

Model H-01-C Type 2 DI System



Designed for Small Hydrogen Generators

Features & Benefits

- ◆ *Meets UL, CSA, and CE Mark Specs.*
- ◆ *Produces 2+ Megohm-cm DI water from ordinary tap water.*
- ◆ *Includes purity monitor with flashing red LED alarm.*
- ◆ *Price includes a spare set of replacement cartridges.*
- ◆ *System recirculates water continuously, ensuring maximum quality at all times.*
- ◆ *The system includes a built-in activated carbon/sediment prefilter cartridge.*
- ◆ *Prefilter and DI cartridges can be replaced less than 5-minutes.*
- ◆ *Accepts 100-240 VAC, 50/60 Hz input power at <2 Amps.*
- ◆ *Safe, quiet, low voltage (12 VDC) internal operation.*
- ◆ *User installable & serviceable.*
- ◆ *Made in the USA.*



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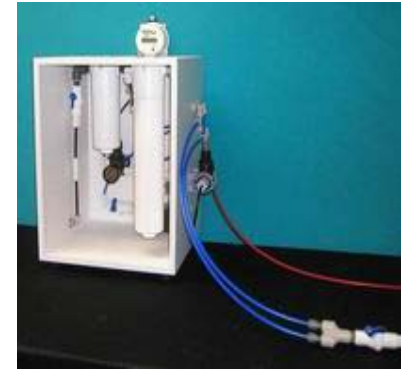
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Product Availability

AQUA SOLUTIONS Model H-01-C Type II DI System is specifically designed to support small hydrogen generators.

The *Model H-01-C* is a self-contained unit, with the system cabinet measuring just 12" wide by 18" high by 12" deep. It requires a source of ordinary tap water or pretreated water, and 100/240 VAC, 50/60 Hz electrical power in order to operate.



The system can be bench or shelf-mounted up to 8 feet away from the hydrogen generator. For the user's convenience, the included purity monitor can be located up to 6 feet away from the system.

In order to accommodate a wide variety of water qualities, the system includes a built-in activated carbon/sediment prefilter cartridge.

Incoming feed water is prefiltered via an activated carbon prefilter cartridge before entering into a quiet, 12 VDC recirculation pump via a built-in pressure regulator and gauge. The pump continuously circulates water through the DI cartridge and purity monitor on its way out to the hydrogen generator, and back into the system. The quality of the purified water is maximized by this recirculation process, *which does not diminish the capacity of the DI cartridge.*

A temperature-compensated purity monitor provides a continuous readout of the purified water quality on its LCD display. When the water quality falls below the setpoint, a red LED flashes on and off to signal that it is time to replace the activated carbon prefilter and DI cartridges with the included spares.

The system price includes one installed plus one spare Purification Kit. The kit includes one prefilter cartridge plus one DI cartridge.

The cartridges can be replaced in less than 5-minutes, without disrupting the operation of the hydrogen generator.

After installing the spare prefilter and DI cartridges, a replacement purification kit should immediately be ordered and kept in stock to eliminate down-time on the hydrogen generator.

Model H-01-C

Type 2 DI System

Designed for Small Hydrogen Generators



Model No. General Description

H-01-C **AQUA SOLUTIONS** model H-01-C Type 2 DI System for operation on pretreated water or ordinary tap water containing up to 250 ppm of TDS (total dissolved solids).

This system is specifically designed to process ordinary tap water or pretreated water, to provide a source of Type 2 (or better) deionized (DI) water to a small hydrogen generator. The system can produce up to 4 Liters (~1 Gallon) of purified water per 24 hour day.

The price of an **AQUA SOLUTIONS** model H-01-C system includes two Purification Kits, Part Number 2212H01. One kit is installed at startup, and the other is a spare. The spare kit is installed when the red LED on the purity monitor flashes, indicating that the installed kit is exhausted. The purification kit includes an activated carbon prefilter cartridge and a DI cartridge.

System Specifications

System dimensions:	12" wide by 12" deep by 18" high
System operating/shipping weight:	~25 lbs
Input power to AC Adaptor @ 100/240 VAC, 50/60 Hz	< 2.0 Amps
System operating power from AC Adaptor @ 12 VDC	< 2.5 Amps
Water inlet pressure	20 to 100 PSI
Maximum allowed total dissolved solids (TDS) in tap water feed	250 PPM
Maximum purified water flow rate	350 mL/min or up to 4 Liters/day
Minimum water purity	~2 Megohm-cm (0.5 μS/cm)
Purity monitor	LCD readout in μS/cm with flashing red LED alarm
Ion exchange capacity	~270 grains as CaCO ₃
System warranty	One (1) year
Purification kit part number	2212H01
Kit includes:	
Activated carbon prefilter capsule part number	2206AC
Mixed bed DI module part number	2212MB
Replacement pump part number:	2000CP-12VDC
Purity monitor part number:	M-PRONTO-CON
AC power adaptor part number:	TR-12VDC-2.5AMP

Installation Summary

To install the system, provide a source of pretreated or tap water at 20 PSI minimum, via a 1/4" or 3/8" NPT female shutoff supply valve within 10 feet of the system. Locate the system on a convenient bench or shelf within 10 feet of the tap water supply and 8 feet of the hydrogen generator. Use the included fittings and 1/4" OD black polyethylene tubing to connect the system to the water supply valve. Then, use the included fittings and 1/4" OD blue and red polyethylene tubing to connect the system to the hydrogen generator and a drain. Install the quick-disconnect activated carbon prefilter cartridge and DI cartridge in the system. Plug the AC adaptor into a 100/240 VAC, 50/60 Hz electrical outlet using a computer-type AC power cord. Plug the 12 VDC output cord from the AC adaptor into either of two receptacles on the system cabinet. Locate the purity monitor display within 6 feet of the system and plug its electrical cord into the remaining receptacle on the system cabinet. Refer to system operating manual for details.