

## Bottled Water Stores



### Optional Features

- Metered Control Valves on Pre-Treatment Filters
- Stainless Cartridge Filter Housings
- Stainless Steel High-pressure R.O. piping
- 50Hz/220V/1-phase or 50Hz/60Hz 3-phase motor
- Stainless Steel Control Valves
- Fiberglass Pressure Vessels
- Additional Instrumentation (Turbidity, Temperature)
- 316SS High-Pressure R.O. Pump
- Permeate Storage Tanks

**Design Assumptions:** Feed water of 500 mg/l TDS at 25c. SDI < 3, Turbidity < 1 Flux, Brine Flow, and Recovery in accordance with membrane manufacturers recommendation

### System Specifications

#### TOTAL SYSTEM

- Skid:** Single skid-mounted system, two-coat acrylic paint, with leveling legs, panel-mounted gauges, meters, control valves, and sample valves
- Control Panel:** Single Control Panel for total system with automatic on/off operation and alarms, panel-mounted instruments
- Interconnecting Piping:** Schedule 80 PVC with By-pass Valves, Drains, Sample Valves, and Inlet / Outlet Pressure Gauges

#### PRE-TREATMENT

- Multi-Media Filter:** Includes Media, Control Valve with Lockout Switch, Composite Media Tank, and Tank Jacket
- Water Softener:** Twin Alternating System with Resin, Control Valve, Composite Resin Tanks, Brine Tank, Tank Jackets
- Activated Carbon Filter:** Includes Media, Control Valve with Lockout Switch, Composite Media Tank, and Tank Jacket

#### PURIFICATION SYSTEM

- Reverse Osmosis:** TFC R.O. Membranes in Stainless Steel Pressure Vessels, Centrifugal High Pressure Pump, 5-micron Sediment Prefilter, Automatic Inlet Shut-off Valve, Automatic Feed Water Flush, Low-pressure alarm, Flowmeters, Concentrate Recycle, Prefilter Inlet / Outlet Pressure Gauges, and TDS Meter
- Ozone Disinfection:** Ozone Generator, Power-Prep Unit, Air Flow Meter and Regulating Valve, and Recirculation Pump

#### STORAGE AND REPRESSURIZATION (when sized for 25 GPM dispensing)

- Storage Tanks (optional):** 300 gallon FDA-approved Polyethylene with level controls, bulkhead fittings, flange connections, drain valve, lid and vent
- Repressurization System:** Repressurization Pump with pressure tank, pressure switch, interconnecting piping and pressure gauge

#### POST-TREATMENT SYSTEM (when sized for 25 GPM dispensing)

- Carbon Block Post-Filter:** Dual "Big-Blue" housings with carbon block cartridges, Inlet / Outlet Pressure Gauges
- Ultraviolet Sterilizer:** Dual Corrosion-resistant UV Sterilizers, with interconnecting piping and sample valves

#### SYSTEM CONFIGURATION

MODEL	PRODUCTION		RECOVERY (%)	NUMBER AND SIZE ELEMENTS	MOTOR		APPROXIMATE SHIPPING DIMENSIONS			APPROXIMATE SKID DIMENSIONS		
	GPD	m <sup>3</sup> /D			80Hz (HP)	60Hz (KW)	(L x W x H) (inches)	(L x W x H) (cm)	WEIGHT (lbs/Kg)	(L x W x H) (inches)	(L x W x H) (cm)	WEIGHT (lbs/Kg)
QUALIPURE-WS-1600	1,600	6	18	1 (4")	1	1	108 x 72 x 72	274 x 183 x 183	1800/818	96 x 60 x 60	244 x 152 x 152	1400/636
QUALIPURE-WS-3200	3,200	12	31	2 (4")	1	1	108 x 72 x 72	274 x 183 x 183	1850/840	96 x 60 x 60	244 x 152 x 152	1450/659
QUALIPURE-WS-4800	4,800	18	41	3 (4")	1.5	3	108 x 72 x 72	274 x 183 x 183	1900/863	96 x 60 x 60	244 x 152 x 152	1500/682
QUALIPURE-WS-6400	6,400	24	48	4 (4")	1.5	3	108 x 72 x 72	274 x 183 x 183	1950/885	96 x 60 x 60	244 x 152 x 152	1550/705
QUALIPURE-WS-8000	8,000	30	54	5 (4")	3	3	108 x 72 x 72	274 x 183 x 183	2000/909	96 x 60 x 60	244 x 152 x 152	1600/727
QUALIPURE-WS-9600	9,600	36	55	6 (4")	3	3	108 x 72 x 72	274 x 183 x 183	2050/932	96 x 60 x 60	244 x 152 x 152	1650/750

### Total Water Purification Process for Water Bottling

from Raw Water to Purified Water ready for bottling.