

# Direct-Pure<sup>®</sup> 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 RoHS certified.**

**On-line 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.
- Both RO and ultrapure water can be dispensed from the water system.
- The system can be fit with a 30, 60 or 100-liter PE tank with a liquid level sensor and a tank vent filter with CO<sub>2</sub> scavenger to preserve pure water from the air contamination.
- 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
<b>Feed Water Requirements</b>	
Tap water	Municipal water, TDS < 1000 ppm (2000 µS/cm)
Operating temperature	5 - 35 °C
Feed water pressure	1 - 6 bar (15 - 90 psi)
<b>Product Water Flow Rate</b>	
RO water (@ 25°C )	10, 20, 30, 50 L/hr
Ultrapure water (Type I) (@ 25°C )	Up to 2.0 L/min
<b>Product Water Quality</b>	
RO water conductivity*	Typically < 20 µS/cm
Ultrapure water resistivity (@ 25°C )	18.2 MΩ ·cm
TOC*	< 10 ppb (< 5 ppb with a dual wavelength UV lamp)
Particles	No Particles with size > 0.22 µm (with a 0.2 µm final filter or RephiBio filter)
Microorganisms	< 0.01 cfu/ml (with a 0.2 µm final filter or RephiBio filter)
Pyrogens (endotoxins)	< 0.001 Eu/ml (with a RephiBio filter)
RNase	< 0.5 pg/ml (with a RephiBio filter)
DNase	< 10 pg/ml (with a RephiBio filter)
<b>Dimensions</b>	
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<sup>-1</sup>
- 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 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 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 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 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