

Large Direct-Pure[®] RO

High-flow water systems designed to produce reverse osmosis (RO) water from tap water directly

Flow rates range from 50 to 300 liters per hour. It is ideal for users requiring 600 to 3000 liters of RO water per day.

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.
- Product water can be dispensed from the water system directly.
- Electrical and water compartments are completely segregated, thus safer to operate.
- Rephile can provide full document support to meet user's GMP, GLP, FDA and other certification requirements.
- The system is CE and CoHS 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



Optimized running costs
Minimal maintenance

System Setup



Specifications

Direct-Pure RO	
Feed Water Requirements	
Tap water	Municipal water, TDS <1000 ppm (2000 µS/cm)
Operating temperature	5 - 45 °C
Feedwater pressure	30 - 90 psi (2 - 6 bar)
Product Water Flow Rate	
RO water (@25°C)	Typically 50, 100 and 300 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	
Length x Depth x Height	40 cm x 49 cm x 110 cm

Ordering Information

Main System

Description	Voltage	Catalogue Number
Direct-Pure Water System, RO 50	230 V/50 Hz	RD0R0500E
	110 V/60 Hz	RD1R0500E
Direct-Pure Water System, RO 150	230 V/50 Hz	RD0R01H0E
	110 V/60 Hz	RD1R01H0E
Direct-Pure Water System, RO 300	230 V/50 Hz	RD0R03H0E
	110 V/60 Hz	RD1R03H0E

Consumables

Consumables	Catalogue Number
Reverse Osmosis Membrane, for RO 50	RAR050001
Reverse Osmosis Membrane, for RO 150 and 300	RAR01H001
Pure Water Tank 350L, with pump support	RATANKP3H
Pure Water Tank 350L, without pump support	RATANK03H
Tank Sanitization Module	RAPRC0106
Tank Vent Filter	RATANKVL1
Distribution Controller	RAPRC0101C
Prefiltration Kit (20", 2-stage)	RW20211KT
Polypropylene Depth Filter, 20 Inches, 1 µm, 12/Pk	LABP20112
Polypropylene Depth Filter, 20 Inches, 10 µm, 12/Pk	LABP21012
Activated Carbon Cartridge, 20 Inches, 12/Pk	LABAC2012
Softening Cartridge, 20 Inches, 12/Pk	LABAT2012
500lph Water Softener System (Auto-regeneration, a complete set)	LAB0500AT
1000lph Water Softener System (Auto-regeneration, a complete set)	LAB1000AT
500lph Activated Carbon Filter (Auto-backwashing)	LAB0500AC
1000lph Activated Carbon Filter (Auto-backwashing)	LAB1000AC

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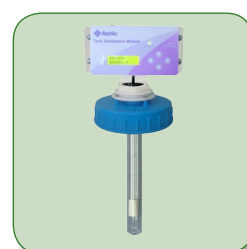
E-mail: info@rephile.com

Optional Accessories



Water Softener

- ◆ To prevent the RO membrane from scaling



Tank Sanitization Module

- ◆ To inhibit growth of microbes inside the tank



Distribution Controller

- ◆ Programmable control of the delivery of purified water from tank to points of use

Literature: RFPRI101409