Commercial Brackish RO Systems

Capacity: 600 to 18,000 GPD

RO-200 SERIES

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

TW-0.6K-125 | TW-3.0K-240 | TW-6.0K-440 | 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
- Microprocessor based control panel
- 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

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

SS Inlet Solenoid Valve

Low Pressure Switch

5 Micron Pre-Filter

SS Pressure Gauges

SS Needle Valve

FRP Pressure Vessel

Microprocessor

PURE AQUA, INC.®

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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
- H_2S must be removed
- Turbidity must be removed
- Max. iron content: 0.05 ppm
- Feed water TDS: 0 to 5,000 ppm
- Equipment upgrade for TDS over 5,000 ppm
- Hardness over 1 GPG requires water softener or antiscalant
- pH tolerance range: 3-11
- Max. Silica tolerance: 60 ppm @ 50% 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	m^3/d	Size	Qty	60Hz	50Hz		
TW-0.6K-125	600	2	2.5"x40"	1	1/2	3/4	150	22x26x55
TW-1.2K-225	1,200	5	2.5"x40"	2	1/2	1	150	22x26x55
TW-1.8K-325	1,800	7	2.5"x40"	3	3/4	1	150	22x26x55
TW-1.5K-140	1,500	6	4"x40"	1	3/4	1	150	22x26x55
TW-3.0K-240	3,000	11	4"x40"	2	3/4	1	200	22x26x55
TW-4.5K-340	4,500	17	4"x40"	3	3/4	1	220	22x26x55
TW-6.0K-440	6,000	23	4"x40"	4	1	1	240	22x31x55
TW-7.5K-540	7,500	28	4"x40"	5	1	1 1/2	260	22x31x55
TW-9.0K-640	9,000	34	4"x40"	6	1 1/2	1 1/2	280	22x31x55
TW-12.0K-840	12,000	45	4"x40"	8	1 1/2	2	380	34x37x60
TW-15.0K-1040	15,000	57	4"x40"	10	2	3	450	34x37x60
TW-18.0K-1240	18,000	68	4"x40"	12	2	3	600	40x40x60

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 systems individually designed to meet your specifications and pre-tested to ensure accurate connections.

Depending on the applications, the skid mounted system may 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, storage tank and other optional components.

Skid mounted systems come completely pre-assembled, piped, wired and ready to operate.

TW-7.5K-540 w/ skid mounting option

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