



## OSR-DM

### Demineralisation 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-DM

#### Demineralised Water from Any Feed Water

For laboratories, R&D, Production 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, R&D Centre, Production area with tap water feed

It eliminates the need for central water purification systems and the associated water delivery loops which may be complex, expensive, and 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-DM

#### Pre-Treatment Systems

**MultiGrade Sand Filter (OSR-MGF)** is the first stage to DM unit, it filters out the suspended solids, silt from the inlet water. It consist of different layers of sand media to ensure complete filtration. OSR-MGF prevents formation of silt layer, clogging & microbial growth on resin bed layer.

#### Advance 1<sup>st</sup> Stage Demineralisation

**Demineralisation (OSR-DM)**, the second step removes 85-90% of ions and 99% of all dissolved organic substances and particles. Safety features like conductivity indicator & auto flushing valve are provided to ensure efficient working & lower maintenance. Once the calculated amount of demineralised water is extracted of DM Unit it has to be regenerated with acid/alkaline solutions. Our expert engineers are best to judge and suggest the quantity & duration.

#### Polishing 2<sup>st</sup> Stage Mixed Bed

**Mixed Bed (OSR-MB)**, the third step removes 95-99% of ions and 99% of all dissolved organic substances and particles. Ultrapure Water of very low conductivity is achieved through this unit .Safety features like conductivity indicator & auto flushing valve are provided to ensure efficient working & lower maintenance. Once the calculated amount of demineralised water is extracted of MB Unit it has to be regenerated with acid/alkaline solutions. The quality achieved may vary from case to case basis, our expert engineers are best to judge and suggest.

#### Sterilization 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 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-DM

#### Feed Water Requirements

Conductivity	: < 2500 $\mu$ S/cm (@ 25 °C) Max
pH	: 6 - 8
Maximum LSI	: < 0.3
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	: 3 bar minimum, 6 bar maximum (29 psi min, 86 psi max)
Flow rate	: As per User requirement
OBR	: As per User requirement

#### Salient Features:

Flow Indicators with Batcher gives you exact quantity with alarm for DM Water Utilised

Auto Operation features enable hassle free operation & regeneration

Hot Water Sanitisation, Auto Flushing & Recirculation to avoid micro-organisms growth

Additional Features like Storage Tank, Distribution Loop

All Validation documents like DQ, IQ, OQ protocol, test certificated, material certificates, instrument calibration certificates etc provided

“Quality & Service Our Priorities”

### Aquatic Solutions

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