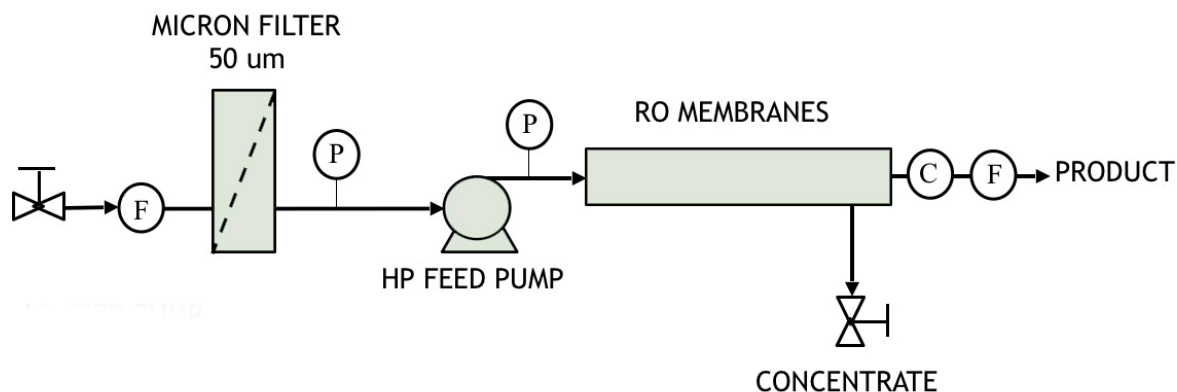




# 100,000, 200,000, 300,000, 400,000 AND 500,000 GPD BRACKISH WATER Reverse Osmosis Desalination Systems

Suitable for hotels, resorts and industrial customers, these brackish water desalination systems operate automatically and include an efficient high pressure pump. With a simple hookup to power and piping, the system is ready to go. Treated water is suitable for drinking.



## SYSTEM FEATURES

- Quick Setup
- Easy Start and Stop Functionality
- Safety Low Pressure and High Pressure Alarms
- Includes All Equipment and Instrumentation Necessary for Normal Operation
- Central Gauge Panel with Operating Information
- Remote Start and Stop
- Antiscalant Dosing
- VFD Control
- Corrosion Resistant Materials
- 316 SS Hardware and Piping
- Micron Filter Housing Standard
- Process and Sample Valves
- Epoxy-Coated Steel Frame
- Totally Enclosed Motors
- Unmanned Operation
- Efficient High Pressure Pump
- Standard Permeate Tank Control Inputs

## Specifications

- Standard Electrical Supply 230/460 Three phase power, 60hz (Other voltages available)
- Instruments
  - Feed Flowmeter
  - Product Flowmeter
  - Low Pressure Sensor and Transmitter
  - Membrane Pressure Sensor and Transmitter
  - Product Conductivity Meter
- NEMA 4 Control Enclosure
- Brackish Membranes
- Designed and Assembled in the USA
- 1 Year Limited Warranty

