



# Model RODI-T2 and RODI-T2-H RO+Type II

## Features & Benefits

- ◆ Meets UL, CSA, and CE Mark Specs.
- ◆ Produces 2-15 Megohm-cm DI water from ordinary tap water.
- ◆ Includes purity monitor with flashing red LED alarm.
- ◆ Price includes built-in sediment and activated carbon prefilter cartridge.
- ◆ Prefilter cartridge and DI modules can be replaced in less than 5-minutes.
- ◆ Power supply accepts 100-240 VAC, 50/60 Hz, at 2.5 Amps.
- ◆ Safe, low-voltage (12 VDC) internal operation.
- ◆ User installable & serviceable.
- ◆ Made in the USA.

## Optional Blending Valve Upgrade

### RO-T2BV

Includes a built in blending valve and additional conductivity sensor. This upgrade allows the user to manually adjust the purity of the product water to < 1 megohm-cm by mixing RO water with DI water. This is ideal for feed water to humidity chambers and glassware washers that could be damaged by aggressive, high resistivity DI water.

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## Product Availability

**AQUA SOLUTIONS** Model RODI-T2 and RODI-T2-H Reverse Osmosis plus Type 2 DI Systems dispense 2-15 Megohm-cm Type II or Type III Reagent Grade DI water at a flow rate of 4-5 LPM.



The systems include built-in 10 or 20 LPH reverse osmosis (RO) pretreatment to reduce operating costs by as much as 90%, while allowing the system to run on virtually any quality potable water. The RO purified water is stored in a pressurized storage tank.

Model RODI-T2 includes 1 installed plus 1 spare 2613DI module. The High-Capacity Model RODI-T2-H includes 2 installed plus 1 spare 2618DI module.

A variety of dispensing options are available, including Teflon Remote Dispensers, Gooseneck Faucets, and various outlet valves.

When exhausted, the DI modules are returned to the factory where they are refilled with ion exchange ("DI") resin. The combination sediment and activated carbon prefilter cartridge and DI modules can be replaced in less than 5-minutes.

The RODI-T2 and RODI-T2-H RO+DI systems are self-contained units, with the cabinet measuring just 20" wide by 20" high by 12" deep. The systems require tap water, a drain, and a grounded 100-240 VAC, 50-60 Hz electrical outlet in order to operate. They can be bench, shelf or wall-mounted up to 20 feet away from the points of use.

An LCD purity monitor provides a continuous readout of the purified water quality in micro-seimens/cm. The monitor's red LED flashes whenever the water quality falls below 0.5 MicroSeimens/cm (2 Megohm-cm). The monitor can be located anywhere within ~6 feet of the system.

During operation, a quiet, 12 VDC pump continuously circulates purified water through the DI modules and purity monitor on its way out to the points of use, and back into the system. The quality of the purified water is maximized by this recirculation process, *which does not diminish the capacity of the DI modules.*

***These systems are ideally suited for providing high-quality DI water to laboratory analyzers at competitive prices!***

# Model RODI-T2 and RODI-T2-H RO+Type II or Type III DI Systems



## Model Number      General Description

- RODI-T2** ..... **AQUA SOLUTIONS** model *RODI-T2, 10-LPH Reverse Osmosis plus Type 2 DI System* for operation on *ordinary tap water* containing up to 1,000 ppm of TDS (total dissolved solids). The 12 VDC system accepts 100-240 VAC, 50-60 Hz input power at <2.5 Amps. The system includes a CC1050 high-capacity Activated Carbon/Sediment prefilter cartridge and two 2613DI Type II DI Modules (1 installed plus 1 spare).
- RODI-T2-H**..... **AQUA SOLUTIONS** model *RODI-T2-H, High-Capacity 20-LPH Reverse Osmosis plus Type 2 DI System* for operation on *ordinary tap water* containing up to 1,000 ppm of TDS (total dissolved solids). The 12 VDC system accepts 100-240 VAC, 50-60 Hz input power at <2.5 Amps. The system includes a CC1050 high-capacity Activated Carbon/Sediment prefilter cartridge, and three 2618DI Type II DI Modules (2 installed plus 1 spare ).

The systems include one or two reverse osmosis (RO) cartridges, which are replaced as required. The RO cartridge has an estimated service life of 2-3 years under normal usage, provided that the activated carbon prefilter cartridge is replaced whenever the DI modules are replaced. The systems are designed to provide a source of Type 2, Type 3, or better deionized water to one or more points-of-use and/or laboratory analyzers.

### Optional Accessories

- ROC-1020CU**..... *Optional* Second RO Cartridge - Increases RO production to 20 LPH (Model RODI-T2 only)
- 2700R** ..... *Optional* Recirculating Teflon Remote Dispenser with 0.22 micron (absolute) Final Filter Capsule.
- 2700N** ..... *Optional* Non-Recirculating Teflon Remote Dispenser with 0.22 micron (absolute) Final Filter Capsule.
- 2701-DISP** ..... *Optional* Teflon Remote Spray Gun for Spraying or Rinsing.
- 2614F** ..... *Optional* High-Quality, Polypro-Lined Gooseneck Faucet.
- RODI2-130TU-042** ... *Optional* Upgrade from 42 Liter RO Storage Tank to 130 Liter RO Storage Tank.
- RODI2-200TU-042** ... *Optional* Upgrade from 42 Liter RO Storage Tank to 200 Liter RO Storage Tank.
- UV2006S**..... *Optional* Ultraviolet (UV) Sterilizer.

### Overall System Specifications



Cabinet dimensions	..... 20" (508 mm) Wide x 20" (508 mm) High x 12" (305 mm) Deep
Operating weight	..... 75 - 100 lbs (34 - 45 kg)
Internal system power	..... 12 VDC @ 2.5 Amps from external switching power supply
External switching power supply	..... accepts 100-240 VAC @ 50/60 Hz
Minimum/maximum tap water inlet pressure	..... 10/100 PSIG (0.7/6.7BAR)
Total shipping weight	..... 100-150 lbs (45-68 kg)
Required tap water inlet connection	..... 1/4" or 3/8" NPT



### RO System Specifications

Nominal RO flow rate (production)	..... 10 or 20 Liters/hour
Maximum allowable TDS in feed water	..... 1,000 PPM
RO recovery rate	..... 25-33%
RO membrane type	..... TFC (thin film composite)
RO product & reject flowmeters	..... included
Activated carbon prefilter part #	..... CC1050
RO storage tank capacity	..... 30 or 42 Liters Std
RO storage tank weight (full)	..... 100-125 lbs (45-57 kg)
42-Liter tank size	..... 15" (381 mm) dia by 25" (508 mm) high (an optional 130 or 200 Liter RO storage tank is available)

### Type II DI System and Purified Water Specifications

Flow rate	..... 4-5 Liters/minute
Ion Exchange (DI) capacity	.....
RODI-T2	..... ~3,000 grains as CaCO <sub>3</sub>
RODI-T2-H	..... ~6,000 grains as CaCO <sub>3</sub>
Conductivity	..... 0.5-0.067 MicroSeimens/cm
Resistivity	..... 2-15 Megohm-cm
Alarm Set point	..... Below 0.5 MicroSeimens/cm
Bacteria	..... <1,000 cfu/ml ..... <1 cfu/ml with 0.22 micron Final Filter
TOC	..... <50 PPB
0.22 micron final filter capsule	..... optional
Recirculation	..... continuous