

## High Flow DI Systems Type I Biological Grade

### Features & Benefits

- ◆ 18.2 megohm-cm water
- ◆ 8-12-Liters/minute flow rate
- ◆ Continuous recirculation
- ◆ Complete instrumentation
- ◆ Bench, shelf or wall-mount (cabinet only)
- ◆ Floor-mounted DI modules
- ◆ DI modules can be recycled
- ◆ PTFE dispenser with 0.22-Micron high capacity final filter
- ◆ User installable & serviceable
- ◆ Highest capacities DI Modules
- ◆ Built-in activated carbon prefilter
- ◆ One year warranty
- ◆ Made in the USA

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### Product Availability

**AQUA SOLUTIONS** High Flow Type I Biological Grade DI Systems produce Type I reagent grade water that exceeds ASTM, CAP, CLSI, and USP specifications at a flow rate of 8-12 LPM. These systems are recommended for applications requiring Type I pyrogen/endotoxin free water, and/or Type I water with no RNase/DNase activity.



**Chemical Applications** include AA, GC, HPLC, IC, ICP, IR, MS, heavy/trace metals, environmental testing and COD.

**Biological Applications** include endotoxin/pyrogen sensitive media preparation and tissue culture, in vitro and in vivo fertilization, MAB production, organ transplant, DNase testing, and immunological applications.

A **5,000 molecular weight cutoff ultrafilter** provides a 4-6 log reduction of pyrogen, endotoxin, DNase, and RNase. The system can be purchased with an optional **built-in ultraviolet (UV) sterilizer**, which can prevent the growth of microorganisms within the system. The **Ultra-Low TOC Biological Grade** version includes a **UV oxidizer** to reduce TOC, DNase and RNase to the lowest possible levels. The UV includes an LED display with audible warnings to monitor the performance of the UV lamp.

**AQUA SOLUTIONS** biological 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. If the incoming tap water feed contains more than 170-ppm of TDS (total dissolved solids), and/or the average weekly purified water usage exceeds 40-60 liters/week, reverse osmosis (RO) pretreatment should be considered.

Our High Capacity Reverse Osmosis Plus DI (RODI) Systems are available in 1 and 2 Gallon/minute configurations. They are uniquely designed for ease of installation, operation, and maintenance. The system includes a RO system and a Type I high flow DI system on a single welded aluminum frame.

**AQUA SOLUTIONS** Type I High Flow Biological 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 Biological Grade High Flow DI Systems



## Model Number      General Description

**2035B** ..... **AQUA SOLUTIONS** *Type I High Flow / High Capacity Biological 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 total dissolved solids

**2036B** ..... **AQUA SOLUTIONS** *Type I High Flow / High Capacity Biological Grade DI System* for operation on ordinary tap water containing up to 170 ppm of total dissolved solids. Note: If the feed water contains more than 170 ppm TDS, it can be pretreated with an **AQUA SOLUTIONS** Reverse Osmosis or Type II DI system.

**2035/6BU** ..... Includes a built-in UV Sterilizer to prevent the growth of microorganisms within the system.

*Models 2035B & 2035BU require Purification Kit Number 2635M1T* (not included in system price). Kit includes a sediment pre-filter, a high purity TOC reduction DI module and a high capacity 0.2 micron final filter capsule.

*Models 2036B & 2036BU require Purification Kit Number 2635M2T* (not included in system price). Kit includes an activated carbon prefilter cartridge, a high capacity DI pretreatment module, a high purity TOC reduction DI module, and a high capacity 0.2 micron final filter capsule.

## Ultra-Low TOC

**2035BL & 2036BL** .... Includes a built-in dual wavelength UV Oxidizer/Sterilizer to reduce TOC levels to less than 10-PPB and prevent the growth of microorganisms within the system.

*Model 2035BL requires Purification Kit Number 2635M1L* (not included in system price) for operation on pretreated water containing less than 20 ppm of total dissolved solids. Kit includes a sediment pre-filter, a high purity TOC reduction DI module and a high capacity 0.2 micron final filter capsule.

*Model 2036BL requires Purification Kit Number 2635M2L* (not included in system price) for operation on tap water containing up to 170 ppm of total dissolved solids. Kit includes an activated carbon prefilter cartridge, two high capacity high purity TOC reduction DI modules, and a high capacity 0.2-Micron final filter capsule.

An **AQUA SOLUTIONS** Reverse Osmosis or Type II DI Pretreatment System can be installed upstream of the Type I System at any time, to increase capacity and/or reduce operating costs. The system’s DI Module(s) are approximately 37” tall by 7” in diameter, and are located external to and below the system cabinet (i.e., on the floor).

## Specifications

Cabinet Depth .....	12”	Shipping weight .....	75-85 lbs
Cabinet Width .....	20”	Operating weight .....	85-95 lbs
Cabinet Height .....	20”	Continuous flow rate .....	8-12 Liters/minute
Amps @ 110/220 VAC .....	< 5.0	Inlet connection .....	1/2” NPT
Minimum inlet pressure .....	45 psi	DI capacity 2035 Systems .....	*6,000 grains
Maximum inlet pressure .....	100 psi	DI capacity 2036 Systems .....	*12,000 grains

\*(ion exchange capacity as CaCO to a 0.02-Megohm end point)