



# Aquatic Solutions

Water Treatment Plants & Chemicals  
Waste Water Plants & Chemicals  
www.aquaticsolutions.in



## OSR-ECO-100/250/500/1000 Economical Range of RO 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, Production & Drinking.

### CONCEPT OSR-ECO-100/250/500/1000

#### Ultrapure water directly from tap water feed

For laboratories, R&D, Production & Drinking 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 with tap water feed & power supply
- 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 extend
- It gives the users of the water system complete control over all water purification steps and the final water quality.

### INSIDE OSR-ECO-100/250/500/1000

#### Pre-Treatment Systems -Three Stages

- 1<sup>st</sup> Stage: MultiGrade Sand Filter-Removes Particles upto 150 microns, avoids clogging of system
- 2<sup>nd</sup> Stage: Activated Carbon Filter-Removes free Chlorine, odour, taste, organic matter & colloids to protect the system
- 3<sup>rd</sup> Stage: Micron Filtration-Removes Particles upto 1.0 microns ensures complete safety for system

#### Advance Stage 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.

#### Post-Treatment System- Ultraviolet System (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 Technology, UV Technology provides additional sterilization to the water leaving no scope for bacteria. It is the final stage of purification system.

### SPECIFICATION OSR-ECO-100/250/500/1000

#### Feed Water Requirements

<b>Conductivity</b>	: <2000 µS/cm (@ 25 °C)
<b>pH</b>	: 4 - 10
<b>Maximum LSI</b>	: < 0.3
<b>Calcium (as CaCO3)</b>	: < 300 ppm (when system water recovery > 70-80 %)
<b>Feed water Pressure</b>	: 2 bar maximum
<b>Flow rate</b>	: > 100/200/500/1000 lph at 0.2 bar

#### Salient Features:

- Online TDS Indicators gives you exact quality of RO Treated Water
- Auto Operation features enable hassle free operation & regeneration
- Sturdy SS Skid Mounting, High quality PVC Piping, Pressure Indicators, Pressure Switch, Level Sensors
- Ready Cleaning in Place arrangement in piping for Membrane cleaning
- Additional Features like Storage Tank, Piping can be attached easily
- All documents like foundation drawing, test certificated, operating manual, One Year Warranty Certificates, etc provided

#### General Specifications

Water connections	Electrical requirements	Approx Dimensions (H x W x D)	System operating weight
System feed: 1"-Angle Valve Product: 3/4 -in BSP RO reject: 3/4"- in BSP	3 phase-5hp	L1200 mm x B600 mm x H1500 mm (48 x 24 x 59 in) additional 47 mm (1.8 in) required for plumbing Conn	OSR-RO-100: 60 kg OSR-RO-250: 100 kg OSR-RO-500: 120 kg OSR-RO-1000: 170 kg

“Quality & Service Our Priorities”

### Aquatic Solutions

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