



OSR-UPWS-25/50
Ultrapure Laboratory-Grade Water Systems

Aquatic Solutions is “Preferred Partner for Turnkey Water Treatment Solutions”.

Established in 2006, we have goal of providing high quality service worldwide. We are unique with combination of Knowledge & Experience in Water Treatment. We provide comprehensive spectrum of technologies for producing all grades of Water required in Testing Lab, R&D and Production.

CONCEPT OSR-UPWS-25/50

Ultrapure water directly from tap water feed

For laboratories that do not have a reliable source of pure water, Aquatic Solutions offers compact water systems producing pure and ultrapure water directly from tap water.

This concept offers several benefits:

It allows installation of a complete water system in minimum amount of space in any lab with tap water feed
It eliminates the need for central water purification systems and the associated water delivery loops which may be complex, expensive, difficult to maintain and to extendIt gives the users of the water system complete control over all water purification steps and the final water quality.

INSIDE OSR-UPWS-25/50

Three Stage Pre-Treatment Systems

- 1st Stage: Removes Particles upto 0.5 microns, avoids clogging of system
- 2nd Stage: Removes free Chlorine & colloids to protect the system
- 3rd Stage: Removes Particles upto 0.5 microns ensures complete safety for system

Advance Reverse Osmosis

Reverse Osmosis (RO), the second step removes 90-95% of ions and 99% of all dissolved organic substances (MW>200 Daltons), micro-organisms and particles. Safety features like low pressure switch & auto flushing valve are provided to ensure efficient working & lower maintenance.

Polishing Deionizer

Ultrapure Water of very low conductivity is achieved through this unit which cannot be otherwise obtained by any commercial production methods. The Internal Chemical Media which needs to be replaced after 4000 lit of deionized water is extracted from it. It may vary from case to case basis, our expert engineers are best to judge and suggest.

Ultraviolet Lamp (UV)

Water is Sanitize with a high dose of ultra violet light energy at a wave length of 254 nanometers destroys pathogenic microbes by affecting the DNA in the cell and multiplication of micro-organisms gets stopped with this they can’t reproduce. When we use UV with RO-DM Technology, UV Technology provides additional sterilization to the water leaving no scope for bacteria. It is the final stage of purification system.

SPECIFICATION OSR-UPWS-25/50

Feed Water Requirements

- Conductivity** : < 2000 µS/cm (@ 25 °C)
- pH** : 4 - 10
- Maximum LSI** : < 0.3
- Calcium (as CaCO3)** : < 300 ppm (when system water recovery > 30 %)
- Total Chlorine level** : Aquatic Solutions Application Specialist will determine pre-treatment required
- Fouling index** : Aquatic Solutions Application Specialist will determine pre-treatment required
- Feed water Pressure** : 2 bar minimum, 6 bar maximum (29 psi min, 86 psi max)
- Flow rate** : > 2 l/min at 2 bar (0.5 gal/min at 29 psi)

General Specifications

Water connections	Electrical requirements	Approx Dimensions (H x W x D)	System operating weight
System feed: ½”-Angle Valve Product: 3/8 -in tubing RO reject: 3/8- in tubing	230 V/50 Hz, 5 A, (10 A Slo-Blo fuse)	733 mm x 700 mm x 350 mm (28.9 x 27.5 x 13.7 in) additional 47 mm (1.8 in) width required for plumbing Connections	OSR-UPWS-25: 40 kg (88 lbs) OSR-UPWS-50: 45 kg (99 lbs)

“Quality & Service Our Priorities”

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