ultra pure™ SYSTEMS

VISTA RO 2500GPD

DELIVER EXTREMELY CLEAN WATER TO YOUR CRITICAL PROCESS EQUIPMENT

UltraPure Systems Vista Reverse Osmosis Systems are completely contained in a sleek industrial grade cabinet with single point connections for ease of installation and placement virtually anywhere. Each unit has an integral 4-stage process to remove harmful substances, such as heavy metal ions and total dissolved solids from domestic water sources. This purification process will convert municipal water to a consistently higher purity level, suitable for multiple types of humidifiers and other equipment.

Neatly packed in a sturdy 1/2" welded high density polyethylene plastic cabinet with a hinged door makes this single point connection system ideal for small reverse osmosis applications. With our advanced system controller you can monitor City PPM and RO water quality at a glance via the highly visible GREEN and RED illumination on the front of the cabinet. GREEN indicating proper water quality and RED indicating an alarm condition, such as water quality no longer being within acceptable range. Serving AND protecting your process and equipment investment.

Maintain and optimize your system's performance with our unique Query Code System. As a standard part of every system, this simple, friendly, powerful, no cost mobile application enables customers to manage routine filter Maintenance from anywhere, including on-site or remotely.

BENEFITS

- Eliminate down time due to consumed filters (proactive vs. reactive)
- Stay ahead of the curve with automatically generated email notifications
- Predictable data budgeting on annual filter costs
- No binding contracts or licensing fees required

ultra pure™ SYSTEMS

VISTA RO 2500GPD

System Summary - UPS 2500GPD

3 Stage reverse osmosis process. The final purity of the water leaving the reverse osmosis system is dependent on incoming water condition. Once water levels exceed 150ppm the reverse osmosis membrane should be replaced. This system flow is rated at **2500 gpd** +/- 15% based on 77° entering water, 100 psi applied pressure.
500 ppm NaCI softened filtered water.

Feed Pressure	Operating Temperature	Electrical Rating	Amp Max	Dry Weight	Total Weight
50-125 psi	40-100° F	120 VAC/60Hz	MFS 20	210lbs	240lbs

Stage 1 : Sediment Filter

Engineered for expanded volume and higher flow rates for commercial applications such as equipment protection and water polishing. Each filter is pretested for maximum pressure and temperature.

Quantity Per System	1
Model Number	UPF_4283
Filter Dimensions	4" OD x 40" L
Rating	75/25 Micron
Max Operating Pressure	125 PSI
Operating Temperature	40 - 100F

Features and Benefits:

- Protect equipment from hard water
- Large Filter Surface Area 2" x 20"
- Capacities of up to 20,000 gallons
- Spin off canister for ease of replacement
- Best cost to performance ratio in the industry

Test Information: Housings and fittings have been tested for performance to NSF Standard 42. Tests included Hydro Static Testing at 300 psig and Cycle Testing of 100,000 repetitions from 0 to 150 psig. Filters have been tested and listed under Standard 42 for odor, and chlorine reduction; or particulate reduction; or have been materials certified. All filters should be installed on cold water lines.

Warranty Information: Filters are warrantied to be free from any defects in workmanship or materials. Further, the warranty provided applies, only when used with the product specifications and service life, from the date of install or 5 years from the date of manufacture whichever occurs first, beyond which time or use Ultra Pure Systems is absolved of any and all liability for any use of the product.

ultra pure™ SYSTEMS

VISTA RO 2500GPD

Stage 2 : Carbon Filters

Engineered to expanded volume and higher flow rates for commercial applications such as equipment protection and water polishing. Each filter is pretested for maximum pressure and temperature.

