Direct-Pure® RO

Produce reverse osmosis (RO) laboratory-grade water from tap water directly

Features

- The fully automated control system contains pre-rinse, RO membrane fouling preventing flush, RO membrane 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.
- Inferior quality of RO permeate is automatically rejected until its quality meets the requirements, which ensures the water in the reservoir is always at optimal quality.
- Electrical and water compartments are completely segregated, thus safer to operate.
- User can set water dispensing time for easy water collection.
- RO product water can be dispensed from the water system directly.
- 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_2 scavenger to preserve pure water from the air contamination.
- RephiLe can provide full document support to meet user's GMP, GLP, FDA and other certification requirements.
- The system is CE and RoHS certified, manufactured in an ISO 9001:2015 certified manufacturing site.

Main Applications

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

- Manual cleaning and glassware rinsing
- Buffer preparation
- Glassware washers
- Humidifiers
- Water baths
- Aging tester
- Autoclave
- Laboratory animal feed

Low running costs
Easy maintenance

Accessories

RephiTEKT Prefiltration System

- To protect RO membrane from clogging to achieve an excellent system performance

PE Water Reservoir

- Designed to minimize the risk of bacteria growth and air-borne contamination during the storage

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

Specifications

	Direct-Pure RO
Feed Water Requirements	
Tap water	Municipal water, TDS < 1000 ppm (2000 μS/cm)
Operating temperature	5 - 45 ℃
Feedwater pressure	15 - 90 psi (1 - 6 bar)
Product Water Flow Rate	
RO water (@25℃)	10, 15, 20, 30, 50 L/hr
Product Water Quality	
RO water conductivity	Typically < 20 μS/cm
Monovalent ions removal	> 95%
Polyvalent ions removal	> 99%
Bacteria and particles removal	> 99%
Organics and pyrogens removal	> 99%
Dimensions	
Main system Length x Depth x Height	30 cm × 51 cm × 48 cm
Dispenser Diameter x Height	22 cm × 74 cm

Ordering Information

Description	Voltage	Catalogue Number
Direct-Pure Water System, RO 10	230 V/50 Hz	RD0R0100E
	110 V/60 Hz	RD1R0100E
Direct-Pure Water System, RO 15	230 V/50 Hz	RD0R0150E
	110 V/60 Hz	RD1R0150E
Direct-Pure Water System, RO 20	230 V/50 Hz	RD0R0200E
	110 V/60 Hz	RD1R0200E
Direct-Pure Water System, RO 30	230 V/50 Hz	RD0R0300E
	110 V/60 Hz	RD1R0300E
Direct-Pure Water System, RO 50	230 V/50 Hz	RD0R050BE
	110 V/60 Hz	RD1R050BE
Direct-Pure Water System, RO 10, with dispenser	230 V/50 Hz	RD0RP100E
	110 V/60 Hz	RD1RP100E
Direct-Pure Water System, RO 15, with dispenser	230 V/50 Hz	RD0RP150E
	110 V/60 Hz	RD1RP150E
Direct-Pure Water System, RO 20, with dispenser	230 V/50 Hz	RD0RP200E
	110 V/60 Hz	RD1RP200E
Direct-Pure Water System, RO 30, with dispenser	230 V/50 Hz	RD0RP300E
	110 V/60 Hz	RD1RP300E
Direct-Pure Water System, RO 50, with dispenser	230 V/50 Hz	RD0RP50BE
	110 V/60 Hz	RD1RP50BE

RephiLe provides complete water purification solutions

RephiLe not only supplies the lab with laboratory-grade water systems, but also offers total water purification solutions for pretreatment, storage and production of ultrapure water.

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