

# Industrial & Commercial Reverse Osmosis Systems

## COMPACT SERIES

### Reverse Osmosis Systems

325 to 2,400 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 tested before delivery. Reverse Osmosis systems are designed and manufactured for dependable service. Many standard features are included to provide the most efficient and reliable design from a Dayton Water Systems RO unit.



#### Operating Requirements:

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



#### Materials of Construction:

<b>Frame:</b>	Powder Coated Carbon Steel
<b>Membrane Elements:</b>	Thin Film Composite
<b>Housing:</b>	Stainless



#### Pump and Motor:

<b>Pump:</b>	Bronze Rotary Vane
<b>Motor:</b>	1 phase 120/240 volt



#### Standard Features:

5 Micron Prefilter  
 Adjustable pump psi  
 Concentrate flowmeter  
 Permeate flowmeter

Recycle adjustable  
 Liquid-Filled pressure Gauge :  
 Membrane Feed  
 PT Interlock

Low Feed Pressure Shut Down  
 Permeate flowmeter  
 Conductivity Controller



#### Optional Features:

Stainless Steel Pump

Carbon Prefilter Cartridge

**LOW ENERGY PUMP & MEMBRANE AVAILABLE**

<b>Model Number</b>	<b>RO C3</b>	<b>RO C9</b>	<b>RO C24</b>
<b>Product Capacity (gals/day)*</b>	<b>325</b>	<b>900</b>	<b>2400</b>

**FLOW RATES (gpm)\*:**

<b>Permeate</b>	<b>0.22</b>	<b>0.625</b>	<b>1.66</b>
<b>Concentrate/Reject</b>	<b>0.25/0.22</b>	<b>0.72/0.625</b>	<b>1.9/1.66</b>

<b>Membrane Quantity</b>	<b>1</b>	<b>1</b>	<b>1</b>
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**CONNECTIONS (NPT)**

<b>Inlet</b>	<b>0.5"</b>	<b>0.5"</b>	<b>0.5"</b>
<b>Concentrate</b>	<b>0.5"</b>	<b>0.5"</b>	<b>0.5"</b>
<b>Permeate</b>	<b>0.5"</b>	<b>0.5"</b>	<b>0.5"</b>

<b>Pump Motor ( Single Phase)</b>	<b>1/2HP</b>	<b>1/2HP</b>	<b>3/4HP</b>
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**\*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 33-50%**

**DIMENSIONS**  
**15" x 18" x 30" (C3- C9)**  
**15" x 18" x 50" (C24)**



**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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