

Large Direct-Pure[®] EDI

High-flow water systems designed to produce Type II water from tap water directly

Flow rates range from 30 to 125 liters per hour. Resistivity of product water is above 5 M Ω -cm that meets or exceeds Type II water quality standards as defined by ASTM, CAP, CLSI, ISO 3696 / BS 3997, European and U.S. Pharmacopoeia. The system is CE and RoHS marked.

Features

- The system incorporates the best in class Siemens EDI module and stringently selected RO membrane, to deliver large amount of quality Type II water consistently at a relatively low cost.
- 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.
- The pre-rinsing program starts automatically once a new RO membrane is installed so there is no need for user to set additional cleaning procedures.
- Product water can be dispensed from the water system directly.
- The system is upgradable to produce both Type II and Type I water by installing an ultrapurification cartridge inside the system.
- 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 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



An advanced system produces

Type I water ✓

Type II water ✓

System Setup

Water Softener



Pre-filtration Kit



EDI Water System



PE Water Reservoir



Specifications

Direct-Pure EDI	
Feed Water Requirements	
Tap water	Municipal water, TDS <1000 ppm (2000 µS/cm)
Operating temperature	5 - 45 °C
Feed water pressure	30 - 90 psi (2 - 6 bar)
Product Water Flow Rate	
Type II water (@ 25°C)	Typically 30, 60, 125 L/hr
Type I water (optional) (@ 25°C)	1.5 L/min
Product Water (Type II) 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	
Length x Depth x Height	40 cm × 49 cm × 110 cm

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

Ordering Information

Main System

Description	Voltage	Catalogue Number
Direct-Pure Water System, EDI 30	230 V/50 Hz	RD0E0300E
	110 V/60 Hz	RD1E0300E
Direct-Pure Water System, EDI 60	230 V/50 Hz	RD0E0600E
	110 V/60 Hz	RD1E0600E
Direct-Pure Water System, EDI 125	230 V/50 Hz	RD0E01H0E
	110 V/60 Hz	RD1E01H0E

Consumables

Description	Catalogue Number
RephiDuo U Pack TL Cartridge	RR500Q101
RephiDuo AT Pack Cartridge	RR500AT01
0.2 µm Final Capsule Filter, 1/Pk	RAFFC0200
254 nm UV Lamp	RAUV357A1
Reverse Osmosis Membrane, for EDI 30	RAR050001
Reverse Osmosis Membrane, for EDI 60, 125	RAR01H001
Pure Water Tank 350L, with pump support	RATANKP3H
Pure Water Tank 350L, without pump support	RATANK03H
Tank Sanitization Module	RAPRC0106
Tank Vent Filter	RATANKVL1
Distribution Controller	RAPRC0101C
Prefiltration Kit (20", 2-stage)	RW20211KT
Polypropylene Depth Filter, 20 Inches, 1 µm, 12/Pk	LABP20112
Polypropylene Depth Filter, 20 Inches, 10 µm, 12/Pk	LABP21012
Activated Carbon Cartridge, 20 Inches, 12/Pk	LABAC2012
Softening Cartridge, 20 Inches, 12/Pk	LABAT2012
500lph Water Softener System (Auto-regeneration, a complete set)	LAB0500AT
1000lph Water Softener System (Auto-regeneration, a complete set)	LAB1000AT
500lph Activated Carbon Filter (Auto-backwashing)	LAB0500AC
1000lph Activated Carbon Filter (Auto-backwashing)	LAB1000AC

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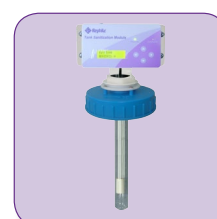
E-mail: info@rephile.com

Optional Accessories



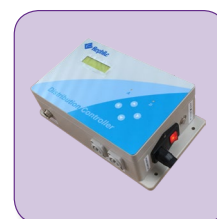
Sand & Carbon Filter

- ◆ Back-washable. To prevent the system from organic fouling and eliminate chlorine



Tank Sanitization Module

- ◆ To inhibit growth of microbes inside the tank



Distribution Controller

- ◆ Programmable control of the delivery of purified water from tank to points of use