



# The Culligan® G1 Series Reverse Osmosis System



## EXAMPLES OF MARKETS SERVED:

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

## Excellent water quality is a smart business decision

When you install a G1 Reverse Osmosis system, you combine cost-effective system configuration, cost-minimizing operations, and reduced post-treatment costs. The G1 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 by monitoring and changing the G1 RO settings with an easy-to-use electronic controller. Purchasing a G1 RO is more than a sound business decision—you improve the quality of life for your building.

The G1 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 quality of water to meet your needs. Consult with a Culligan representative to create your solution.

\*contaminants may not necessarily be in your water

### 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	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 and extends equipment life
- 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
- Electronic Turbine Style Flow Meters
- Culligan Electronic Control Panel
  - Telemetric Capability
  - Comprehensive System Monitoring
  - Lighted Alphanumeric Display
  - TDS Monitoring of Water Quality
  - Low Pressure Switch and Auto Restart
- Connection for Pretreatment Signal Switch and Level Control
- Elapsed run time monitor
- Visual Alarms
- Remote Alarm Output Connection
- System Flow Rate Monitoring
- User Selectable Flush Options

## Optional Features & Accessories

- Leak Sensor
- Multi-Stage Pretreatment Filters
- Wireless Remote Digital Display
- RS232, RS485 Output
- Storage Tanks
- Level Controls
- Chemical Feed Pumps
- Ultraviolet Sterilization
- Pressurized Storage System
- Floor Stand
- Global Power Platform
- 220 v/50 HZ
- Additional Customization Available on Request

## G1 Reverse Osmosis System

Model	Nominal Capacity* (gpm/lpm)	Nominal Capacity* (gpd/m3/h)	Module Qty & Size	Nominal System Recovery (%)	Motor HP - KW	Dimension L x W x H (inches– millimeters)
G1-1S	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
G1-2S	0.35	500	(2), 2.5" x 21"	25	1/3	37 x 10 x 37.75
	1.31	0.08			0.25	940 x 254 x 959
G1-3S	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
G1-4S	0.69	1000	(4), 2.5" x 21"	50	1/2	37 x 10 x 37.75
	2.63	0.16			0.37	940 x 254 x 959
G1-2L	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
G1-3L	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
G1-4L	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
G1-1F	1.39	2000	(1), 4 x 40	25	1	37 x 10 x 46.25
	5.26	0.32			0.75	940 x 254 x 159
G1-2F	2.78	4000	(2), 4 x 40	50	1	37 x 10 x 46.25
	10.52	0.63			0.75	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.

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 completely dedicated to solving any and all water-related problems. As the unrivalled worldwide leader in water treatment, our sales representatives and service technicians know the local water conditions in your area. Being global and local ensures that no one is better equipped than Culligan to deliver customized solutions to any commercial and industrial water issues that affect your business and your bottom line.

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