



The RODI Systems PureBox™ ROWPU-FX systems incorporate a number of specifications which make them a high quality choice for your water purification application.

**Container** — The system is totally self-contained inside a heavy-duty steel frame or seaworthy intermodal shipping container. Installation is easy and consists of unloading the container and making the necessary piping and electrical connections.

**Construction** — The PureBox™ ROWPUs are constructed of new, industrial quality materials. Piping, vessels, and other system components are supported inside the container with fiberglass structural members.

**Piping** — All low pressure piping is Schedule 80 PVC or other non-metallic materials. High pressure piping utilizes 316 stainless steel. Welded joints are used wherever possible and threaded joints are avoided as much as possible to prevent leaks. All valves and fittings are of industrial quality.

**Pressure Vessels** — Membrane pressure vessels are filament wound using fiberglass roving and sealed with an epoxy resin. This results in a corrosion-proof vessel that will last for years with little or no maintenance.



**Membrane Technology** — The PureBox™ ROWPU-FX utilizes ceramic membrane microfiltration followed by spiral wound, thin film composite RO membrane. This allows the ROWPU-FX to operate from virtually any natural surface water source including highly turbid sources that would quickly overwhelm conventional systems. The integrated membrane system results in high quality permeate with only a single pass, low operating pressures, and a long service life with minimal RO membrane fouling.

**High Pressure Pump** — The PureBox™ ROWPU utilizes Wanner Hydra-Cell pumps. These pumps are chosen for their efficiency, dependability, and compact size. These pumps are extremely durable and can even run dry with no damage to the pump.

**Electrical** — All electrical construction is done to recognized standards. Rigid or flexible PVC conduit and PVC junction boxes are used to prevent corrosion.

Only NEMA 4X non-metallic enclosures are used. All electrical systems are thoroughly tested before the treatment system is shipped.

**Documentation** — All systems are provided with a complete set of documentation which includes component O&M manuals and wiring diagrams.

## PureBox™ ROWPU General Specifications<sup>1</sup>

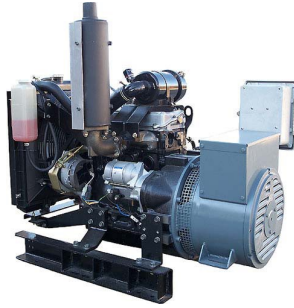
Feed Required	Container Type	Container Size L x W x H Weight	Ceramic Filter	RO Array	Nominal Product Capacity <sup>2</sup> (Gal/Day)	Power Required
3.5 gpm Service	Heavy Duty Steel Frame with Removable Side Panels	4' 6" x 3' x 4' 350 lbs	65 ft <sup>2</sup>	Six 2.5" x 40" Elements in Series	1,500 @ 10 GFD	4 kW
7 gpm Service	QuadCon Shipping Container	8' x 4' 9-3/8" x 6' 10" 2500 lbs	130 ft <sup>2</sup>	Six 4" x 40" Elements in Series	5,000 @ 10 GFD	7 kW
33 gpm Service	Intermodal Shipping Container	20' x 8' x 8' 6" 7500 lbs	380 ft <sup>2</sup>	Four 8" x 40" Elements in Series	20,000 @ 11 GFD	26 kW

<sup>1</sup> Specifications are subject to change without prior notice.

<sup>2</sup> Actual capacity may vary with feed water quality and temperature.

The RODI Systems PureBox™ ROWPU water treatment systems are available with a number of options. This allows clients to customize a system to fit their particular water treatment application.

**Integral Generator** — The system can be equipped with an integral diesel genset. This option also includes an integral fuel tank for extended operation. The genset is capable of operating the entire treatment system in addition to providing auxiliary power for other uses related to the site.



**Hypochlorite Injection** — A chemical injection system can be provided to inject sodium hypochlorite (bleach) into the RO permeate to insure disinfection of the stored permeate. The hypochlorite injection system includes an injection pump and chemical day tank.

**Trailer Mounting** — With this option, the container housing the ROWPU is mounted on a heavy duty trailer. The trailer is equipped with ISO locks at each corner to lock the ROWPU container to the trailer forming an integral mobile treatment system.

**Carbon Adsorption Post-treatment** — In applications where taste, odor, or trace organic contaminants might be present, the ROWPU can be equipped with a carbon adsorption polishing filter.



**Climate Control** — The container housing the system can be equipped with approximately 2 inches of solid foam insulation covered with rigid waterproof plastic. The container may also be equipped with an electric heater.

**Operator Training** — Training is available at RODI's facility for those individuals responsible for operating and maintaining the PureBox™ systems. Training and technical support are also available on-site for most locations.



**Remote Monitoring** — This option allows the system to be monitored remotely via the GSM cellular phone network.

