

The OptiPure M-Series is a compact, self-contained, advanced membrane separation system. The OptiPure M-Series utilizes advanced selective rejection membranes to produce a large amount of optimized purity water relative to its size. The standard membrane provides 90-95% rejection of feedwater contaminants with virtually all of the hardness minerals rejected. The system also removes foul tastes, odors, scale-causing minerals, chlorine, chlorides, sulfates and many other contaminants, yet leaves a trace of minerals to prevent the problems associated with very pure water with little or no conductivity. (e.g. RO, distilled or deionized water.)

Unique, compact design with large storage capacity makes this system ideal for many small commercial, industrial and lab applications. Ideal applications include the foodservice industry for steamers, espresso machines, ice-machines, proofers and ovens that experience water related failures due to lime-scale build-up. This system will remove virtually all of the scaling minerals without adding anything to the water. Another ideal application for the M-Series is in the graphic arts industries, where hardness and alkalinity can cause real problems with chemistries used in the printing processes.

Pump driven for reliable performance under any conditions. The OptiPure M-Series utilizes a pump to feed the selective rejection membranes to provide up to 150 gallons of optimized purity water/day*. The small, efficient diaphragm pump boosts the line pressure to 80 psi allowing a tank full shut-off of 60 psi. The unique design incorporates the storage tank, pump, membrane and prefilters into one assembly allowing for a very quick and easy installation. Tanks are equipped with a pressurized bladder that can provide outlet water pressure between 40 and 60 psi.



OptiPure M-Series

**Optimum Purity Water
for low volume
applications.**

OptiPure M-Series Specifications

Model	Dimensions	Weight	Tank
OPM 80/10	17" wide x 22" deep x 37" high.	60lbs.	10 gal. Tank
OPM 150/10	17" wide x 22" deep x 37" high.	60lbs.	10 gal. Tank
OPM 80/25	22" wide x 27" deep x 41" high.	110lbs.	25 gal. Tank
OPM 150/25	22" wide x 27" deep x 41" high.	110lbs.	25 gal. Tank
OPM 80/50	26" wide x 31" deep x 52" high.	150lbs.	50 gal. Tank
OPM 150/50	26" wide x 31" deep x 52" high.	150lbs.	50 gal. Tank

Operating parameters:

Production: OPM 80	80 gpd*, 3.3 gph (300 lpd, 12.5 lph)
Production: OPM 150	123 gpd*, 5.1 gph (465 lpd, 19 lph)
Typical TDS rejection	Low: 45-65%, Med: 85-95%. Hi 98+% **
Feed Temperature	40 - 100° F (4 - 38° C)
Feed pressure	0 - 75 psi at .5 gpm

* Production measured @ 65°F

** Three different membranes offer three different rejection profiles.
Rejection of scale forming minerals is typically > 95%.

Electrical: 115 VAC, 60 hz, 2A

Feedwater Inlet: 3/8" OD Polyethylene tubing. (8' of tubing included in installation package). User provides a 1/2" FPT connection on water supply with full-flow ball valve. A 1/2" MPT x 3/8" speedfit tubing adapter is included in the installation package.

Drain Line: 1/4" OD Polyethylene tubing (8' of tubing included with unit).

Product output: 1/2" Hose barb standard.
Optional 3/8" tubing connection available.

Pretreatment: Sediment Prefilter 10" - 1 micron PolyTrix PCG-01-98
Carbon Prefilter 10" - PCRX-10-97

Tank Construction:

NSF listed for RO Water Storage. Steel Tank with polyethylene liner, designed for storage of pure water. Butyl diaphragm design provides minimal rubber/water contact and allows for long life with complete water discharge. Steel tank has appliance-like finish. Tank pressure gauge indicates when tank is full of product water.

Options

- Different kinds of post-treatment are available for different applications.
- Additional membranes to increase production are available.
- Permeate pump to increase production.

The OptiPure M-Series is a product of:

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OptiPure Features & Benefits

▲ **Self-Contained Design.** No wall mount or multiple pieces to install, minimizes costs and time. Minimal space required. Easy to relocate in a changing environment.

▲ **Selective Rejection Membranes.** A choice of membranes allows removal of the chemicals and minerals in the water that are detrimental to the equipment. Different types of membranes including RO are available for different applications.

▲ **High Efficiency, High Flow Booster Pump.** Ensures maximum production independent of feed water pressure. Low energy consumption and run-dry capability provides a reliable, cost-efficient pump with the ability to take abuse.

▲ **Simple Installation.** Literally takes only a few minutes to install, enabling the user the flexibility to move to different locations. Reduces installation costs, minimizing initial investment.

▲ **Low-Voltage Operation.** Everything under the cover is 24 VAC for lower operating and service costs plus increased safety.

▲ **Provides Water with Near Zero Hardness.** Eliminates the scaling potential of water while leaving trace minerals for optimal results. Choice of membranes makes it ideal for a broad range of water characteristics and/or applications.