

GT-Series Reverse Osmosis Systems

GT-Series Reverse Osmosis Systems are designed for overall high performance, high recovery rates, minimal energy consumption and offer great savings with low maintenance and operation costs.

GT-Series Reverse Osmosis Systems feature an expandable design, exceptional pre-filtration, quality components and allow for many options and upgrades to suit most applications.



GT-Series Reverse Osmosis Systems have been engineered for capacities ranging from 30000 – 40000 gallons per day.

GT-40000
Reverse Osmosis System
Front

Benefits

- Fully Equipped and Customizable
- Expandable Design
- Components Easily Accessible
- Pre-Plumbed, Wired and Assembled
- Factory Tested and Preserved
- Low Operation Costs
- Low Maintenance Costs
- Easy Maintenance and Servicing
- CE Compliant †
- 1-Year Limited Warranty
- Made in the U.S.A.

Engineered Membrane Solutions

FLEXEON GT-Series Reverse Osmosis Systems

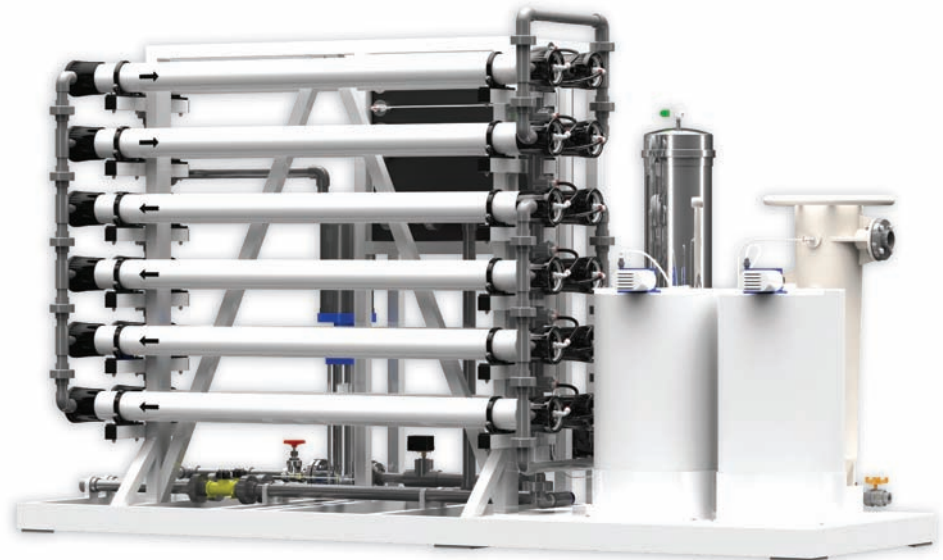
Standard Features

- Rotrol II Computer Controller
 - ◆ LCD Backlit Display
 - ◆ Pre-Treatment Lockout
 - ◆ Tank Level Input
 - ◆ LED Low Pressure Monitoring and Alarm
 - ◆ Dual TDS Monitoring
 - ◆ Feed Flush
- White Powder Coated Aluminum Frame
- Rosedale® 10 Micron Filter Bag
- Rosedale® Bag Filter Housing
- Multi-Cartridge Stainless Steel Filter Housing
- Pulsafeeder® Chemical Injection Pumps with Tanks
- Goulds® Multi-Stage Stainless Steel Booster Pump
- AXEON HF1 Low Energy Membranes
- AXEON PVC Membrane Housings
- Digital Flow Meters
- Feed Low Pressure Switch
- Feed Solenoid Valve with Manual Bypass
- Chemical Pump Outlet
- 316 Stainless Steel Concentrate Valve
- 0-300 psi Pump Pressure Gauges
- 0-100 psi Pre-Filter Pressure Gauges



GT-40000
Reverse Osmosis System

Front



Back

Options and Upgrades

- AXEON HF4 Extra Low Energy Membranes
- AXEON HF5 Ultra Low Energy Membranes
- AXEON NF3 Nanofiltration Membranes
- AXEON NF4 Nanofiltration Membranes
- Stainless Steel Membrane Housings
- Fiberglass Membrane Housings
- Concentrate Recycle Valve with Digital Flow Meter
- Rotrol II Computer Controller Expander Board
- Pump Pressure Relief Valve†
- High Pressure Tank Switch
- Blending Valve
- Permeate Sample Ports

