

# Direct-Pure<sup>®</sup> UP

Produce 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 certified.

## Features

- The fully automated control system contains pre-rinse, RO membrane fouling preventing flush, RO membrane and cartridge 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 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.
- Resistivity is measured by a highly sensitive resistivity sensor.
- Electrical and water compartments are completely segregated, thus safer to operate.
- 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 CO<sub>2</sub> 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*

## Main Applications

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

## System Setup

Pre-filtration Kit



Direct-Pure UP



PE Water Reservoir



RephiDuo Cartridges



## Specifications

Direct-Pure UP	
<b>Feed Water Requirements</b>	
Tap water	Municipal water, TDS <1000 ppm ( 2000 $\mu$ S/cm )
Operating temperature	5 - 45 °C
Feedwater pressure	15 - 90 psi ( 1 - 6 bar )
<b>Product Water Flow Rate</b>	
RO water ( @ 25°C )	10 and 20 L/hr
Ultrapure water ( Type I ) ( @ 25°C )	1.5 L/min
<b>Product Water Quality</b>	
RO water conductivity*	Typically < 20 $\mu$ S/cm
Ultrapure water resistivity ( @ 25°C )	18.2 M $\Omega$ ·cm
TOC*	< 10 ppb ( < 5 ppb with a dual wavelength UV lamp )
Particles in ultrapure water ( > 0.2 $\mu$ m )	< 1/ml ( with a 0.2 $\mu$ m final filter or terminal ultrafiltration cartridge )
Microorganisms	< 1 cfu/ml ( with a 0.2 $\mu$ m final filter or terminal ultrafiltration cartridge )
Pyrogens ( endotoxins )	< 0.001 Eu/ml ( with a terminal ultrafiltration cartridge )
<b>Dimensions</b>	
Length x Depth x Height	303 mm x 511 mm x 482 mm

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

## Ordering Information

Description	Catalogue Number
Direct-Pure Water System, UP 10	RD0P01000
Direct-Pure Water System, UP 10 UV	RD0P010UV
Direct-Pure Water System, UP 20	RD0P02000
Direct-Pure Water System, UP 20 UV	RD0P020UV
Consumables	Catalogue Number
RephiDuo H Pack Cartridge	RR300Q201
RephiDuo U Pack Cartridge	RR600Q201
RephiDuo U Pack Cartridge with a 0.2 $\mu$ m PES Capsule Filter	RRQ2F6SKT
185/254 nm Dual-wavelength UV Lamp	RAUV357B1
Reverse Osmosis Membrane with housing	RAR0100HG
30-liter PE Tank	RATANK030
60-liter PE Tank	RATANK060
Tank Sanitization Module	RAPRC0102
Tank Vent Filter	RATANKVN1
Leak Protector with Auto Water Shutoff Valve	RAPRC0111
Prefiltration Kit (10", 3-stage)	RW10311KT
Polypropylene Depth Filter, 10 Inches 1 $\mu$ m, 12/Pk	LABPA0112
Polypropylene Depth Filter, 10 Inches 10 $\mu$ m, 12/Pk	LABPA1012
Activated Carbon Cartridge, 10 Inches, 12/Pk	LABAC1012
Softening Cartridge, 10 Inches, 12/Pk	LABAT1012
200lph Water Softener System (Auto-regeneration, a complete set)	LAB0200AT

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### Rephile Bioscience, Ltd.

Toll Free: +1-855-Rephile (+1-855-737-4453)

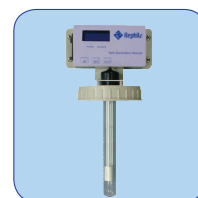
E-mail: info@rephile.com

## Optional Accessories



### Water Softener

- ◆ To prevent the RO membrane from scaling



### Tank Sanitization Module

- ◆ To inhibit growth of microbes inside the tank



### Leak Protector

- ◆ To shut off water supply to the system in case of unpredicted water leaks