



DM / ULTRAPURE WATER SYSTEMS

BLUENEST MediRO-P20

20 LPH DM Plant

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

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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

F 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

A 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+
INSTALLATIONS

15+
YEARS EXPERIENCE

6
STATES COVERED

20+
ENGINEERS

ISO
9001:2015

Get Pricing, Customisation & AMC Support

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

SALES

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SUPPORT

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HEADQUARTERS

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