Containerized Reverse Osmosis Systems

10 ft, 20 ft and 40ft containers

Pure Aqua containerized reverse osmosis systems are self contained, turnkey units that can function on-the-go or as a permanent water treatment plant, able to start producing high-quality water in less than a day after arrival on-site. Pure Aqua containerized reverse osmosis systems are made to order, meaning that your containerized system will be specifically engineered to meet your water treatment requirements. Each containerized reverse osmosis system is engineered with high-quality components to handle all types of harsh conditions.

Pure Aqua supplies a full line of standard and fully customizable water treatment systems, all of which are engineered using advanced 3D computer modeling and process design software.

Standard Features

- 20 and 40ft standard shipping container
- Centralized external connections
- Interconnecting piping and wiring
- Overhead lighting
- 110V/460V/3Ph/60Hz power supply
- Pretreatment mounting and plumbing
- Centralized control panels
- Operations and maintenance manuals
- Full 3D/2D CAD drawings

Available Options

- 10ft non seaworthy container for small systems
- Air conditioning/heater unit
- Membrane clean-in-place skid (CIP)
- 380-415V/3Ph/50Hz or 220V/60Hz power supply
- Chemical dosing systems
- Media and Iron prefiltration systems
- Ozonation and UV sterilization systems
- Diamond plate flooring
- Insulation for temperature control

Pre-filtration with interconnecting piping, wiring and backwash pump
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Membrane Schematic Diagram
The spiral membrane is constructed from one or more membrane envelopes wound around a perforated central tube. The permeate passes through the membrane into the envelope and spirals inward to the central tube for collection. The layers of the membrane envelope are detailed in the diagram to the right.

Operation Specifications
- Max. feed water temperature: 42°C
- Feed water pressure: 20 to 60 psi
- Operating pressure: 150 to 1,000 psi
- Hydrogen Sulfide must be removed
- Feed water TDS: up to 45,000 ppm
- Turbidity must be removed
- Hardness over 1 GPG requires antiscalant dosing
- pH tolerance range: 3-11

Weights and Dimensions

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Non Insulated Container</th>
<th>Insulated Container</th>
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<tbody>
<tr>
<td></td>
<td>10 ft</td>
<td>20 ft</td>
</tr>
<tr>
<td>External length (in.)</td>
<td>114</td>
<td>236</td>
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<tr>
<td>External width (in.)</td>
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<td>Internal width (in.)</td>
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<tr>
<td>Internal height (in.)</td>
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<tr>
<td>Tare weight (lbs.)</td>
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<tr>
<td>Max gross weight tons</td>
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<td>24</td>
</tr>
<tr>
<td>Access</td>
<td>1 double-door</td>
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