

Direct-Pure[®] UP

Produces ultrapure and reverse osmosis (RO) water from tap water directly

Quality of ultrapure water meets or exceeds ASTM, CLSI, CAP, and ISO Type I water standards. The system is CE and RoSH certified.

NEW Real time TOC and RephiBlue mobile app available for systems with a dispenser !

Features

- The system contains pre-rinse, RO membrane fouling preventing flush, RO membrane and cartridge life monitoring programs for convenient operation.
- 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.
- Two sets of dual-column purification cartridges work sequentially to ensure thorough removal of ions and organics in water.
- Automatic hourly system recirculation prevents bacteria growth.
- User can set water dispensing time for easy water collection.
- Both RO and ultrapure water can be dispensed from the water system.
- 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 pure water from the air contamination.
- A 0.2 µm final filter or ultrafiltration filter (optional) removes final contaminants.
- RephiLe can provide full document support to meet users' GMP, GLP, FDA, and other certification requirements.



*Two-in-one Integrated System
Easy Maintenance & Cost-effective*

Specifications

Direct-Pure UP	
Feed Water Requirements	
Tap water	Municipal water, TDS < 1000 ppm (2000 µS/cm)
Operating temperature	5 - 45 °C
Feed water pressure	15 - 90 psi (1 - 6 bar)
Product Water Flow Rate	
RO water (@ 25°C)	10, 15, 20, 30, 50 L/hr
Ultrapure water (Type I) (@ 25°C)	up to 2 L/min
Product Water Quality	
RO water conductivity*	Typically < 20 µS/cm
Ultrapure water resistivity (@ 25°C)	18.2 M Ω · cm
TOC*	< 10 ppb (< 5 ppb with a dual wavelength UV lamp)
Particles in ultrapure water (> 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 × 51 cm × 48 cm
Dispenser Diameter x Height	22 cm × 74 cm

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

Introduction of Independent Ultrapure Water Dispenser



- Built-in high precision resistivity sensor with cell constant of 0.01 cm⁻¹
- Volumetric dispensing and calibration
- With a 360 degree-rotatable and detachable handle
- Height adjustable
- With RephiBlue mobile app for remote control and diagnosis from your mobile devices (for TOC models)
- Online TOC monitors the product water TOC level (for TOC models)

Main Applications

Ultrapure and RO pure water can be used in many areas. Here are some typical applications

With Ultrapure Water

- HPLC mobile phase preparation
- Preparation of reagent blank solutions
- As sample diluent for GC, HPLC, AA, ICP-MS and other analytical techniques
- Preparation of buffers and culture media for mammalian cell culture
- Preparation of molecular biology reagents, etc.

With RO Water

- Glassware cleaning
- Washing machine for glassware
- Water bath water
- Autoclave
- Feed water for laboratory animals

Ordering Information

Description	Voltage	Catalog No.
Direct-Pure Water System, UP 10	230 V/50 Hz	RD0P0100E
	110 V/60 Hz	RD1P0100E
Direct-Pure Water System, UP 15	230 V/50 Hz	RD0P0150E
	110 V/60 Hz	RD1P0150E
Direct-Pure Water System, UP 20	230 V/50 Hz	RD0P0200E
	110 V/60 Hz	RD1P0200E
Direct-Pure Water System, UP 30	230 V/50 Hz	RD0P0300E
	110 V/60 Hz	RD1P0300E
Direct-Pure Water System, UP 50	230 V/50 Hz	RD0P0500E
	110 V/60 Hz	RD1P0500E
Direct-Pure Water System, UP 10 UV	230 V/50 Hz	RD0P010UE
	110 V/60 Hz	RD1P010UE
Direct-Pure Water System, UP 15 UV	230 V/50 Hz	RD0P015UE
	110 V/60 Hz	RD1P015UE
Direct-Pure Water System, UP 20 UV	230 V/50 Hz	RD0P020UE
	110 V/60 Hz	RD1P020UE
Direct-Pure Water System, UP 30 UV	230 V/50 Hz	RD0P030UE
	110 V/60 Hz	RD1P030UE
Direct-Pure Water System, UP 50 UV	230 V/50 Hz	RD0P050UE
	110 V/60 Hz	RD1P050UE
Direct-Pure Water System, UP 10 UV, with dispenser	230 V/50 Hz	RD0PP10UE
	110 V/60 Hz	RD1PP10UE
Direct-Pure Water System, UP 15 UV, with dispenser	230 V/50 Hz	RD0PP15UE
	110 V/60 Hz	RD1PP15UE
Direct-Pure Water System, UP 20 UV, with dispenser	230 V/50 Hz	RD0PP20UE
	110 V/60 Hz	RD1PP20UE
Direct-Pure Water System, UP 30 UV, with dispenser	230 V/50 Hz	RD0PP30UE
	110 V/60 Hz	RD1PP30UE
Direct-Pure Water System, UP 50 UV, with dispenser	230 V/50 Hz	RD0PP50UE
	110 V/60 Hz	RD1PP50UE
Direct-Pure Water System, UP 10 UV, with dispenser and TOC	230 V/50 Hz	RD0PP10TE
	110 V/60 Hz	RD1PP10TE
Direct-Pure Water System, UP 15 UV, with dispenser and TOC	230 V/50 Hz	RD0PP15TE
	110 V/60 Hz	RD1PP15TE
Direct-Pure Water System, UP 20 UV, with dispenser and TOC	230 V/50 Hz	RD0PP20TE
	110 V/60 Hz	RD1PP20TE
Direct-Pure Water System, UP 30 UV, with dispenser and TOC	230 V/50 Hz	RD0PP30TE
	110 V/60 Hz	RD1PP30TE
Direct-Pure Water System, UP 50 UV, with dispenser and TOC	230 V/50 Hz	RD0PP50TE
	110 V/60 Hz	RD1PP50TE

System Setup



RephiTEKT Prefiltration System



Direct-Pure UP



PE Water Reservoir



RephiDuo Cartridges

Optional Accessories

- Water Softener
- Tank Sanitization Module
- Leak Protector