

Industrial & Commercial Reverse Osmosis Systems



VALUE SERIES

Reverse Osmosis Systems
2,400 to 12,000 gallons per day



Providing quality, demineralized water at a fraction of the operating costs of deionizers. ROs reduce dissolved solids, bacteria, pyrogens, and organics. All systems are heavy-duty, preassembled, and factory tested before delivery.

Reverse Osmosis systems are designed and manufactured for dependable service. All pumps are stainless steel for durability and have a diffuser-type design for a smooth pulse free and quiet operation. The electronic control panel is protected by a NEMA 4 enclosure and operates on 120 vac. Many standard features are included to provide the greatest efficiency from a Dayton Water Systems RO unit.

Operating Requirements:

Pressure: 20 psi – 80 psi
Temperature: 35°F - 85°F
Electrical: 120/60, 5 amps
 3 phase, 208-230/460 vac
Free Chlorine: <.1 ppm
pH: 5.8 – 10
Turbidity: 1 NTU (max)
Silt Density Index: 5 (max)

Materials of Construction:

Frame: Powder Coated Carbon Steel
Membrane Elements: Thin Film Composite, 4”
Housings: Stainless

Pump and Motor:

Pump: SS Multistage Centrifugal
Motor: 3 phase, 208-230/460 volt
 (1 phase optional)

Standard Features:

5 Micron Prefilter
 Pressure Pump Start Delay (adjustable)
 Conductivity Controller
 PT interlock

Recycle
 Adjustable Pump PSI
 Flush on Idle

Low Feed Pressure Shut Down / Alarm
 Liquid-Filled pressure Gauges:
 Pre-Filter Inlet / Outlet
 Membrane Feed / Concentrate

Optional Features:

Permeate Divert
 CIP (clean in place)
 Recycle Flowmeter

Auto Flush
 Recycle Adjustable

LOW ENERGY PUMP & MEMBRANE AVAILABLE

Model Number	R024	R048	R072	R096	R012K
Product Capacity (gals/day)*	2,400	4,800	7,200	9,600	12,000

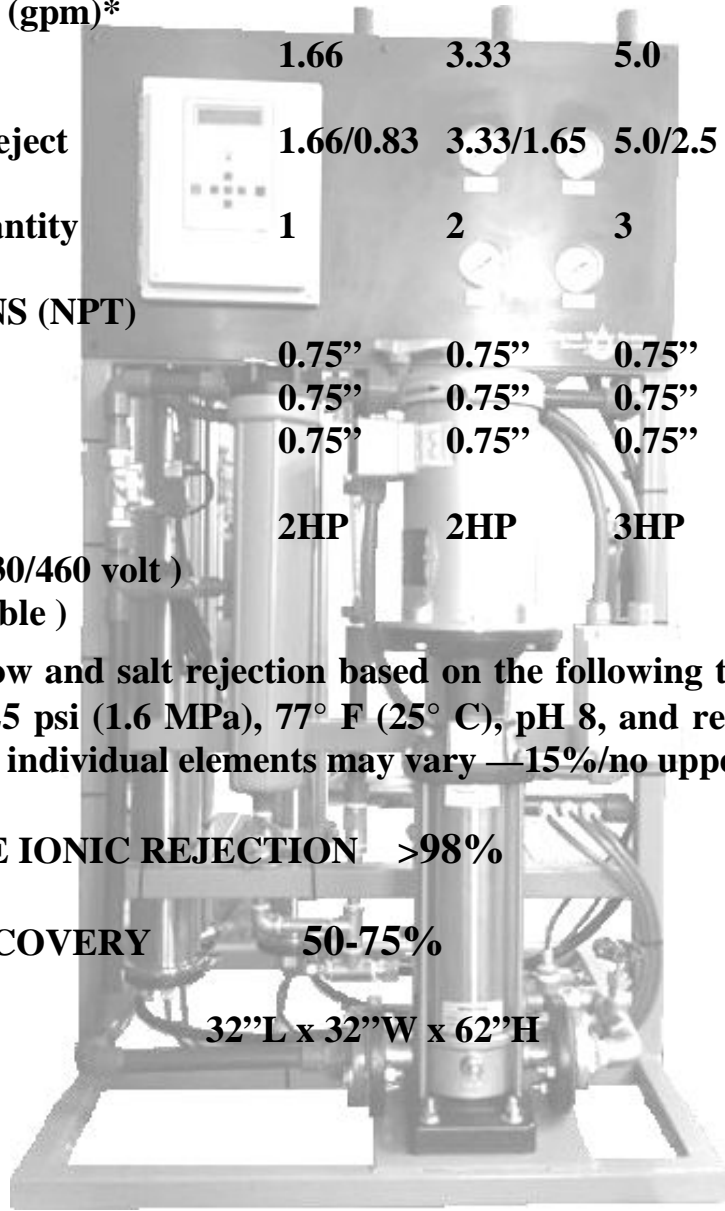
FLOW RATES (gpm)*					
Permeate	1.66	3.33	5.0	6.67	8.33
Concentrate/Reject	1.66/0.83	3.33/1.65	5.0/2.5	6.67/3.33	8.33/4.16
Membrane Quantity	1	2	3	4	5
CONNECTIONS (NPT)					
Inlet	0.75"	0.75"	0.75"	0.75"	0.75"
Concentrate	0.75"	0.75"	0.75"	0.75"	0.75"
Permeate	0.75"	0.75"	0.75"	0.75"	0.75"
PUMP	2HP	2HP	3HP	3HP	5HP
(3 phase,208-230/460 volt)					
(1 Phase available)					

*Permeate flow and salt rejection based on the following test conditions: 2000 ppm NaCl, 225 psi (1.6 MPa), 77° F (25° C), pH 8, and recovery as indicated. Flow rates for individual elements may vary —15%/no upper limit.

PERCENTAGE IONIC REJECTION >98%

PERCENT RECOVERY 50-75%

DIMENSIONS 32"L x 32"W x 62"H



NOTES: Water should be free of suspended solids, iron, sulfur dioxide, oils and relatively free of turbidity.

ADVANCED WATER SOLUTIONS SINCE 1939



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