



WATER BETA SERIES

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Product Overview

The Water Purifier Smart series features a full ABS engineering plastic casing and a water-electricity separation design. It utilizes a new modular integrated circuit, a dual-membrane process design, an advanced EDI continuous electro-deionization module, and a large-capacity nuclear-grade ion exchange purification unit to meet demanding professional laboratory water needs.

Product Features

1. Advanced Multi-Stage Purification – Combines pre-treatment, ultrafiltration, RO, purification and ultrapure-water technologies for high-quality laboratory water.
2. Pure & Ultrapure Water Production – Designed to simultaneously provide Type II pure water and Type I ultrapure water for demanding laboratory applications.
3. High-Purity Water Quality – Ultrapure water can achieve up to 18.25 MΩ·cm resistivity at 25°C, with online quality monitoring.
4. High RO Desalination Efficiency – RO membrane provides a desalination rate of approximately ≥98% when using a new membrane.
5. Multiple Series Configurations – Available in Super, Super-Antibacteria and Super-Chromatography configurations to meet different laboratory requirements.
6. Advanced Contamination Control – Depending on configuration, the system provides low TOC, bacteria, RNase, DNase, micro particle and heavy-metal levels.

FEATURES

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Technical Specifications

Parameter	BETA	BETA-Antibacteria	BETA-Chromatography
Model	DS-BETA 10S/20S/30S/40S	DS-BETA-UV- 10U/20U/30U/40U	DS-BETA-EDI-10SV /20S
Process Configuration	Preprocessor + Ultrafiltration + RO + Purification + Ultrapurification	Preprocessor + Ultrafiltration + RO + Purification + UV + Ultrapurification + Terminal filtration	Preprocessor + RO + Purification + EDI + Ultrapurification
Production (L/H)	10/20/30/40	—	10/20
Instant Output	—	Max 2 L/min	—
Source Water	Tap water, 1–45°C, 0.1– 0.5 MPa, TDS <300 ppm	Same	Same
RO Membrane Desalination Rate	≥98% (When using new RO membrane)	≥98%	≥98
Water of pure water quality			
Conductivity	≤1 μS/cm @25°C (Online monitoring)		
Resistivity	18.25 MΩ·cm @25°C (Online monitoring)		
Absorbance 254 nm, 1 cm	≤0.001		
Soluble Silicon (SiO ₂)	<0.01 mg/L		
Silicon Retention Rate	>99.9%		

Parameter	BETA	BETA-Antibacteria	BETA Chromatography
Micro particles (>0.1 μm)	<1/mL		
TOC	≤10 ppb	≤5 ppb	≤3 ppb
Heavy Metal Ion Content	≤0.1 ppb		
Heat Source	<0.001 Eu/mL (Optional heat source removal ultrafiltration)		
Bacteria Content	<1 cfu/mL	<0.01 cfu/mL	<0.1 cfu/mL
Ribonuclease (RNases)		<1 pg/mL	
Deoxy ribonuclease (DNases)		<5 pg/mL	
Power Supply	220V/50HZ		
Power Consumption	40W-100W		
Noise	<40(dB)		
Main Unit dimension	560*440*550mm		
Weight	30kg-35kg		

