

Reverse Osmosis Systems

WGR Series Commercial Reverse Osmosis System

Canature WaterGroup™ has dedicated professional engineers with decades of commercial water treatment experience. Over the years, they have built a reputation for designing efficient, high quality water purification systems.

The WGR Series Commercial Reverse Osmosis Systems remove up to 99% of the total dissolved solids (TDS) in raw commercial feedwater, producing high quality process water for applications such as:

- ▶ **Boiler Feed**
- ▶ **Humidification Systems**
- ▶ **Drinking Water**
- ▶ **Industrial Processes**
- ▶ **Food and Beverage Processing**
- ▶ **Spot Free Rinse**



For Applications Such As:

Boiler Treatment ● Spot-free Rinse ● Ice Making ● Greenhouses
Research and Medical Labs ● Process Make-up Water ● Humidification
Ion exchange Pre-treatment ● Bottle Water ● Food and Beverage Processing

Reverse Osmosis Systems

Performance Specifications						
Item Number	2610	2611	2612	2613	2614	2615
Model	WGR-150	WGR-300	WGR-450	WGR-600	WGR-1200	WGR-1800
Capacity (GPD) ⁽¹⁾	150	300	450	600	1200	1800
Maximum Operating Pressure (psi)	190					
Typical TDS Rejection	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%
Recovery	up to 50%	up to 50%	up to 50%	up to 50%	up to 50%	up to 50%
Membranes	1	1	2	1	2	3
Dimensions, H x W x D (inches)	32 x 14 x 20			53 x 22 x 24		
Inlet Connection	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Motor (HP)	1/4	1/3	1/3	1/2"	3/4	3/4
Electrical (Standard)	115V/1Ph/60Hz					
Shipping Weight (lbs)	50	50	55	155	163	170

Feed Water Requirements			
Minimum Feed Pressure (psi)	30	Hydrogen Sulfide (H ₂ S)	0.00 mg/L
Maximum Feed Pressure (psi)	85	Organics Tolerance ⁽²⁾	0 mg/L
Temperature Range	40 - 100°F (4 - 37°C)	Oil (Hydrocarbons) Tolerance	0 mg/L
Total Dissolved Solids (TDS)	<2000 ppm	Turbidity ⁽²⁾	<1 NTU
Hardness	<10 Grains/USGal as CaCO ₃	SDI (Silt Density Index)	<5
Total Iron (Fe)	<0.1 mg/L	Chlorine Tolerance ⁽²⁾	0 mg/L
Manganese (Mn)	<0.05 mg/L	pH Range	2.0 - 11.0

⁽²⁾ Sediment and Carbon pre-filters, standard on the WGR Series must be replaced regularly to protect membranes. These feed requirements also include that the water be potable before treatment by a WGR Series RO system.

Model	Qty Membranes	Nominal Rating		Recovery %	Rejection	Operating Pressure	Motor HP	Voltage	Connections			Dimensions (in) HxWxD inches	Shipping Weight
		USGPD	USGPM						Inlet	Waste	Product		
WGR-150	1	150	0.1	Up to 50%	> 97%	190 psi	1/4 HP	120V	1/4"	3/8"	3/8"	32 x 14 x 20	50 lbs
WGR-300	1	300	0.21	Up to 50%	> 97%	190 psi	1/3 HP	120V	1/4"	3/8"	3/8"	32 x 14 x 20	50 lbs
WGR-450	2	450	0.31	Up to 50%	> 97%	190 psi	1/3 HP	120V	1/4"	3/8"	3/8"	32 x 14 x 20	55 lbs
WGR-600	1	600	0.42	Up to 50%	> 97%	190 psi	1/2 HP	120V	1/2"	3/8"	3/8"	53 x 22 x 24	155 lbs
WGR-1200	2	1200	0.83	Up to 50%	> 97%	190 psi	3/4 HP	120V	1/2"	3/8"	3/8"	53 x 22 x 24	163 lbs
WGR-1800	3	1800	1.25	Up to 50%	> 97%	190 psi	3/4 HP	120V	1/2"	3/8"	3/8"	53 x 22 x 24	170 lbs

1 The maximum permeate flow as defined by the membrane specifications and the feed water conditions of 2,000 ppm NaCl, 77 deg. F, 200 psi operating to atmosphere.

2 TDS rejection and water recovery are variable and can be affected by temperature and feed water conditions.

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