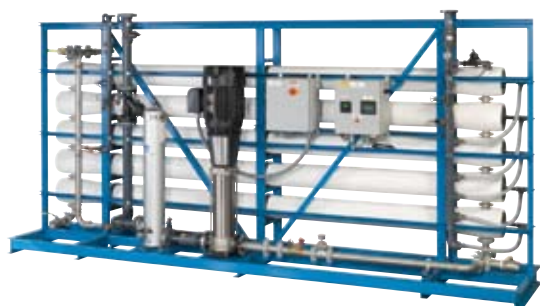




The Culligan G3 Series Reverse Osmosis System



*Shown with optional equipment

EXAMPLES OF MARKETS SERVED:

- AGRICULTURE
- AUTOMOTIVE
- BIO-PHARMACEUTICAL
- BOTTLED WATER PLANTS
- CHEMICAL PROCESSING
- DAIRIES
- ENERGY/POWER/COGENERATION
- ELECTRONICS
- FOOD/BEVERAGE
- HEALTH CLUBS
- HOSPITALS/HEALTHCARE
- HOTELS/LODGING
- LABORATORIES
- LAUNDRY
- MANUFACTURING
- MARINE
- MILITARY
- MUNICIPALITIES
- PLATING/COATING
- PULP/PAPER
- OIL/PETROLEUM/GAS
- TEXTILE
- THEME PARKS
- UNIVERSITIES

No limits for water quality at any quantity.

No limits for your water quality regardless of quantity—the Culligan G3 Reverse Osmosis system processes water to meet your most demanding and exacting industrial requirements. The durable reverse osmosis membrane processes large volume while it minimizes water waste; you can manage the system using a touch panel electronic controller. Better quality water improves industrial processes by removing impurities* that corrode and clog equipment, so your investment in the Culligan G3 RO benefits your operations for years to come.

The G3 RO is part of the Culligan® Matrix Solutions™ that combine durable and efficient equipment, systems experience, technical know-how, and partners who understand your unique requirements. From planning your system to installing your water treatment equipment, Culligan Matrix Solutions offer options that deliver the highest quality water to you. Consult with a Culligan representative to create your solution.

Matrix Solutions Advantage:

- Simple System Integration
- Global Product Platform
- Flexible Configurations
- Quick Delivery / Easy Installation
- Exclusive Culligan Advanced Electronics
 - Historical Operating Data
 - Alarm Recognitions
 - US Standard and Metric Readings
 - Remote Monitoring Options
 - Telemetry Options



Pre-Treatment
Solutions



Membrane
Solutions



Deionization
Solutions



Storage Solutions



Distribution
Solutions

System Specifications

| Specification | US | Metric |
|---|---------------------|-------------------|
| Inlet Pressure (dynamic) | 20-50 psig | 1.4 – 3.5 bar |
| Maximum Operating Pressure | 195–220 psig | 13.4 – 15 bar |
| Power Voltage Frequency Phase | 208-230-460 60 Hz 3 | 380-415 50 Hz 3 |
| 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 | 0 mg/l |
| Total Dissolved Solids, maximum | 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 |

*Nominal capacity based on new RO membranes operating on a properly pretreated feed water of 2000 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.

Note: Membrane life dependant on site specific conditions.

Examples of RO Applications

- Steam Production — Reduces scaling and maintenance
- Humidification — Reduces scaling and dusting
- Pretreatment for High Purity Systems — Reduces regeneration requirements
- Reclaim / Recycling - Water conservation
- Boiler and Cooling Towers —Improves energy, reduces chemical consumption
- Washing and Rinsing — Improves performance, spot-free rinses
- Bio-Pharmaceutical — High Quality Water
- Heavy Industrial Manufacturing
- Power Generation / Co-Generation
- High Purity Ingredient Mixing
- Beverage and Fluid Mixing
- Cooling Tower Reuse

Standard Features

- Painted Steel Skid Design
- Energy Efficient Multi-stage Stainless Steel Pump
- Stainless Steel Pump Throttling Valve
- FRP Membrane Housings
- Inlet Solenoid Valve
- Pretreatment Sediment Filter
- Concentrate and Recirculation Throttling Valves
- Product Flush Solenoid Valve
- Electronic Pressure Transducers
- Electronic Flow Meters
- Culligan Electronic Control Panel (PLC)
- Comprehensive System Monitoring
- Lighted Alphanumeric Display
- TDS Monitoring of Water Quality and Rejection
- Low Pressure Switch and Auto Restart
- Connection for Pretreatment Signal Switch and Level Control
- Elapsed run time monitor
- Visual and/or Audible Alarms
- Remote Alarm Output Connection
- System Flow Rate Monitoring
- User Selectable Flush Options