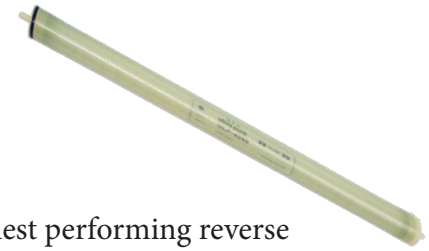
Quantity Per System	**1**
Model Number	**UPS_4284**
Filter Dimensions	**4" OD x 40 " L**
Rating	**10 Micron**
Max Operating Pressure	**125 PSI**
Operating Temperature	**40 - 100F**

Features and Benefits:

- Protect equipment from hard water
- Large Filter Surface Area 2" x 17.5"
- Capacities of up to 20,000 gallons
- Spin off canister type filter cartridge
- Best cost to performance ratio in the industry

Test Information: Housings and fittings have been tested for performance to NSF Standard 42. Tests included Hydro Static Testing at 300 psig and Cycle Testing of 100,000 repetitions from 0 to 150 psig. Filters have been tested and listed under Standard 42 for odor, and chlorine reduction; or particulate reduction; or have been materials certified. All filters should be installed on cold water lines. **Note:** Activated carbon filters are not intended to be used where the water is micro-biologically unsafe or with water of unknown quality without adequate disinfection before or after the unit.

Warranty Information: Filters are warrantied to be free from any defects in workmanship or materials. Further, the warranty provided applies, only when used with the product specifications and service life, from the date of install or 5 years from the date of manufacture whichever occurs first, beyond which time or use Ultra Pure Systems is absolved of any and all liability for any use of the product.



Stage 3 : Membrane Filter

Polyamide thin-film composite membranes are one of the industry's most reliable and highest performing reverse osmosis elements. The high flow membranes are available in all standard commercial sizes and feature a protective Stainless Steel Sleeve. Advanced membrane technology and manufacturing processes ensure high quality and performance.

Quantity Per Unit	**1**
Model Number	**UPF_5299**
Filter Dimensions	**4 x 40"**
pH Range	**2 - 11**
Max Operating Pressure	**600 PSI**
Operating Temperature	**40 - 100F**

Features and Benefits:

- Polyamide thin-film composite membrane
- Available in all standard commercial sizes
- Stainless steel housing
- Meets and exceeds NSF standards
- Half the operating pressure of standard high rejection membranes

Test Information: 550 TDS Filtered (5 Micron), De-chlorinated, Municipal Feed Water, 77°F, 15% Permeate Recovery, 6.5 - 7.0 pH range, at the specified operating pressure. Data taken after 30 minutes of operation. Maximum pressure drop for each element is 15 psi. Minimum salt rejection is 96%. Permeate flow for individual elements may vary +/- 20%.

ultra pure™ SYSTEMS

VISTA RO 2500GPD

Optional UV Sterilizer

Optional UV Sterilizer can be added to each system. Water will pass through UV light as a last pass prior to going into water storage tank. UV Sterilizer is sized for system nominal capacity and pre-wired integral of system. Blue LED light inside cabinet indicates UV light is on. Bulb and Sleeve replacement is recommended every 10,000hrs.

Product Water Storage Tank

High strength, cold rolled steel tank finished w/ an epoxy resin and high quality polyurethane finish. Copolymer poly-propylene lower water chamber w/ a 100% butyl diaphragm. Durable, high-quality steel tank for the toughest conditions. (**External of RO cabinet**)

Model Number	UPT_9293
Total Capacity	85 Gallons
Dimensions	46" OD x 26" T
Connection Size	1 1/4" FPT
Weight	118lbs
Max Operating Pressure	125 PSI

Larger capacity (120 Gallon) water storage tanks available for this model upon request.

Features and Benefits:

- Discharges in any position
- Exceeds NSF and ANSI standards
- 100% butyl diaphragm liner
- Strong, Long Lasting Polypropylene Liner
- Environmentally safe, 100% lead-free

RO Controller

The ROC-5 is a state of the art RO system controller built integral of each system. This controller will enable auto-matic operation year round. System will automatically turn on when pressure in storage tank is below 40psi. During operation clean water will be produced filling water storage tank. When pressure reaches 60psi the system shuts down. System cycles on-off automatically to maintain between 40-60psi in storage tank.

