

# System & Installation Specifications

## Type II Reagent Grade DI Systems



**Models: 2618S1, 2618S2, 2635S1, 2635S2, 2635S2DW & 2635S2DW11**

- ❑ The system shall produce purified water that meets ASTM, CAP and CLSI specifications for Type II and/or Type III reagent grade water.
- ❑ The system shall be capable of operating on ordinary tap water, or water that has been pretreated via reverse osmosis.
- ❑ The system shall have an output rate of up to:
  - 5 liters/minute for models 2618S1 & 2618S2
  - 6 liters/minute for models 2635S1 & 2635S2
  - 20 liters/minute for model 2635S2DW-11
  - 40 liters/minute for model 2635S2DW.
- ❑ Each DI tank shall have an ion exchange capacity (measured in grains as  $\text{CaCO}_3$ ) as follows:
  - 3,000 grains for model 2618DI
  - 6,000 grains for model 2635DI
- ❑ The DI tanks shall be constructed of high density polyethylene and virgin polypropylene materials, and shall not contain any PVC components.
- ❑ The system shall include an inlet shutoff valve.
- ❑ The system shall include a 10-inch activated carbon prefilter assembly, complete with a 10-inch 3-micron high capacity activated carbon prefilter cartridge.
- ❑ The system shall include a purity sensor that displays a Green LED when water quality is  $>2$ -megohm-cm and a Red LED when it's time to change DI Modules.
- ❑ The system's DI tanks shall be equipped with quick-disconnect snap-in fittings.
- ❑ The system shall include a pressure regulator and pressure gauge.
- ❑ The system's purchase price shall include a One Year Warranty.
- ❑ The system shall be assembled in the U.S.A.



**Model: 2618S2**

See other side for installation and start-up information, and system dimensions.

### AQUA SOLUTIONS, INC.

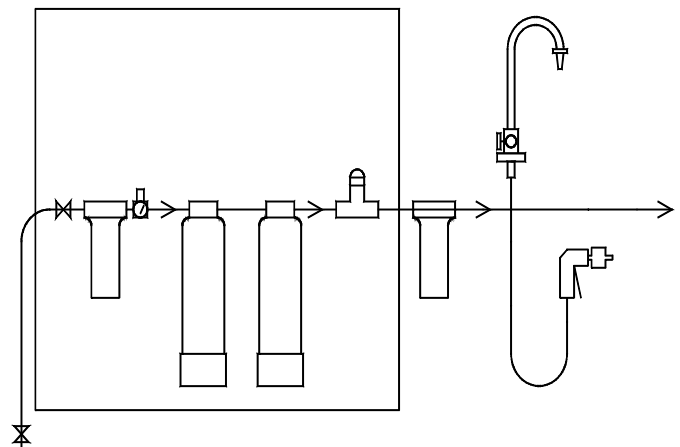
8 Old Burnt Mountain Road  
Jasper, GA 30143 USA

Phones: 706-692-9200  
800-458-2021

Fax: 706-692-9203

E-mail: [mail@AquaA.com](mailto:mail@AquaA.com)

Internet: [www.AquaA.com](http://www.AquaA.com)



## Installation and Start-up of AQUA SOLUTIONS' Type II DI Systems

The system requires a source of incoming feed water at 25-50 psi from a user-supplied shutoff valve located within 15' of the system, plus one or more grounded 110 VAC electrical outlets within 5' of the system.

- a. Install a 1/4", 3/8", or 1/2" NPT female shut off valve on an appropriate water supply line. Install a 1/4", 3/8", or 1/2" NPT male by 3/8" tube fitting (all 3 types are supplied with the system) on the female shut off valve, using Teflon tape on threads.
- b. Determine a suitable location on a nearby wall for the prefilter assembly, such that the bottom of the filter bowl can drop down 4 to 6" when it is unscrewed to replace the prefilter cartridge. Note that the prefilter assembly measures approximately 6" in diameter by 12" tall, and includes a wall-mounting bracket. Attach the prefilter assembly mounting bracket to the wall.
- c. Install 3/8" OD blue polyethylene tubing (25' supplied with system - cut to required length) from valved water source to water inlet fitting on left side of prefilter housing. For neater installation, use the included 90 ° tubing bend clips here and in steps g, j, k & l.
- d. Locate a suitable space on the floor for the DI tank(s). Note that 2618DI tanks measure approximately 7" in diameter by 20" tall, and 2635DI tanks measure approximately 7" in diameter by 37" tall.
- e. Install 3/8" OD blue polyethylene tubing from water outlet fitting on right side of prefilter housing pressure regulator to the first DI tank's female quick disconnect inlet fitting, using a male quick disconnect inlet fitting supplied with system. Plug the male inlet fitting into the corresponding female quick disconnect fitting on the DI tank.

<< NOTE >> THE DIRECTION OF FLOW IS ALWAYS OUT OF THE MALE FITTING INTO THE FEMALE FITTING.

- f. On models 2618S2, 2635S2 and 2635S2DW and 2635S2DW-11 ONLY, plug the pre-assembled blue jumper tube into the quick disconnect male outlet fitting of the first DI tank and into the quick disconnect female inlet fitting of the second DI tank.
- g. Determine a suitable location for the purity monitor light assembly so that it is clearly visible at all times, and attach it to a suitable wall using the included bracket and a wood screw, anchor bolt, or toggle bolt, depending on the composition of the wall. Note that the light assembly measures approximately 5" wide by 5" tall by 2" deep.
- h. Install 3/8" OD blue polyethylene tubing from the last DI tank's male quick disconnect outlet fitting using a female quick disconnect fitting supplied with system to the inlet fitting on the purity monitor light assembly.
- i. On systems that include a DI faucet, install 3/8" OD blue polyethylene tubing from the purity monitor light assembly to the inlet fitting on the DI faucet.
- j. On systems that include a remote dispenser or DI spray gun, install 3/8" OD blue polyethylene tubing from the remaining fitting on the purity monitor light assembly to the general area where the dispenser or gun will be used. Then, attach a 3/8" by 1/4" reducer fitting to the 3/8" blue tubing and attach 1/4" blue tubing to this fitting and run it to the inlet fitting on the dispenser or gun.
- k. If more than one outlet has been purchased, 3/8" tees were provided to connect 3/8" tubing to the various outlets.
- l. Carefully unscrew the filter bowl on the inlet prefilter housing, and install the 10" prefilter cartridge. Screw the filter bowl back on, making sure that O-ring is in proper position.
- m. Screw the final filter capsule into outlet of remote dispenser (if so equipped), being careful not to cross thread it.
- n. On models 2635S2DW and 2635S2DW-11 ONLY, refer to the flow schematic and install 3/8" OD blue polyethylene tubing from the remaining fitting on the purity monitor light to the top white inlet fitting located next to the pressure gauge on the storage tank valve tree. Then, install 1/4" OD red polyethylene tubing from the horizontal white drain valve on the storage tank to a drain.

Note that the 42 liter storage tank on model 2635S2DW-11 measures approximately 15" in diameter by 25" tall and can be floor, shelf or bench mounted. It weighs 125 lbs when full. The 130 liter storage tank on model 2635S2DW measures approximately 22" in diameter by 36" tall, and MUST be floor mounted due to its weight and size (375 lbs when full).

- o. The main storage tank outlet is the bottom 3/4" NPT valve on the tank valve tree. From this valve, install the appropriate piping and/or high pressure tubing to the glassware washer or other equipment.
- p. Follow the detailed start-up instructions in the Operating Manual. Call (800) 458-2021 with technical questions or comments.