(AQUA) SOLUTIONS

Type I Compact - Combination Reverse Osmosis + Type I DI Systems

Features and Benefits

- Produces 2 Liters/min 18.2 Meg Type I water
- Analytical, biological, ultra-low TOC models
- Costs less than individual RO & DI systems
- System runs on 12 VDC internal operation
- Exceeds ASTM, CAP, CLSI & USP Specs
- Accepts 100-240 VAC, 50/60 Hz power
- Certified by CSA for the US & Canada
- Can be bench, shelf or wall-mounted
- Meets latest USP water specifications
- CE marked for export to Europe, Etc
- Remote dispenser included in price
- 2-Year warranty (most Countries)
- User installable and serviceable
- 0.2 micron final filter capsule
- DI modules can be recycled
- Complete instrumentation
- Fully automatic operation
- Continuous recirculation
- Made in the USA

Options and Upgrades

- Add a UV Sterilizer
- Provide RO or Type II/III DI water
- Upgrade RO capacity to 20 Liters/hour
- Upgrade RO storage tank to 130-200 Liters

AQUA SOLUTIONS, INC.

8 Old Burnt Mountain Road Jasper, GA 30143 USA Phones:

706-692-9200

800-458-2021

Fax: 706-692-9203 E-mail: mail@AquaA.com www.AguaA.com Internet:



Product Availability

AQUA SOLUTIONS Compact Reverse Osmosis (RO) plus Type I DI Systems combine a 10 or 20 Liter/hour Reverse Osmosis Pretreatment System with a 2-Liter/ minute Analytical, Biological, Ultralow TOC Analytical, or Ultra-Low TOC Biological grade Type I DI system, all enclosed in a single cabinet. Analytical and biological models are available with an optional built-in UV sterilizer.



These systems produce purified water that meets or exceeds ASTM, CAP, CLSI, and USP specifications for Type I reagent grade water.

The Compact RO+DI System should be considered whenever:

- ♦ A Central DI System is either not available, or not planned, at any given site, and/or
- Incoming tap water contains more than 170 parts per million (PPM) of total dissolved solids, and/or
- Type I purified water usage exceeds 20 liters per day, or 100 liters per week.

Under these conditions, the RO+DI system can produce better quality water at lower cost than systems without built-in RO pretreatment.

This system is ideally suited for applications where the existing central RO, DI or distillation pretreatment system is unreliable, overloaded (with regard to capacity), or nonexistent in a particular location. It is also suitable for applications where either space or funding limitations preclude purchasing separate RO and Type I DI systems.

The RO portion of the system features fully automatic operation. It includes an activated carbon prefilter, product and reject flow meters, one or two TFC (thin film composite) high-capacity RO cartridges, and an external 30, 42, 130, or 200 Liter pressurized tank for storing the RO purified water for later use by the DI system.

The Type I DI portion of the system features a high-purity TOC reduction and DI polishing module, continuous recirculation, a digital resistivity monitor that meets USP specifications, a remote dispenser, and a 0.2 micron (absolute) final filter capsule.

AQUA SOLUTIONS Compact Reverse Osmosis plus Type I Reagent Grade DI Systems offer features and benefits not found on many other systems. And, they are very competitively priced!

Type I Combination Reverse Osmosis + Type I DI Systems



<u>Model Number</u>	General Description	
RODI-C-12A	. Compact, combination Reverse Osmosis plus Type I Analytical Grade DI System for operation on any quality tap water. Requires Purification Kit Number 2613M1T-A (not included in system price). Kit includes high purity TOC reduction DI module and a final filter capsule.	
RODI-C-12AU	. Identical to Model RODI-C-12A above, except it includes a built-in Ultraviolet (UV) Sterilizer to prevent the growth of microorganisms within the system.	
RODI-C-12AL	. Compact, combination Reverse Osmosis plus Type I <i>Ultra-low TOC Analytical Grade</i> DI System for operation on any quality tap water. The system includes a <i>built-in, dual-wavelength UV</i> Oxidizer/Sterilizer to reduce TOC to the lowest possible levels, while preventing the growth of microorganisms within the system. <i>Requires Purification Kit Number 2613M1L-A</i> (not included in system price). Kit includes a high purity TOC reduction DI module and a final filter capsule.	
Note:	. Models RODI-C-12B, 12BU, and 12BL (described below) include a built-in Ultrafilter to provide a 4-6 log reduction of pyrogen, endotoxin, DNase, and RNase, resulting in Type I water that is pyrogen/endotoxin free and has no DNase or RNase activity.	
RODI-C-12B	. Compact, combination Reverse Osmosis plus Type I <i>Biological Grade</i> DI System for operation on any quality tap water. <i>Requires Purification Kit Number 2613M1T-A</i> (not included in system price). Kit includes high purity TOC reduction DI module, and a final filter capsule.	
RODI-C-12BU	. Identical to Model RODI-C-12B above, except it includes a built-in Ultraviolet (UV) Sterilizer to prevent the growth of microorganisms within the system.	
RODI-C-12BL	. Compact, combination Reverse Osmosis plus Type I <i>Ultra-low TOC Biological Grade</i> DI System for operation on tap water. The system includes both a <i>built-in Ultrafilter</i> to provide a 4-6 log reduction of pyrogen, endotoxin, DNase, and RNase, and a <i>built-in, dual-wavelength UV Oxidizer/Sterilizer</i> to reduce TOC to the lowest possible levels, while preventing the growth of microorganisms within the system. <i>Requires Purification Kit Number 2613M1L-A</i> (not included in system price). Kit includes a high purity TOC reduction DI module and a final filter capsule.	
Overall System Specifications		



Cabinet dimensions	20" (508 mm) Wide x 20" (508 mm) High x 12" (305 mm) Deep
Operating weight	
Internal system power	
External switching power supply	accepts 100-240 VAC @ 50/60 Hz
AL and BL Models	require dual 100-240 VAC @ 50/60 Hz outlet
Minimum/maximum tap water inlet p	ressure
Total shipping weight	
Tap water inlet connection	



RO System Specifications

Type I DI System and Purified Water Specifications

Ion Exchange (DI) capacity	18.2 Megohm-cm
Bacteria	
TOC (models AL and BL)	
TOC (models A, AU, B & BU)	
Endotoxin	
RNase	•
DNase	
Flow rate	•
0.2 micron final filter capsule	
Recirculation	continuous