

Direct-Pure[®] EDI

Produce Type II water from tap water directly

Resistivity of the product water is above 5 MΩ·cm at 25 °C , which meets or exceeds Type II water quality as defined by ASTM, CAP, CLSI and ISO 3696 / BS 3997 and also complies with the Purified Water requirements from the European and U.S. Pharmacopoeia. The system is CE and RoHS certified.

Features

- The system incorporates the best in class Siemens EDI module and stringently selected RO membrane, to deliver high quality Type II water consistently at a relatively low cost.
- The system is equipped with a safeguard cartridge to provide complete protection of RO membrane and EDI module.
- Automatic water quality control programs ensure EDI product water meeting or exceeding Type II water requirements.
- The fully automated control system contains pre-rinse, RO membrane fouling preventing flush, RO membrane life monitoring as well as many other programs for convenient operation.
- The pre-rinsing program starts automatically once a new RO membrane is installed so there is no need for users to set up additional cleaning procedures.
- User can set water dispensing time for easy water collection.
- Remote dispenser is optional.
- The system can be fit with a 30 or 60-liter PE tank with a liquid level sensor and a tank vent filter with CO₂ scavenger to preserve EDI water from the air contamination.
- Rephile can provide full document support to meet users' 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 chemical and bio-reagents
- Preparation of culture media
- Preparation of solutions for chemical analysis such as HPLC and ICP
- For clinical analyzers
- Medical device and equipment rinsing
- For serum and blood fractionation
- For ophthalmics
- Feed water for ultrapure water systems



*Consistent and Reliable
Optimized Operation Costs*

A combination of advanced technologies

Accessories

Water Softener



- ◆ To prevent the RO membrane and EDI module from scaling

RephiTEKT Prefiltration System



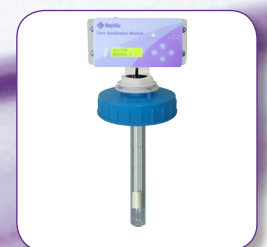
- ◆ To protect RO membrane and EDI module to maximize the lifetime of the system

PE Water Reservoir



- ◆ Designed to minimize the risk of bacteria growth and air-borne contamination during the storage

Tank Sanitization Module



- ◆ To inhibit growth of microbes inside the tank

Specifications

Direct-Pure EDI	
Feed Water Requirements	
Tap water	Municipal water, TDS <1000 ppm (2000 µS/cm)
Operating temperature	5 - 45 °C
Feedwater pressure	15 - 90 psi (1 - 6 bar)
Product Water Flow Rate	
Type II water (@25°C)	5, 10, 15 L/hr
Product Water Quality	
Resistivity (@ 25°C)	> 5 MΩ ·cm (typically 10 - 15 MΩ ·cm)
TOC*	< 30 ppb
Particles (> 0.2 µm)	< 1/ml (with a 0.2 µm final filter or terminal ultrafiltration cartridge)
Microorganisms	< 0.1 cfu/ml (with a 0.2 µm final filter or terminal ultrafiltration cartridge)
Pyrogens (endotoxins)	< 0.001 Eu/ml (with a terminal ultrafiltration cartridge)
Dimensions	
Main system Length x Depth x Height	30 cm x 51 cm x 48 cm
Dispenser Diameter x Height	22 cm x 74 cm

* Product water quality may vary due to local feed water conditions.

Ordering Information

Description	Voltage	Cat. No.
Direct-Pure Water System, EDI 5	230 V/50 Hz	RD0E0050E
	110 V/60 Hz	RD1E0050E
Direct-Pure Water System, EDI 5 UV	230 V/50 Hz	RD0E005UE
	110 V/60 Hz	RD1E005UE
Direct-Pure Water System, EDI 10	230 V/50 Hz	RD0E0100E
	110 V/60 Hz	RD1E0100E
Direct-Pure Water System, EDI 10 UV	230 V/50 Hz	RD0E010UE
	110 V/60 Hz	RD1E010UE
Direct-Pure Water System, EDI 15	230 V/50 Hz	RD0E0150E
	110 V/60 Hz	RD1E0150E
Direct-Pure Water System, EDI 15 UV	230 V/50 Hz	RD0E015UE
	110 V/60 Hz	RD1E015UE
Direct-Pure Water System, EDI 5 UV, with dispenser	230 V/50 Hz	RD0EP05UE
	110 V/60 Hz	RD1EP05UE
Direct-Pure Water System, EDI 10 UV, with dispenser	230 V/50 Hz	RD0EP10UE
	110 V/60 Hz	RD1EP10UE
Direct-Pure Water System, EDI 15 UV, with dispenser	230 V/50 Hz	RD0EP15UE
	110 V/60 Hz	RD1EP15UE

Rephile provides complete water purification solutions

Rephile not only supplies the lab with Type II water systems, but also offers total water purification solutions for pretreatment, storage and production of ultrapure water.

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