Range	0 - 999 ppm
Accuracy	+/- 2%
Dimensions	3.7" x 3.7" x 4.9"
Power Supply	AC 110V
Weight	2lbs 1.1oz
Conversion Factor	NaCl (avg 0.5)

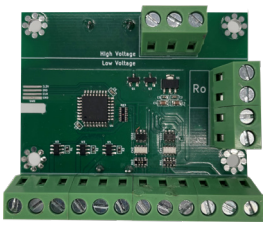
Features and Benefits:

- Simultaneous monitoring and control
- Exceeds NSF standards
- Large, bright, easily visible display
- Internal audible alarm based on user set points
- Isolated dry contacts for remote RO alarms.
- Internal Leak Detector shutting system down if water is detected

ultra pure™ SYSTEMS

VISTA RO 2500GPD

BMS Control Card



Each RO cabinet has a built in control card that resides inside electrical cabinet that is capable High RO PPM levels. Contacts are dry n/o isolated from any other use. Max switching voltage 125vac, 60vdc Max switching current 1A Min permissible load 1 mA @ 5vdc . During normal operation, contacts remain closed. When motor stops running, readings are locked and contacts are unable to change position. Upon start-up, timer initiates and after 45 seconds real time readings and alarms are active.

Motor and Rotary Vane Pump

The Ultra Pure 2500 GPD system comes equipped with a split-phase induction motor used for hub-mounted pump.

Motor Specifications	
Power Output	.75 HP
Voltage	115v
RPM Range	1701 -1800
Pump Specifications	
Max Operating Pressure	230 psi/up to 16 bar
Inlet/Outlet Port Size	1/2”- 1/2”

Motor Features and Benefits:

- Low amp draw design for 115V/60Hz operation
- UL recognized and CSA Certified
- High starting and breakdown torque
- Continuous duty at nameplate ratings

Pump Features and Benefits:

- AISI 303 Stainless steel housing and rotor
- Carbon graphite pumping chamber and vanes
- Direct-mounted motor connection via SS clamp

ultra pure™ SYSTEMS

VISTA RO 2500GPD

John Guest LLDPE Tubing

The John Guest PE range of plastic tubing is produced in Linear Low Density Polyethylene for cold and intermittent hot water applications. The tubing provides the benefits of a wide range of temperature and pressure suitability, broad chemical compatibility and is made from non contaminating materials. LLDPE is more robust than traditional low or medium density polyethylene and is recommended for use with cold and intermittent hot water. The tubing is made from FDA compliant materials and is NSF International certified.

Tube Tolerances	**1/4"- 1/2" : +0.001/-0.004**
Max Temperature	**150°F**
Tube Dimensions	**1/4" OD - .170" ID**
Tube Dimensions	**5/16" OD - .187ID**
Weight	**2lbs 1.1oz**
Conversion Factor	**NaCl (avg 0.5)**

Internal Tubing Color Key

Yellow	**Blue**	**Black**
Incoming City	**Reverse Osmosis**	**Reject**

Features and Benefits:

- Broad chemical compatibility
- Made from all non-contaminating materials
- Stronger than standard polyethylene tubing
- NSF International certified.
- Quick disconnection with NO NEED FOR TOOLS

John Guest "push-fit" Fittings

John Guest fittings are manufactured in grey and acetal copolymer with RED safety clips attached to each fitting.

Standard Sizes	**¼" ⅜" ½"**
Max Pressure 3/16" - 5/16"	**150 psi**
Max Pressure ⅜" - ½"	**150 psi**
Max Temperatures	**-2° - 149° F**

Features and Benefits:

- Push-fit technology fast, simple & secure
- Suitable for soft metal or plastic tubes
- Suitable for air or inert gases
- Superior flow characteristics
- Quick disconnection without the need for tools

ultra pure™ SYSTEMS

VISTA RO 2500GPD