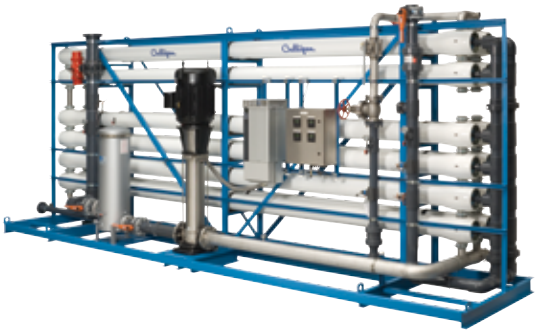
Culligan MATRIX SOLUTIONS™

The Culligan® G3 Series Reverse Osmosis System



*Shown with optional equipment

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 help meet your most demanding and exacting industrial requirements. The durable reverse osmosis membrane processes large volumes while reducing water waste; you can manage the system using a touch panel electronic controller. Better quality water improves industrial processes by reducing contaminants* 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, and technical experts who understand your unique requirements. From planning your system to installing your water treatment equipment, Culligan Matrix Solutions offer options that help deliver the quality of water to meet your needs. Consult with a Culligan representative to create your solution.

*contaminants may not necessarily be in your water

EXAMPLES OF MARKETS SERVED:

AGRICULTURE
ASSISTED LIVING
AUTOMOTIVE
BIO-PHARMACEUTICAL
BOTANICALS
BOTTLED WATER PLANTS
CASINOS
CHEMICAL PROCESSING
COMMERCIAL BUILDINGS
DAIRIES
EDUCATIONAL FACILITIES
ENERGY/POWER/ COGENERATION
ELECTRONICS
GOVERNMENT
GROCERY
FOOD/BEVERAGE
HEALTH CLUBS
HOTELS/LODGING
HOSPITALS/HEALTHCARE
INK/DYE PRODUCTION
LABORATORIES
LAUNDRY
MANUFACTURING
MARINE
MILITARY
MULTI-UNIT HOUSING
MUNICIPALITIES
PLATING/COATING
PRINTING
PULP/PAPER
OIL/PETROLEUM/GAS
TEXTILE
THEME PARKS
UNIVERSITIES
VEHICLE WASH

Culligan Matrix Solutions Advantages:

- 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

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

G3 Reverse Osmosis System

Model	Nominal Capacity* (gpm / lpm)	Nominal Capacity* (gpd / m^3/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

*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.

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

Place your commercial and industrial water treatment needs in the hands of a global leader.

For over 70 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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