

## Features and Benefits

- ◆ Produces 18 Megohm-cm Type I water
- ◆ Exceeds ASTM, CAP, CLSI & USP Specs
- ◆ Accepts 100-240 VAC, 50/60 Hz power
- ◆ System runs on 12 VDC internal power
- ◆ Certified by CSA for the US & Canada
- ◆ Can be bench, shelf or wall-mounted
- ◆ 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
- ◆ Meets USP specifications
- ◆ Fully automatic operation
- ◆ Continuous recirculation
- ◆ Made in the USA



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**AQUA SOLUTIONS** Type I Analytical Grade DI Systems produce Type I reagent grade water that meets or exceeds ASTM, CAP, CLSI, and USP specifications.

These systems are recommended for laboratory applications that require basic Type I reagent grade water.

**Chemical Applications** include AA, GC, HPLC, IC, ICP, IR, MS, heavy or trace metals, environmental testing, ammonia, chlorine, COD, TOC, TCLP, VOC and glassware washing.

**Biological Applications** include BOD, sterility testing and media preparation (where endotoxin/pyrogen levels are NOT critical).

**AQUA SOLUTIONS** Type I DI systems dispense purified water at the rate of 2-Liters/minute. Higher flow rate systems (8-12 Liters/minute) are available.

Analytical Grade Type I systems can be purchased with or without an optional **built-in ultraviolet (UV) sterilizer**, to prevent the growth of microorganisms within the system. The UV includes an LED display and audible alarms to monitor the performance of the UV lamp.

**AQUA SOLUTIONS** analytical grade systems are designed to operate on **ordinary tap water**, or water that has been pretreated via reverse osmosis, distillation, or deionization by a central or point-of-use pretreatment system.

**Note:** If the incoming tap water feed contains more than 170-250 ppm of TDS (total dissolved solids), and/or the average daily purified water usage exceeds 20 Liters/day, reverse osmosis (RO) pretreatment should be considered (see next paragraph).

**AQUA SOLUTIONS** Type I Analytical Grade Systems can also be purchased with a **built-in 10 or 20 Liter/hour RO pretreatment system**, all in a single cabinet measuring just 20" (508 mm) wide by 20" (508 mm) high by 12" (305 mm) deep. See page 2 for details.

If more RO capacity is required to feed multiple Type I or Type II DI systems, or other applications, **AQUA SOLUTIONS** RO systems are available in 10, 20, 30, 60 Liter/hour and larger configurations.

**AQUA SOLUTIONS** Type I Analytical Grade DI Systems offer features, benefits, and higher capacities that are not found on many other systems. **And, they are very competitively priced!**



# Type I Analytical Grade DI Systems General Description & Specifications



## Model Number      General Description - Type I DI Systems

**2121A** ..... Type I *Analytical Grade* DI System for operation on water that has been pretreated via reverse osmosis, distillation or deionization by a central or point-of-use pretreatment system, and contains less than 20 ppm of TDS (total dissolved solids).

*Requires Purification Kit Number 2613M1T* (not included in system price). Kit includes activated carbon prefilter capsule, high purity TOC reduction DI module, and final filter capsule.

**2121AU** ..... Identical to Model 2121A above, except it includes a *built-in Ultraviolet (UV) Sterilizer* to prevent the growth of microorganisms within the system.

**2122A** ..... Type I *Analytical Grade* DI System for operation on *ordinary tap water* containing up to 250 ppm of TDS (total dissolved solids).

*Requires Purification Kit Number 2613M2T* (not included in system price). Kit includes activated carbon prefilter capsule, high capacity DI pretreatment module, high purity TOC reduction DI module, and final filter capsule.

**2122AU** ..... Identical to Model 2122A above, except it includes a *built-in Ultraviolet (UV) Sterilizer* to prevent the growth of microorganisms within the system.

*Upgradeability*      Any of the above systems can be field upgraded or modified to become any other Type I system.

## Model Number      General Description - Combination Reverse Osmosis plus Type I DI Systems

**RODI-C-12A** ..... Combination Reverse Osmosis plus Type I *Analytical Grade* DI System.

*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.

*More information*      For *Ultra-Low TOC Analytical Grade Systems*, request brochure #: T1-AL.  
 For *Biological Grade Systems*, request brochure #: T1-B.  
 For *Ultra-Low TOC Biological Grade Systems*, request brochure #: T1-BL.  
 For *Combination Reverse Osmosis plus Type I DI Systems*, request brochure #: RODI-C.

### DI System and Purified Water Specifications

DI capacity 2121A/AU & RODI-C 12A/AU ..... \*2,000

DI capacity 2122A/AU ..... \*4,000

\*(grains of ion exchange capacity as CaCO<sub>3</sub>)

Resistivity ..... 18.2 Megohm-cm

TOC ..... 10-50 PPB

Bacteria ..... <1 cfu/ml

Continuous flow rate ..... 2-Liters/minute

Cabinet depth ..... 12" (305 mm)

Cabinet width ..... 20" (508 mm)

Cabinet height ..... 20" (508 mm)

External power supply input ..... 100-240 VAC, 50/60 Hz

Internal power .... 12 VDC @ 2.5 Amps from external supply

Minimum inlet pressure ..... 35 PSIG (2.3 Bar)

Maximum inlet pressure ..... 100 PSIG (6.7 Bar)

Shipping weight ..... 40-55 lbs (18-25 kg)

Operating weight ..... 55-70 lbs (25-32 kg)

Inlet connection ..... 1/4" or 3/8" NPT

