Commercial Brackish RO Systems
Capacity: 600 to 15,000 GPD

RO-200 SERIES

Pure Aqua's reverse osmosis systems are capable of removing salts and other impurities such as bacteria, sugars, proteins, dyes and constituents with a molecular weight greater than 150-250 Dalton.

TW-1.8K-325   TW-4.5K-340   TW-9.0K-640   TW-15K-1040

Pure Aqua supplies a full line of standard and fully customizable reverse osmosis systems, all of which are engineered using advanced 3D computer modeling and process design software for accurate and customized solutions.

Standard Features

- Powder coated carbon steel frame
- 2.5"/4" TFC spiral wound membranes
- Heavy duty 5 micron sediment prefilter
- Corrosion resistant high pressure pump
- 220V/1Ph/60Hz power requirement
- Pre/post filter and pump pressure gauges
- FRP pressure vessels
- Tagging and identification of instrumentation
- Heavy duty high pressure tubing
- Corrosion resistant high pressure throttling valve
- Pretreatment lockout
- TDS meter
- Low pressure switch
- Product and reject flow meters
- Electric inlet solenoid valve
- Recycle valve (standard up to 4.5K GPD)
- Factory tested

Available Options

- SS pressure vessels
- High pressure switch
- pH or ORP meter
- Recycle flow meter
- Product tank float switch
- 220V or 460V 3Ph/60Hz power
- 220-240V/1Ph/50Hz power
- 380-415V/3Ph/50Hz power
- Automatic flush
- Export wood crating
- Media filters
- Ozonation system/UV sterilizers
- Water softeners
- Post DI polishers
- Blending: feed/product
- Skid mounted with pre and post treatment
- Solar powered systems

SS Inlet Solenoid Valve   5 Micron Pre-Filter   Low Pressure Switch   FRP Pressure Vessel   SS Pressure Gauge   SS Needle Valve   Microprocessor Control Panel

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Operation Specifications

- Max. feed water temperature: 42°C
- Feed water pressure: 20 to 80 psi
- Operating pressure: 150 to 250 psi
- Hydrogen Sulfide must be removed
- Turbidity should be removed
- Max. Iron content: 0.05 ppm

- Feed water TDS: 0-2,000 ppm
- Equipment upgrade for TDS up to 5,000 ppm
- Hardness over 1 GPG requires water softener
- pH tolerance range: 3-11
- Max. Silica tolerance: 25 ppm @ 60% recovery
- Operate at higher TDS by lowering recovery

Model #	Permeate Flow Rate		Membranes		Motor HP at 1,000 ppm		Approx. Weight (lbs)	Dimensions L"xW"xH"
	GPD	M³/D	Size	Qty.	60 Hz	50 Hz		
TW-0.6K-125	600	2	2.5"x40"	1	1/2	1/2	100	21x24x55
TW-1.2K-225	1,200	5	2.5"x40"	2	1/2	1/2	110	21x24x55
TW-1.8K-325	1,800	7	2.5"x40"	3	3/4	3/4	125	21x24x55
TW-1.5K-140	1,500	6	4"x40"	1	1	1	125	21x25x55
TW-3.0K-240	3,000	11	4"x40"	2	1	1	160	21x25x55
TW-4.5K-340	4,500	17	4"x40"	3	1.5	1.5	190	21x25x55
TW-6.0K-440	6,000	23	4"x40"	4	1.5	1.5	220	21x30x55
TW-7.5K-540	7,500	28	4"x40"	5	2	2	250	21x30x55
TW-9.0K-640	9,000	34	4"x40"	6	2	2	280	21x30x55
TW-12.0K-840	12,000	45	4"x40"	8	3	3	380	27x34x56
TW-15.0K-1040	15,000	57	4"x40"	10	3	3	450	27x34x56

Note: If the feed water TDS exceeds 2,000 ppm, the system model number changes to BW-XXXK-XXXX, and a suffix is added to the end of the model number: "-5" is added if the TDS is 5,000 ppm or less. Example: Required system to produce 9,000 GPD with a feed water TDS of 5,000 ppm, the corresponding model number is: "BW-9.0K-640-5".

Available Skid Mounted Systems

Pure Aqua manufactures skid mounted commercial reverse osmosis as a turnkey system individually designed to meet your specifications and pre-tested to ensure accurate connections. Depending on the applications, the skid mounted system might include all pre and post treatment components, including feed pump, chemical dosing, media filter, carbon filter, water softener, RO, TDS blending mechanism, pH correction, post UV disinfection, ozonation, storage tank and other optional components. The skid mounted system comes completely pre-assembled, piped, wired and ready to operate.

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

TW-7.5K-540
w/ skid mounting option

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