Optional Features & Accessories

- Variable Frequency Drive (VFD)
- High Pressure Pumps and Membrane Housings as Required by the Application
- Multi-Stage Pretreatment Filters
- Polypropylene, PVDF or SS Plumbing
- Wireless Remote Digital Display
- Leak Sensor
- RS232, RS485 Output
- Storage Tanks
- Level Controls
- Distribution Pump Skids
- Post Treatment Polishing Skids
- Telemetric Capability
- Chemical Feed Pumps
- Ultraviolet Sterilization
- Pressurized Storage System
- Custom Power Requirements
- Clean-in-place (CIP) System
- Additional Customization Available on Request

Series G3 Reverse Osmosis System

| Model | Nominal Capacity (GPM / LPM) | Nominal Capacity (GPD / m3/hr) | Module Qty & Size | Pressure Vessel Qty & Size | Nominal System Recovery (%) | Motor HP - KW | Electric Power Req'd (VAC) | Dimension L x W x H (inches — centimeters) |
|-----------|------------------------------|--------------------------------|-------------------|----------------------------|-----------------------------|---------------|----------------------------|--|
| G3 - 222 | 16.7 | 24,000 | (4), 8"x40" | (2), 8"x2L | 75 | 7.5 | 460/3/60Hz | 146 x 40 x 82 |
| | 63 | 3.8 | | | | 5.6 | 380V/50/3 | 371 x 102 x 208 |
| G3 - 232 | 25 | 36,000 | (6), 8"x40" | (2) 8"x3L | 75 | 10 | 460/3/60Hz | 146 x 40 x 82 |
| | 95 | 5.7 | | | | 7.46 | 380V/50/3 | 371 x 102 x 208 |
| G3 - 333 | 35 | 50,400 | (9), 8"x40" | (3), 8"x3L | 75 | 15 | 460/3/60Hz | 146 x 40 x 82 |
| | 132 | 7.9 | | | | 11.19 | 380V/50/3 | 371 x 102 x 208 |
| G3 - 433 | 50 | 72,000 | (12), 8"x40" | (4), 8"x3L | 75 | 20 | 460/3/60Hz | 146 x 40 x 82 |
| | 189 | 11.4 | | | | 14.92 | 380V/50/3 | 371 x 102 x 208 |
| G3 - 533 | 62.5 | 90,000 | (15), 8"x40" | (5), 8"x3L | 75 | 25 | 460/3/60Hz | 146 x 40 x 82 |
| | 237 | 14.2 | | | | 18.65 | 380V/50/3 | 371 x 102 x 208 |
| G3 - 543 | 84 | 120,960 | (20), 8"x40" | (5), 8"x4L | 75 | 30 | 460/3/60Hz | 194 x 46 x 82 |
| | 318 | 19.1 | | | | 22.38 | 380V/50/3 | 493 x 117 x 208 |
| G3 - 643 | 100 | 144,000 | (24), 8"x40" | (6), 8"x4L | 75 | 40 | 460/3/60Hz | 194 x 46 x 94 |
| | 379 | 22.7 | | | | 29.84 | 380V/50/3 | 493 x 117 x 208 |
| G3 - 943 | 150 | 216,000 | (36), 8"x40" | (9), 8"x4L | 75 | 50 | 460/3/60Hz | 274 x 50 x 94 |
| | 568 | 34.1 | | | | 37.3 | 380V/50/3 | 696 x 127 x 239 |
| G3 - 1243 | 200 | 288,000 | (48), 8"x40" | (12), 8"x4L | 75 | 60 | 460/3/60Hz | 274 x 70 x 90 |
| | 757 | 45.4 | | | | 44.76 | 380V/50/3 | 696 x 178 x 229 |

Finally, an end-to-end solution from a single source.

For over 70 years, Culligan's global network of over 810 dealers in 91 countries has assured the efficiency of industrial water treatment systems. As the global leader in water treatment, Culligan has dedicated service technicians in your area, who are familiar with local water quality. They are also on-call to service equipment, so you can maintain consistent production.

Consult a Culligan field professional to see how your business can improve with Culligan Matrix Solutions
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