treatment – Industrial (PTI) series carbon filters by Evoqua Water Technologies offer a flexible, reliable and feature-rich way to remove Chlorine, Chloramines and reduce organics from your feed water. PTI systems are available in a Simplex, Duplex or Triplex configuration, and the pre-engineered, pre-assembled and factory-tested units minimize installation and startup time. Each configuration is controlled by a main control panel with solenoid panels on the other vessels. Carbon filters are available in either PVC or 316L Stainless Steel face piping and internals. Vessel diameters range from 72" (182.88 cm) to 120" (304.8 cm) for high flow systems. Each carbon filter contains granular activated carbon media.

The Vantage PTI High Flow Carbon Filter comes in three models:

- **Plus (P)** - Controlled by Evoqua PLC and user friendly touch screen HMI, PVC face piping and internals
- **Deluxe (D)** - Controlled by Evoqua PLC and user friendly touch screen HMI, 316L SS face piping and PVC internals
- **Select (S)** - Controlled by Evoqua PLC and user friendly touch screen HMI, 316L SS face piping and internals; Chlorine monitor comes standard with this model.

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 by for back wash support
- **Pro Flow** – two vessels working and the third vessel in stand by, for when demand requires additional water from the third vessel

Features

- Separate source backwash option
- Adjustable drain line flow control
- 2006 IBC Seismic rating for anchorage
- Chlorine monitor 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" (35.56 x 45.72 cm) man way
- 96" (243.84 cm) and 120" vessels have a 14" x 18" man way on the side sheet
- 3" (7.62 cm) sluice port
- Carbon Steel – Epoxy lined and coated vessels
- Common control available in either Evoqua or Allen-Bradley® PLCs

Benefits

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

SPECIFICATIONS PLUS, DELUXE AND SELECT HIGH FLOW MODELS

	Width		Depth		Height		Ship Height		Operating Weight	
	in	cm	in	cm	in	cm	in	cm	lb	kg
72x72	73	185	92	234	148	376	128	325	16273	7397
84x84 *	84	213	106	269	163	414	106	269	24976	11354
96x96 *	108	274	113	287	178	452	113	287	36278	16491
120x96 *	128	325	146	371	188	478	146	371	55007	25004

* Vessels Shipped on Side

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	Pipe Size PVC	Pipe Size SS	Nominal Flow for Chloramine Removal @ 1 gpm/cuft	Nominal Flow for Chlorine Removal @ 3 gpm/cuft	Tank Diameter (in)	Tank Shell Height (ft)	Area (sqft)	% Media Free-board	Media (cuft)	Active Media Depth (in)	Backwash Flow @ 14.8 gpm/sqft @ 85°F
PTICxxx72x72	6	4	105	315	72	6	28.3	50%	105.0	44.6	404
PTICxxx84x84	6	6	168	504	84	7	38.5	50%	168.0	52.4	550
PTICxxx96x96	6	6	253	759	96	8	50.3	50%	253.0	60.4	719
PTICxxx120x96	8	8	394	1182	120	8	78.5	50%	394.0	60.2	1123

* For Duplex systems double flows / quantities; for Triplex systems triple flows / quantities



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