



V & Z Series

Reverse Osmosis System 2,000 to 14,000 GPD

The V and Z series provide efficient, economical reverse osmosis water purification for 2,000 - 14,000 gpd applications. The V and Z series RO is registered with the FDA as a Class II Medical Device and is designed and tested to meet AAMI RD62 requirements for RO equipment and product water.

Standard Features

- Advanced performance monitoring includes percent rejection & a digital display of product water total dissolved solids as mg/l.
- Quiet submersible stainless steel pump
- Full-fit thin film RO membranes
- Semi-automatic sanitizing system
- Waste recirculation valve and flow meter
- Panel mounted flow meters and liquid filled gauges
- System protected with low feed pressure shut-off, time delayed pump start-up, and motor thermal over-load
- Direct or indirect feed design
- Auto flush control
- Feed water over-temperature alarm
- Product water divert to drain
- Chemically compatible with 1% Minncare[®] Cold Sterilant disinfectant solution

Optional Features

- Remote monitor displays RO performance readings at a chosen area (e.g., Nurses' station)
 - Disinfect alert monitor will indicate locally and remotely that the RO is in disinfect/cleaning mode and water is not suitable for use with patients.
 - Chemical feed systems for liquid anti-scalant addition or pH control and monitoring.
 - Product water pressure relief system
 - Complete line of RO pre-treatment and post-treatment equipment available
 - Electrical certifications available
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V & Z Series System Specifications

50% RECOVERY RATE												
Production based upon pre-treated feed, 225 PSI applied pressure, 77°F (25°C), 1,000 PPM NaCl 10% recovery and 1 PSI product pressure.												
Model	V-2000	V-2400	V-4000	V-4800	V-6000	V-7200	Z-8000	Z-9600	Z-10000	Z-12000	Z-12000	Z-14000
Type of Feed	Direct	Indirect	Direct	Indirect	Direct	Indirect	Direct	Indirect	Direct	Indirect	Direct	Indirect
Production Rate ^{1,2}												
GPD	2,000	2,400	4,000	4,800	6,000	7,200	8,000	9,600	10,000	12,000	12,000	14,000
GPM	1.3	1.7	2.8	3.3	4.2	5.0	5.6	6.7	6.8	8.3	8.3	10.0
LPM	5.3	6.3	10.5	12.6	15.8	18.9	21.0	25.2	26.3	31.5	31.5	37.9
Recovery Rate	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Power Required	208/230/460 Volt, 3 Phase, 60 Hertz 220 Volt, 1 Phase, 60 Hertz only available on 3 & 5 horsepower units											
Dimensions: Height	68 inches						72 inches					
Width	24 inches						30 inches					
Depth	24 inches						30.5 inches					
1. Water production decreases approximately 1.5% per 1°F (3% per 1°C) incoming water temperature drop. 2. Membrane production rate may vary +/- 15% depending on feed water quality.												

75% RECOVERY RATE				
Production based upon pre-treated feed, 225 PSI applied pressure, 77°F (25°C), 1,000 PPM NaCl 10% recovery and 1 PSI product pressure.				
Model	Z-4800	Z-7200	Z-9600	Z-12000
Type of Feed	Indirect	Indirect	Indirect	Indirect
Production Rate ^{1,2}				
GPD	4,800	7,200	9,600	12,000
GPM	3.3	5.0	6.7	8.3
LPM	12.6	18.9	25.2	31.5
Recovery Rate	75%	75%	75%	75%
Power Required	208/230/460 Volt, 3 Phase, 60 Hertz 220 Volt, 1 Phase, 60 Hertz only available on 3 & 5 horsepower units			
Dimensions: Height	68 inches		72 inches	
Width	24 inches		30 inches	
Depth	24 inches		30.5 inches	
1. Water production decreases approximately 1.5% per 1°F (3% per 1°C) incoming water temperature drop. 2. Membrane production rate may vary +/- 15% depending on feed water quality.				

Feed Water Requirements

If any of the feed water requirements are not within the limits given below contact us for assistance.

- Feed Water Source: Potable Tap
- Maximum Silt Density Index: < 3
- Maximum Free Chlorine: < 0.1 ppm
- Operating Temperature Range: 2 - 35°C (35 - 95°F)
- Operating pH Range: 2 - 11
- Total Dissolved Solids: < 1,000 ppm
- Softened or Langelier Index: < 0.5
- Iron / Manganese: < 0.1 ppm

Installation Considerations

- For proper serviceability, there should be 48" of end clearance and 18" for the front and back.
- The system should be installed on a firm, level surface and have a drain with suitable capability to handle concentrate.
- Minimum dynamic operating pressure of 30 PSI is required for proper system operation. The max pressure is 90 PSI.

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