

Type I Analytical Grade DI Systems



Features and Benefits

- ◆ Produces 18 Megohm-cm Type I water
- ◆ Exceeds ASTM, CAP, NCCLS & 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
- ◆ 0.1 micron final filter capsule
- ◆ DI modules can be recycled
- ◆ Complete instrumentation
- ◆ Meets USP specifications
- ◆ Fully automatic operation
- ◆ Continuous recirculation
- ◆ Made in the USA

Product Availability

AQUA SOLUTIONS Type I Analytical Grade DI Systems produce Type I reagent grade water that meets or exceeds ASTM, CAP, NCCLS, 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 2-3 Liters/minute. Higher flow rate systems (6-12 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!**



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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 ₃)	
Resistivity	18.2 Megohm-cm
TOC	10-50 PPB
Bacteria	<1 cfu/ml
Continuous flow rate	2-3 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

