

Direct-Pure EDI Water Systems



Direct-Pure EDI lab water system produces Type II water from tap water directly. Product water at $>5 \text{ M}\Omega \cdot \text{cm}$ that meets or exceeds Type II water quality as defined by ASTM*, CAP, CLSI and ISO* 3696/BS 3997. Direct-Pure EDI system delivers water that complies with the Purified Water requirements from the European and U.S. Pharmacopoeia.

Features

- The Best in Class Siemens EDI module delivers high quality Type II water.
- System has automatic water quality control to ensure EDI water meet or exceed Type II water standards.
- Fully automated control system has pre-rinse, RO membrane fouling preventing flush, RO membrane life detection and many other functions.
- System automatically rinses a new RO membrane. User does not need to set special rinse program for a new RO membrane.
- User can set water dispensing time for the ease of water collection.
- System comes standard with a 30-liter PE tank and a liquid level sensor, upgradable to a 60-liter PE tank.
- Tank vent filter with CO_2 scavenger to preserve EDI water from carbon dioxide contamination.
- Rephile can provide full document support to meet user's GMP, GLP, FDA and other certification requirements.

Main Applications

Type II Pure water can be used in many areas. Some of the typical applications are.

- Preparation of bio-reagents
- Preparation of culture media
- Preparation of solution for chemical analysis such as HPLC, ICP etc.
- For clinical analyzers
- Feed water for ultrapure water systems
- Medical device and equipment rinsing
- For serum and blood fractions
- For ophthalmics



Specifications

Feed water quality	
Tap water*	Municipal water, TDS <1000 ppm (2000 μ S/cm)
Water temperature	5 ~ 45 °C
Water pressure	15 ~ 60 psi (1-4 bar)
Water Production Rate	
Type II water	Typically 5, 10 L/h (at 25°C)
Product Water Quality	
Resistivity	>5 M Ω ·cm @ 25°C (typically > 10 M Ω ·cm @ 25°C)
TOC	< 30 ppb
Particles in Ultrapure Water (>0.2 μ m)	< 1 /mL
Microorganisms	< 1 cfu/ml
Pyrogens (endotoxins)	< 0.001Eu/ml (with a terminal ultrafiltration cartridge)
Dimensions	
Length x Depth x Height	30 cm x 49 cm x 48 cm
Net Weight (Operating Weight)	22~25 kg (25~32 kg)

* If water hardness is greater than 1000 ppm, Rephile suggest you to use an external water softening device to protect the RO membrane.

Ordering Information

Description	Catalogue Number
Direct-Pure EDI 5 Pure Water System	RD0E00500
Direct-Pure EDI UV 5 Pure Water System	RD0E005UV
Direct-Pure EDI 10 Pure Water System	RD0E01000
Direct-Pure EDI UV 10 Pure Water System	RD0E010UV
RO membrane, 1/PK	RAR010000
Polypropylene Depth Filter, 10 Inches 1 μ m , 12/PK	LABPA0112
Polypropylene Depth Filter, 10 Inches 10 μ m , 12/PK	LABPA1012
Activated Carbon cartridge, 10 Inches, 12/Pk	LABAC1012
Softening cartridge, 10 Inches, 12/Pk	LABAT1012
30-liter PE tank	RATANK030
60-liter PE tank	RATANK060

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