## PROCESS PARAMETERS

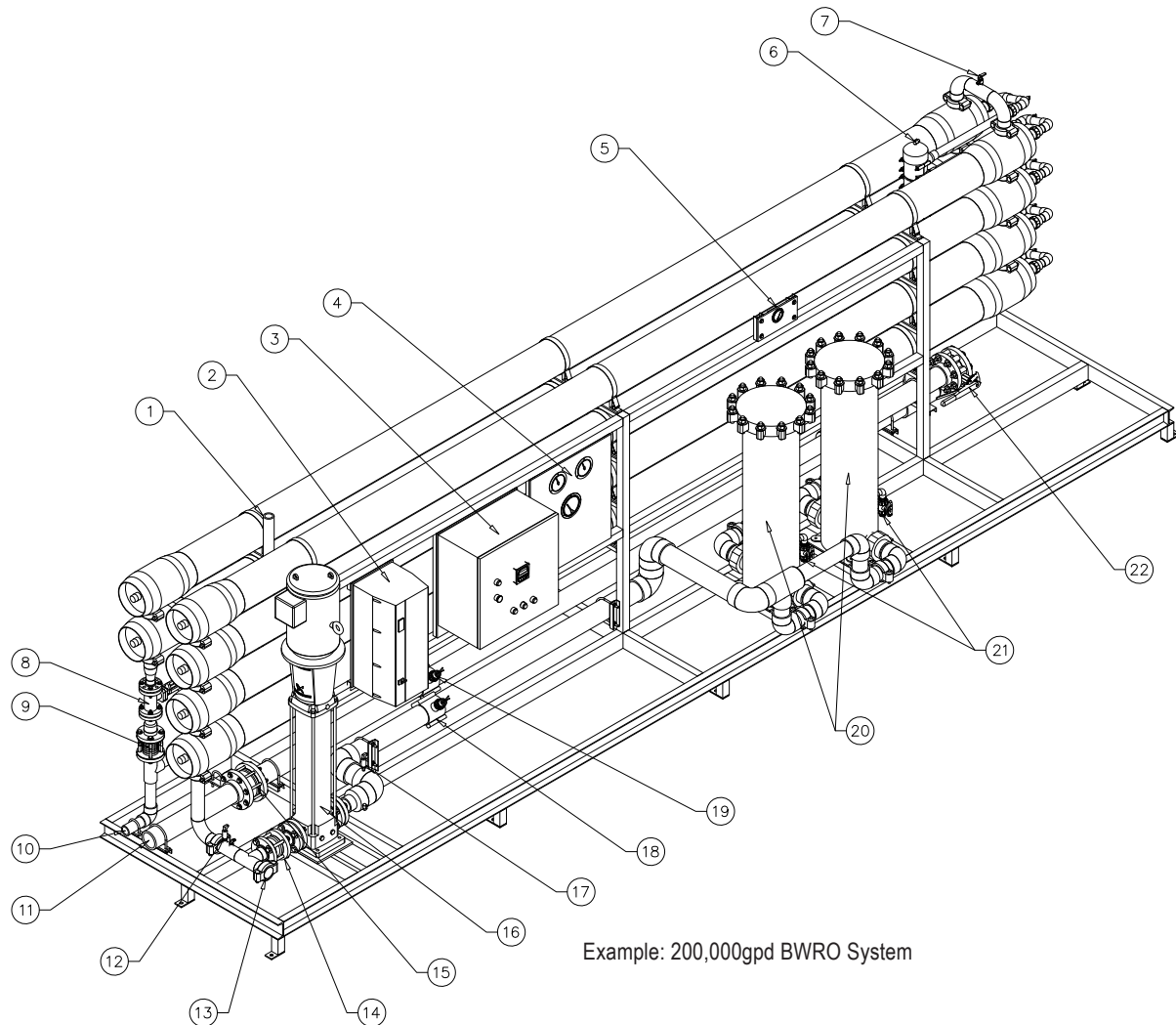
DESCRIPTION	UNIT	CAPACITY				
		100,000	200,000	300,000	400,000	500,000
Production Rate @ 60Hz*	USgpd	378.5	757.1	1135.6	1514.2	1892.7
Production Rate	m3/day	2:1 (8")	4:2 (8")	6:3 (8")	8:4 (8")	10:5 (8")
Vessel Array, (Size)	qty	92.6	185.2	277.8	370.4	463
Feed Flow	gpm	23.2	46.3	69.5	92.6	115.8
Brine Flow	gpm	69.4	138.9	208.3	277.8	347.2
Product Flow	gpm	161.3				
Feed Pressure at 2k TDS	psi	<100				
Product Quality	TDS	288" L x 84" W x 90" H				
Skid Outside Dimensions	in.	3,596	5,414	7,245	8,856	11,722
Skid Dry Weight	lbs	7.1	14.1	21.8	27.8	34.6
Power	kW	1.7				
Specific Power*	kWh/Kgal					

## Options

- Multimedia Pre-Filter – Recommended When Input Water Quality Is Poor
- Bag Filter– Recommended When Input Water Quality Is Poor
- Antiscalant Chemical Dosing
- UV and Chlorination of Treated Product Water
- Product Storage Tank
- Feed Water Storage Tank
- Customization
- Spare Parts
- Consumables
- CIP System
- Pre and Post-treatment Chemical Dosing

\* 2000 mg/l TDS @ 25C

# 100,000, 200,000, 300,000, 400,000 AND 500,000 GPD UNITS



## TAG DESCRIPTION

1	Brine Standpipe	12	Membrane Pressure Transmitter
2	High Pressure Pump VFD	13	CIP Connection Point
3	Control Cabinet	14	High Pressure Pump Discharge Check Valve
4	Gauge Panel	15	Product Discharge Check Valve
5	Micron Filter Differential Pressure Indicator	16	High Pressure Pump
6	Product Header Air Bleed	17	High Pressure Pump Suction Pressure Transmitter
7	High Pressure System Air Bleed	18	High Pressure Pump Suction Flowmeter
8	Brine Control Valve	19	Product Flowmeter
9	Brine Orifice	20	Micron Filters
10	Train Brine Outlet Terminal Point	21	Micron Filter Drain Valves
11	Train Product Outlet Terminal Point	22	Feed Inlet Valve Terminal Point