

# Industrial & Commercial Reverse Osmosis Systems



## V8 SERIES

Reverse Osmosis Systems  
11,000 to 66,000 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, 8”  
**Housings:** FRP

### 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

Adjustable 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)

Auto Flush

**LOW ENERGY PUMP & MEMBRANE AVAILABLE**

Model Number	<b>ROV811</b>	<b>ROV822</b>	<b>ROV833</b>	<b>ROV844</b>
Product Capacity (gals/day)*	11,000	22,000	33,000	44,000

**FLOW RATES (gpm)\***

Permeate	7.63	15.27	22.9	30.5
Concentrate/Reject	7.63/3.81	15.27/7.63	22.9/11.45	30.5/15.25

**Membrane Quantity**

1	2	3	4
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**CONNECTIONS (NPT)**

Inlet	1.5"	1.5"	1.5"	1.5"
Concentrate	1.0"	1.0"	1.0"	1.0"
Permeate	1.0"	1.0"	1.0"	1.0"

**PUMP**

3HP	5HP	7.5HP	10HP
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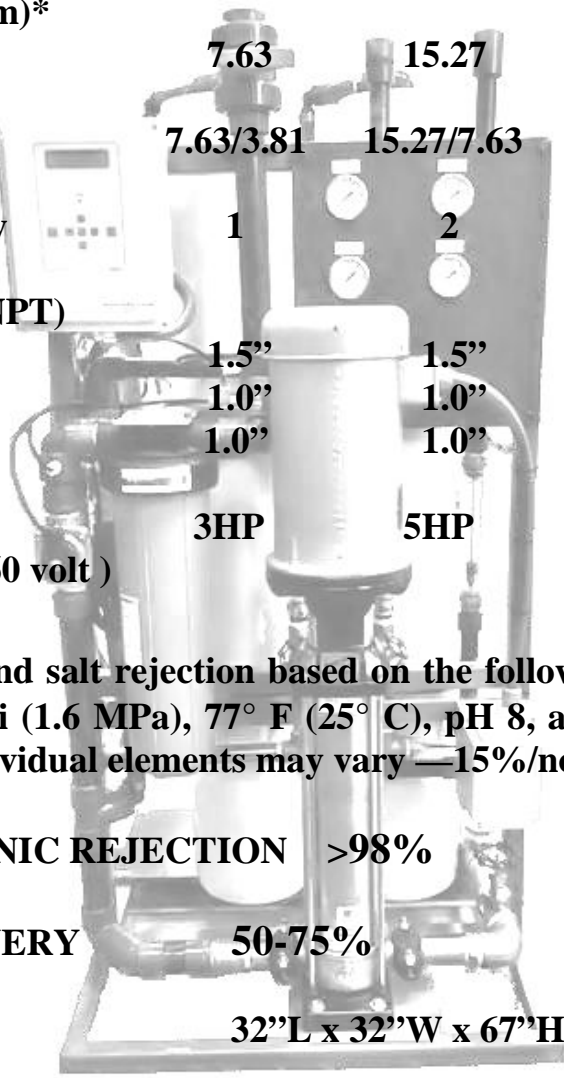
( 3 phase,208-230/460 volt )  
( 1 Phase available )

\*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 67"H**



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

**ADVANCED WATER SOLUTIONS SINCE 1939**



765 Liberty Ln, West Carrollton  
Ohio 45404  
800-424-9250 • fax 937-461-0308  
www.DaytonWaterSystems.com

## LOW ENERGY PUMP & MEMBRANE AVAILABLE

<b>Model Number</b>	<b>ROV855</b>	<b>ROV866</b>
<b>Product Capacity (gals/day)*</b>	<b>55,000</b>	<b>66,000</b>

### FLOW RATES (gpm)\*

<b>Permeate</b>	<b>38.9</b>	<b>45.8</b>
<b>Concentrate/Reject</b>	<b>38.9/19.4</b>	<b>45.8/22.9</b>

<b>Membrane Quantity</b>	<b>5</b>	<b>6</b>
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### CONNECTIONS (NPT)

<b>Inlet</b>	<b>1.5"</b>	<b>1.5"</b>
<b>Concentrate</b>	<b>1.0"</b>	<b>1.0"</b>
<b>Permeate</b>	<b>1.0"</b>	<b>1.5"</b>

<b>PUMP</b>	<b>10HP</b>	<b>15HP</b>
<b>( 3 phase,208-230/460 volt )</b>		
<b>( 1 Phase available )</b>		

**\*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.**

<b>PERCENTAGE IONIC REJECTION</b>	<b>&gt;98%</b>
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<b>PERCENT RECOVERY</b>	<b>50-75%</b>
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<b>DIMENSIONS</b>	<b>42"L x 32"W x 67"H</b>
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**NOTES:** Water should be free of suspended solids, iron, sulfur dioxide, oils and relatively free of turbidity.

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