BLUENEST

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-P20

20 LPH DM Plant

- 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)
Resistivity	1–15 MΩ·cm (Type I: up to 18.2 MΩ·cm)
Conductivity	< 0.1 µS/cm
Flow Rate	20 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 (regenerable)
TOC	< 10 ppb (Type I: < 5 ppb)
Silica	< 0.01 mg/L

Endotoxins	< 0.001 EU/mL (pharmaceutical grade)
Online Monitoring	Resistivity, conductivity, TOC, pH — continuous
Post-polishing	0.2 µm membrane filter + UV 254nm lamp
Piping Material	SS316L / PVDF / Sanitary fittings
Operating Pressure	3–6 bar
Power Supply	230V / 1-phase / 50Hz
Dimensions (L×W×H)	1000 × 500 × 1500 mm
Resin Regeneration	External (acid/alkali) or disposable cartridge
Warranty	1 year on plant

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

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HEADQUARTERS

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