

Direct-Pure[®] adept

Produce Type I ultrapure water and RO water on demand from tap water directly

The small foot print Direct-Pure adept system is an ideal choice for users who need up to 20 liters of ultrapure water or RO water per day. Quality of ultrapure product water meets or exceeds ASTM, CLSI, CAP, and ISO Type I water standards.

Features

- The compact system provides an easy way to produce ultrapure water or RO water on demand from tap water directly with no additional pre-treatment filters.
- The system is equipped with a safeguard RephiDuo P Pack cartridge and a dual-column RephiDuo U Pack ultrapurification cartridge to ensure optimum quality of the final product water.
- No external storage tank is required, which eliminates the risk of water degradation by contaminants from the container or the tubing.
- The fully automatic controlled and maintained system contains automatic cleaning cycles and self-maintenance functions for the RO membrane, which increases the lifetime and efficiency of the RO membranes as well as the cartridges.
- Automatic hourly system recirculation in the loop prevents bacterial growth and maintains water purity at all times.
- System status and key quality parameters are clearly displayed on large LCD screen for easy system performance monitoring.



Main Applications

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

- 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.

All in One
Space-saving
Cost-effective
Low Maintenance

System Setup

Direct-Pure adept



RephiDuo P Pack



RephiDuo U Pack Kit



Specifications

Direct-Pure adept	
Feed Water Requirements	
Tap water	Municipal water, TDS < 500 ppm (1000 µS/cm)
Operating temperature	5 - 45 °C
Feedwater pressure	15 - 90 psi (1 - 6 bar)
Product Water Flow Rate	
RO water (@25°C)	> 0.5 L/min
Ultrapure water (Type I) (@25°C)	> 0.5 L/min
Product Water Quality	
RO water conductivity (@25°C)	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 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	
Length x Depth x Height	30 cm × 51 cm × 48 cm

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

Ordering Information

Main system

Description	Voltage	Catalogue Number
Direct-Pure Water System, adept	230 V/50 Hz	RD0A0400E
	110 V/60 Hz	RD1A0400E
Direct-Pure Water System, adept UV	230 V/50 Hz	RD0A040UE
	110 V/60 Hz	RD1A040UE

Consumables

Description	Catalogue Number
RephiDuo P Pack Cartridge	RR300CP01
RephiDuo U Pack Cartridge	RR600Q201
RephiDuo U Pack Cartridge with a 0.2 µm PES Capsule Filter	RR600Q2KT
RephiDuo U Pack Cartridge (Low TOC)	RR600Q301
RephiDuo U Pack Cartridge with a 0.2 µm PES Capsule Filter (Low TOC)	RR600Q3KT
Reverse Osmosis Membrane with housing	RAR0015HG
185/254 nm Dual-wavelength UV Lamp	RAUV357B1

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Rephile Bioscience, Ltd.

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

E-mail: info@rephile.com

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