



Triplex Multimedia Filters

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

LOW/MEDIUM FLOW SYSTEMS

Vantage® Pre-Treatment - Industrial (PTI) series multimedia filters by Evoqua Water Technologies offer flexible, reliable and feature-rich removal of particulate matter from your feed water. PTI systems are available in Simplex, Duplex or Triplex configurations that are all skid mounted, and these pre-engineered, pre-assembled and factory-tested units minimize installation and startup time. Each configuration shares a common control platform and is available in either PVC or 316L Stainless Steel face piping. Vessel diameters range from 24" to 60" for low and medium flow systems.

Vantage PTI Multimedia Filters are available in four models:

- **Economy (E)** - Controlled by a stager, PVC face piping, Simplex and Duplex, non code vessel
- **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; turbidity meter comes standard with this model.

Plus, Deluxe and Select models are available in all three vessel configurations - Simplex, Duplex and Triplex - and can be ordered in non-code or ASME code vessels.

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** - 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.

The Economy model will only operate in the following flows:

- **Simplex Operation** - single vessel operation
- **Duplex Parallel** - two vessels working together

Features

- Reversible feed connections
- Separate source backwash manifold option
- Adjustable drain line flow control
- 2006 IBC Seismic rating for anchorage
- Turbidity meter option on Plus & Deluxe models
- Thermal pressure relief valve
- Carbon Steel - epoxy lined and coated vessels
- Common control available in either Siemens® or Allen-Bradley® PLC/HMI

Benefits

- Condensed footprint to save space
- Automated vent for easy start up
- Sight glass on drain line to minimize backwash water usage
- Fast delivery to meet demanding schedules

SPECIFICATIONS LOW/MEDIUM FLOW SYSTEMS

| | Multimedia Filters - Plus, Deluxe and Select | | | Multimedia Filters - Economy | |
|---------------------|--|-------------------|--------------------|------------------------------|-------------------|
| | Simplex W x D x H | Duplex W x D x H | Triplex W x D x H | Simplex W x D x H | Duplex W x D x H |
| PTIMxxx24x48 | 41 x 49 x 91 in | 70 x 49 x 95 in | 98 x 49 x 95 in | 47 x 46 x 75 in | 103 x 46 x 75 in |
| Operating Weight | 1,977 lbs | 3,641 lbs | 6,567 lbs | 1,826 lbs | 3,467 lbs |
| PTIMxxx30x60 | 46 x 59 x 108 in | 89 x 59 x 112 in | 129 x 61 x 112 in | 48 x 52 x 91 in | 190 x 56 x 91 in |
| Operating Weight | 3,460 lbs | 6,741 lbs | 9,786 lbs | 3,223 lbs | 6,287 lbs |
| PTIMxxx36x60 | 50 x 61 x 110 in | 92 x 65 x 115 in | 132 x 67 x 115 | 57 x 59 x 94 in | 128 x 61 x 94 in |
| Operating Weight | 4,684 lbs | 9,231 lbs | 13,834 lbs | 4,517 lbs | 8,862 lbs |
| PTIMxxx42x60 | 60 x 76 x 117 in | 114 x 76 x 121 in | 166 x 76 x 121 in | 57 x 59 x 101 in | 133 x 61 x 101 in |
| Operating Weight | 6,299 lbs | 12,494 lbs | 18,748 lbs | 5,949 lbs | 11,777 lbs |
| PTIMxxx48x60 | 65 x 82 x 121 in | 117 x 82 x 125 in | 169 x 83 x 125 in | 65 x 66 x 116 in | 135 x 69 x 116 in |
| Operating Weight | 8,027 lbs | 15,883 lbs | 23,763 lbs | 7,624 lbs | 15,104 lbs |
| PTIMxxx54x72 | 70 x 88 x 137 in | 137 x 90 x 143 in | 202 x 92 x 143 in | 70 x 74 x 120 in | 138 x 75 x 120 in |
| Operating Weight | 11,515 lbs | 22,953 lbs | 34,422 lbs | 10,967 lbs | 21,787 lbs |
| PTIMxxx60x72 | 69 x 99 x 140 in | 140 x 99 x 146 in | 207 x 100 x 146 in | 70 x 80 x 124 in | 141 x 81 x 124 in |
| Operating Weight | 14,311 lbs | 28,562 lbs | 428,800 lbs | 13,354 lbs | 26,666 lbs |

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

Plus, Deluxe and Select - Low/Medium Flow Systems*

| | Pipe Size PVC | Pipe Size SS | Min. Flow Rate @ 2 gpm/sqft | Recommended Max Flow Rate @ 15 gpm/sqft | Tank Diameter (in) | Tank Shell Height (ft) | Area (sqft) | % Media Free-board | Active Media Depth (in) | Backwash Flow @ 20.7 gpm/sqft @ 85°F |
|--------------|---------------|--------------|-----------------------------|---|--------------------|------------------------|-------------|--------------------|-------------------------|--------------------------------------|
| PTIMxxx24x48 | 1.5 | 1.5 | 6 | 47 | 24 | 4 | 3.1 | 60% | 30 | 65 |
| PTIMxxx30x60 | 2 | 2 | 10 | 74 | 30 | 5 | 4.9 | 100% | 30 | 102 |
| PTIMxxx36x60 | 3 | 2 | 14 | 106 | 36 | 5 | 7.1 | 100% | 30 | 146 |
| PTIMxxx42x60 | 3 | 3 | 19 | 144 | 42 | 5 | 9.6 | 100% | 30 | 199 |
| PTIMxxx48x60 | 3 | 3 | 25 | 188 | 48 | 5 | 12.6 | 100% | 30 | 260 |
| PTIMxxx54x72 | 4 | 3 | 32 | 239 | 54 | 6 | 15.9 | 140% | 30 | 329 |
| PTIMxxx60x72 | 4 | 4 | 39 | 295 | 60 | 6 | 20 | 140% | 30 | 406 |

Economy - Low/Medium Flow Systems

| | Pipe Size PVC | Pipe Size SS | Min. Flow Rate @ 2 gpm/sqft | Recommended Max Flow Rate @ 15 gpm/sqft | Tank Diameter (in) | Tank Shell Height (ft) | Area (sqft) | % Media Free-board | Active Media Depth (in) | Backwash Flow @ 20.7 gpm/sqft @ 85°F |
|--------------|---------------|--------------|-----------------------------|---|--------------------|------------------------|-------------|--------------------|-------------------------|--------------------------------------|
| PTIMExx24x48 | 1.5 | n/a | 6 | 47 | 24 | 4 | 3.1 | 60% | 30 | 47 |
| PTIMExx30x60 | 2 | n/a | 10 | 74 | 30 | 5 | 4.9 | 100% | 30 | 74 |
| PTIMExx36x60 | 2.5 | n/a | 14 | 106 | 36 | 5 | 7.1 | 100% | 30 | 106 |
| PTIMExx42x60 | 2.5 | n/a | 19 | 144 | 42 | 5 | 9.6 | 100% | 30 | 144 |
| PTIMExx48x60 | 3 | n/a | 25 | 185 | 48 | 5 | 12.6 | 100% | 30 | 188 |
| PTIMExx54x72 | 4 | n/a | 32 | 235 | 54 | 6 | 15.9 | 140% | 30 | 239 |
| PTIMExx60x72 | 4 | n/a | 39 | 290 | 60 | 6 | 20 | 140% | 30 | 295 |

* 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 meters³ per hour



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