Specifications

Models	GT-30000	GT-40000
Design		
Configuration	Single Pass	Single Pass
Feed Water Source***	TDS <2000 ppm	TDS <2000 ppm
Standard Recovery Rate†	65%	65%
Recovery with Optional Concentrate Recycle	Up to 75%	Up to 75%
Rejection and Flow Rates		
Nominal Salt Rejection %	98.5	98.5
Permeate Flow* gpm (lpm)	20.83 (78.84)	27.78 (105.15)
Minimum Feed Flow gpm (lpm)	32.05 (121.00)	42.62 (161.00)
Maximum Feed Flow gpm (lpm)	42.0 (159.00)	56.0 (212.00)
Minimum Concentrate Flow gpm (lpm)	11.22 (42.50)	14.84 (56.20)
Connections		
Feed inch	2 FLANGE	2 FLANGE
Permeate inch	1.5 FNPT	1.5 FNPT
Concentrate inch	1.5 FNPT	1.5 FNPT
Membranes		
Membrane(s) Per Vessel	2	2
Membrane Quantity	20	24
Membrane Size	4040	4040
Vessels		
Vessel Array	3:3:2:2	4:4:2:2
Vessel Quantity	10	12
Pumps		
Pump Type	Multi-Stage	Multi-Stage
Motor HP	5	7.5
RPM @ 60 (50 Hz)	3450 (2900)	3450 (2900)
Electrical		
Standard Voltage	220V, 60HZ, 3PH, 15.0A	220V, 60HZ, 3PH, 22.0A
Voltage Options	220V, 50HZ, 3PH, 16.0A 380V, 50HZ, 3PH, 9.5A 460V, 60HZ, 3PH, 8.5A	220V, 50HZ, 3PH, 23.0A 380V, 50HZ, 3PH, 12.0A 460V, 60HZ, 3PH, 11.0A
Systems Dimensions **		
L x W x H inches (cm)	134 x 43 x 81 (340 x 110 x 205)	134 x 43 x 81 (340 x 110 x 205)
Weight lbs (kg)	1500 (680)	1650 (750)

* Product Flow rates and recovery are based on equipment test parameters.

** Does not include operating space requirements.

*** Treatment ability of the RO system is dependent on feed water quality. Performance projections must be run for each installation.

Note 1: All 50Hz systems come standard with AXEON HF4 Extra Low Energy Membranes.

Operating Limits

Maximum Feed Temperature °F (°C)	85 (29.00)	Maximum Free Chlorine ppm	0
Minimum Feed Temperature °F (°C)	40 (4.44)	Maximum TDS ppm	2000
Maximum Ambient Temperature °F (°C)	120 (48.89)	Maximum Hardness gpg††	0
Minimum Ambient Temperature °F (°C)	40 (4.44)	Maximum pH (Continuous)	11
Maximum Feed Pressure psi (bar)	85 (5.86)	Minimum pH (Continuous)	5
Minimum Feed Pressure psi (bar)	45 (3.10)	Maximum pH (Cleaning 30 Min.)	12
Maximum Operating Pressure psi (bar)	150 (10.34)	Minimum pH (Cleaning 30 Min.)	2
Maximum SDI Rating SDI	<3		
Maximum Turbidity NTU	1		

Test Parameters: 550 TDS Filtered (5 Micron), De-Chlorinated, Municipal Feed Water, 65 psi (4.50 bar) Feed Pressure, 150 psi (10.34 bar) Operating Pressure, 77 Degrees F (25 Degrees C), Recovery as stated, 7.0 pH. Data taken after 60 minutes of operation.

† Low temperatures and high feed water TDS levels will significantly affect systems production capabilities. Computer projections should be run for individual applications which do not meet or exceed minimum and maximum operating limits.

†† Scale prevention measures must be taken to prolong membrane life.

