



The Culligan® M1 Series REVERSE OSMOSIS SYSTEM

Effective water treatment that is easy to manage.

The M1 Reverse Osmosis System is a cost effective water treatment solution with enhanced features, which help reduce operating and post treatment costs. The M1 Reverse Osmosis system helps you reduce maintenance costs by reducing contaminants* from your water that affect taste and clog equipment. Control your installation costs by using a system configured for your unique needs. Keep your operating costs low with an easy-to-use electronic controller.

The M1 RO is part of the Culligan® Commercial and Industrial Solutions that combine durable and efficient equipment, systems experience, and technical experts who understand your unique requirements. From planning your system to installing your water treatment equipment, Culligan® Commercial and Industrial Solutions offer options that help deliver the quality of water to meet your needs. Consult with a Culligan® representative to create your solution.

CULLIGAN® COMMERCIAL AND INDUSTRIAL SOLUTIONS ADVANTAGES:

- Simple System Integration
- Global Product Platform
- Flexible Configurations
- Quick Delivery / Easy Installation
- Culligan® CP+ Controller

*Contaminants may not necessarily be in your water.

Markets Served:

- | | |
|-------------------------------|------------------------|
| Agriculture | Hospitals / Healthcare |
| Assisted Living | Ink / Dye Production |
| Automotive | Laboratories |
| Bio-Pharmaceutical | Laundry |
| Botanicals | Manufacturing |
| Bottled Water Plants | Marine |
| Casinos | Military |
| Chemical Processing | Multi-Unit Housing |
| Commercial Buildings | Municipalities |
| Dairies | Plating / Coating |
| Educational Facilities | Printing |
| Energy / Power / Cogeneration | Pulp / Paper |
| Electronics | Oil / Petroleum / Gas |
| Government | Textile |
| Grocery | Theme Parks |
| Food / Beverage | Universities |
| Health Clubs | Vehicle Wash |
| Hotels / Lodging | |



SYSTEM SPECIFICATIONS

| Specification | US | Metric |
|--|-------------------|-------------------|
| Inlet Pressure (dynamic) | 20-50 psig | 1.4 – 3.5 bar |
| Maximum Operating Pressure | 95–225 psig | 6.6 – 15.5 bar |
| Power Voltage Frequency Phase | 115 60 Hz 1 | 115 60 Hz 1 |
| Feed Water Temperature | 33–100° F | 1-40° C |
| Turbidity, maximum | < 1 NTU | < 1 NTU |
| pH Range | 3 – 11 | 3 – 11 |
| Chlorine, max. | 0 mg/l | 0 mg/l |
| Total Dissolved Solids, max. | 2500 mg/l | 2500 mg/l |
| Silt Density Index Well Water Surface Water | < 3 < 5 | < 3 < 5 |
| Iron, maximum | < 0.1 mg/l | < 0.1 mg/l |
| Salt Rejection, nominal | > 98 % | > 98 % |
| Product Water Hardness | < 1% Raw Hardness | < 1% Raw Hardness |

Examples of RO Applications

- Ice Production / Drinking Water (Reduces scaling, improves taste and clarity)
- Steam Production (Reduces scaling and maintenance)
- Humidification (Reduces scaling and dusting)
- Misting (Reduces scaling, improves taste and clarity)
- Pretreatment for High Purity Systems (Reduces regeneration requirements)
- Reclaim / Recycling (Water conservation)
- Washing and Rinsing (Improves performance, spot-free rinses)

Standard Features

- Wall Mount Design
- Rotary Vane Pump
- Inlet Solenoid Valve
- Pretreatment Sediment Filter
- Concentrate and Recirculation
- Throttling Valves
- Pressure Indicators
- FRP Membrane Housings
- Rotameter style flow meters
- Culligan® CP Control Panel
 - Level Control Input
 - Pretreatment Lockout
 - Startup Flush/Timed Flush
 - Low Pressure Auto-Restart
 - Indicator Lights

Optional Features & Accessories

- Multi-Stage Pretreatment Filters
- Storage Tanks
- Level Controls
- Chemical Feed Pumps
- Ultraviolet Sterilization
- Pressurized Storage System
- Floor Stand
- Global Power Platform
- 220v/50HZ
- Additional Customization Available on request
- Auto Shut Down on High Product TDS



Tested and Certified by WQA to NSF/ANSI 61 and 372

M1 Reverse Osmosis System

| Model | Nominal Capacity* (gpm/lpm) | Nominal Capacity* (gpd/m ³ /h) | Module Qty & Size | Nominal System Recovery (%) | Motor HP - KW | Dimension L x W x H (inches– millimeters) |
|-------|-----------------------------|---|-------------------|-----------------------------|---------------|---|
| M1-1S | 0.17 | 250 | (1), 2.5" x 21" | 25 | 1/3 | 37 x 10 x 37.75 |
| | 0.65 | 0.04 | | | 0.25 | 940 x 254 x 959 |
| M1-2S | 0.35 | 500 | (2), 2.5" x 21" | 50 | 1/3 | 37 x 10 x 37.75 |
| | 1.31 | 0.08 | | | 0.25 | 940 x 254 x 959 |
| M1-3S | 0.52 | 750 | (3), 2.5" x 21" | 50 | 1/3 | 37 x 10 x 37.75 |
| | 1.97 | 0.12 | | | 0.25 | 940 x 254 x 959 |
| M1-4S | 0.69 | 1000 | (4), 2.5" x 21" | 50 | 1/3 | 37 x 10 x 37.75 |
| | 2.63 | 0.16 | | | 0.25 | 940 x 254 x 959 |
| M1-2L | 0.83 | 1200 | (2), 2.5" x 40" | 50 | 3/4 | 37 x 10 x 46.25 |
| | 3.15 | 0.19 | | | 0.56 | 940 x 254 x 1175 |
| M1-3L | 1.18 | 1700 | (3), 2.5" x 40" | 50 | 3/4 | 37 x 10 x 46.25 |
| | 4.47 | 0.27 | | | 0.56 | 940 x 254 x 1175 |
| M1-4L | 1.53 | 2200 | (4), 2.5" x 40" | 50 | 3/4 | 37 x 10 x 46.25 |
| | 5.78 | 0.35 | | | 0.56 | 940 x 254 x 1175 |
| M1-1F | 1.39 | 2000 | (1), 4 x 40 | 25 | 3/4 | 37 x 10 x 46.25 |
| | 5.26 | 0.32 | | | 0.56 | 940 x 254 x 159 |
| M1-2F | 2.78 | 4000 | (2), 4 x 40 | 50 | 3/4 | 37 x 10 x 46.25 |
| | 10.52 | 0.63 | | | 0.56 | 940 x 254 x 159 |

*Nominal capacity based on new RO membranes operating on a properly pretreated feed water of 500 ppm TDS as NaCl, 77 °F (25 °C), Silt Density Index (SDI) below 3, and supplying water to atmosphere. Productivity will vary depending on the actual feed water quality and temperature.



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For over 80 years, Culligan® has made better water. Our global network, comprised of 800+ dealers and international licensees in over 90 countries, is dedicated to addressing your water-related problems. As a worldwide leader in water treatment, our sales representatives and service technicians are familiar with the local water conditions in your area. Being global and local position us to deliver customized solutions to commercial and industrial water issues that affect your business and your bottom line.

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