Pure Water. Pure Trust. — South India's Trusted RO Manufacturer

✓ ISO 9001:2015 CERTIFIED

Product Specification Sheet • November 2026



DM / ULTRAPURE WATER SYSTEMS

BLUENEST MediRO-P50

50 LPH RO DM Water Treatment Systems for Laboratories

Bluenest DM (Deionized) Water Treatment Systems are engineered to deliver consistent high-purity water using advanced RO and ion exchange technology for critical laboratory and industrial applications. Designed for superior removal of dissolved salts, ions, and contaminants, the system ensures low conductivity and reliable performance. Its compact, robust construction with premium components guarantees durability and long service life. Intelligent controls and efficient operation make it user-friendly and low-ma...

- High Purity Output
- Low Maintenance
- Energy Efficient
- Compact Design
- ISO 9001:2015 Certified

Technical Specifications

Output Water Quality	ASTM Type II (Type I on request)
Conductivity	< 0.1 µS/cm
Capacity	50 LPH
Feed Water Quality	RO permeate / softened water
Pre-treatment	RO + Activated carbon + Cation + Anion resin
Resin Type	Nuclear-grade mixed-bed cation/anion resin (regeneratable)
Silica	< 0.01 mg/L

Online Monitoring	Resistivity, conductivity, TOC, pH — continuous
Piping Material	CPVC / Sanitary fittings
Operating Pressure	3–6 bar
Power Supply	230V / 1-phase / 50Hz
Dimensions (L×W×H)	900 × 450 × 1400 mm
Resin Regeneration	External (acid/alkali)
Warranty	1 year Free Maintenance

Key Features

- Mixed-bed DI resin columns — nuclear-grade cation and anion resin
- Continuous electrodeionisation (CEDI) option available
- Built-in RO pre-treatment stage
- UV (254nm) + 0.2µm membrane final polishing
- Online resistivity / conductivity monitoring — continuous
- SS316L / PVDF chemical-resistant piping
- Low TOC design (< 10 ppb standard)
- Sanitisable loop option for pharmaceutical water systems
- Regeneratable resin columns — long service life
- Compact modular design — small footprint

Applications

- Analytical and research laboratories (ASTM Type I / II)
- Pharmaceutical water-for-injection (WFI)
- Electronics and semiconductor fabrication
- Boiler feed water (zero hardness required)
- Dialysis (haemodialysis) water systems
- Clinical and hospital central sterile labs
- Calibration and instrument testing facilities
- Aerospace and defence labs

WHY BLUENEST?

500+	15+	6	20+	ISO
INSTALLATIONS	YEARS EXPERIENCE	STATES COVERED	ENGINEERS	9001:2015

Get Pricing, Customisation & AMC Support

Our engineers are ready to design the right system for your requirement

SALES	SUPPORT	EMAIL	WEBSITE
7530099882	**7530099881**	**sales@bluenest.in**	**www.bluenest.in**

HEADQUARTERS

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