

earth^o safe

Fuel Systems for Critical Power

MX300

MacroFlow Filter Polisher



The MX300 Filter Polisher is designed for high capacity filtration — polishing of bulk storage tanks or large generator base tanks.

Filtration / Polishing has become an important aspect of emergency power reliability: critical facilities store increasing amounts of fuel onsite to assure continuity of operation and this fuel has low turnover in operation.

- as diesel fuel ages, particulates form which can increase the wear on generator engine parts
- fuel storage tanks accumulate water through vapor condensation and this water can encourage bacterial growth
- newer diesel engines with improved emissions technology require higher purity fuel to prolong engine life.

The MX300 is packaged within our CE100 Critical System Enclosure for locations outside buildings. The CE100 is a welded steel assembly with fuel containment and leak detection. It includes lighting, heat and ventilation as required.

The mechanical design is based on Viking pumps and Racor filters and is complete with strainers, check valves, ball, valves, pressure / vacuum gauges, relief valves. The unit is mounted on an integral containment with leak detection monitoring.

The Filtration / Polisher includes a motor starter panel, or optional VFD drive, with disconnect switch. The OmniPlex Controller provides Filtration / Polisher operation and monitoring with HOA switches and an emergency stop.

Dimensions	84"Wx84"Dx84"H (2130x2130x2130) Duplex 168"Wx84"Dx84"H (4260x2130x2130)
Flow Capacity	30-300 GPM (1200-1200 LPM)
Pressure Capacity	100 PSI (690 kPa)
Pump Type	Viking Positive Displacement
Motor	TEFC
Horsepower	1.50-7.5 HP (1.10-5.59 KW)
Filter	1-25 Micron Coalescing
Standard Accessories	Inlet Strainers Outlet Check Valve Flex Connectors Leak Sensor Inlet Suction Gauges Outlet Pressure Gauges Motor Disconnect Switch Water Sensor Differential Pressure Sensor Flow Sensor
Construction	Welded Steel Construction Containment Basin 150 GAL (600 L) Industrial Enamel Finish Color RAL 180-3 (Light Blue) Option: Weatherproof Enclosure
Controls	C800 OmniPlexPlex (UL) C230 PowerFlow Motor Starters
Optional Accessories	01 Water Storage System 02 Bio Storage System 03 Add Electronic Meter

Ordering Information

MX300.YY.XXX.MM

YYY=Rated Flow 30-300 GPM
(120-1200 LPM)

XXX=116 120 VAC – 1 PH – 60 Hz
XXX=215 240 VAC – 1 PH – 50 Hz

MM=01 1 Micron Filter / Separator
MM=05 5 Micron Filter / Separator
MM=10 10 Micron Filter / Separator
MM=25 25 Micron Filter / Separator