

Containerized Reverse Osmosis Systems

10ft, 20ft and 40ft Containers

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Pure Aqua's 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's 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.



173,000 GPD brackish water
containerized reverse osmosis system

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

- 20ft or 40ft standard shipping container
- Centralized external connections
- Interconnecting piping and wiring
- Overhead lighting
- 110V/1ph and 460V/3ph/60Hz power
- Pretreatment mounting and plumbing
- Centralized control panels
- Operation and maintenance manual
- Full 3D/2D CAD drawings

*For more information, please
refer to our RO data sheets*



Brackish water reverse osmosis system



Integrated clean-in-place skid (CIP)

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
- UV sterilization systems
- Diamond plate flooring
- Insulation for temperature control
- Personnel man door



RO system with pre treatment

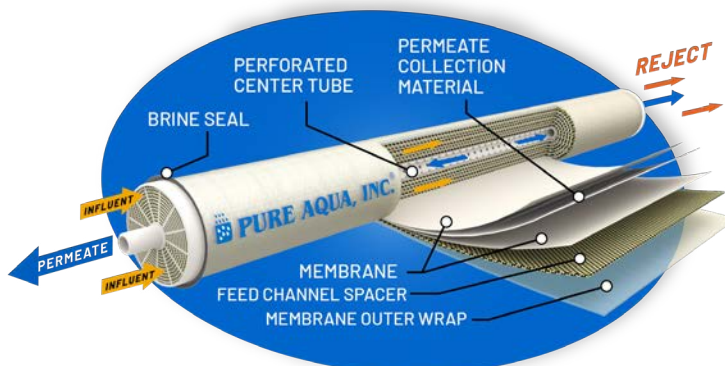
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Membrane Schematic Diagram

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.



Brackish reverse osmosis containerized system

Operation Specifications

- Max. feed water temperature: 42°C
- Feed water pressure: 20 to 60 psi
- Operating pressure: 150 to 1,000 psi
- H₂S 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

Container Specification	Non Insulated Container			Insulated Container	
	10ft	20ft	40ft	20ft	40ft
External length (in)	120	240	480	240	480
External width (in)	96	96	96	96	96
External height (in)	102	102	114	102	114
Internal length (in)	111	233	474	229	470
Internal width (in)	92	92	92	88	88
Internal height (in)	93	95	104	91	100
Tare weight (lbs)	3,200	4,800	7,300	6,500	9,400
Max shipping weight (lbs)	22,400	40,000	45,000	40,000	45,000
Access	1 double-door				

Pure Aqua also supplies: Custom Engineered Solutions, Multimedia Pretreatment, Activated Carbon Pretreatment, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

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