

Features & Benefits

- ◆ Meets UL, CSA, and CE Mark Specs.
- ◆ Produces 2+ Megohm-cm DI water from ordinary tap water, at a flow rate of up to 2-Liters/minute.
- ◆ Includes purity monitor with flashing red LED alarm.
- ◆ Price includes a spare prefilter cartridge and DI module.
- ◆ System recirculates water continuously, ensuring maximum quality at all times.
- ◆ Price includes built-in activated carbon & sediment prefilter cartridge.
- ◆ Prefilter and DI cartridge/module can be replaced in 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.

Product Availability

AQUA SOLUTIONS Model H-40-C Reverse Osmosis plus Type 2 DI (RO+DI) System is designed to support Hydrogen Generators.

The H-40-C RO+DI system is a self-contained unit, measuring just 20" wide by 20" high by 12" deep.

It requires tap water, a drain, and a grounded 100-240 VAC, 50-60 Hz electrical outlet in order to operate. It

can be bench, shelf or wall-mounted up to 10 feet from the hydrogen generation system.

The H-40-C includes a 10 Liter/hour, built-in reverse osmosis (RO) pretreatment system, to reduce operating costs by 90%, while allowing the system to run on virtually any quality tap water. The RO purified water is stored in a 10-Liter pressurized storage tank that sits on top of the system. A 42-Liter RO storage tank is available as an option.

An LCD purity monitor continuously displays the purified water quality. The display can be located anywhere within 6' of the system for user convenience. When the water quality falls below the 0.5 $\mu\text{S}/\text{cm}$ (2 Megohm-cm) setpoint, a red LED flashes to signal that it is time to replace the prefilter cartridge and DI module with the included spares.

During operation, a quiet, 12 VDC pump continuously circulates purified water through the DI module 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 module.*

The system price includes one installed plus one spare Purification Kit. The kit includes one prefilter cartridge plus one DI module. The prefilter cartridge and DI module can be replaced in less than 5-minutes, without disrupting the operation of the hydrogen generator.



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Optional Meter Upgrade Part #: M-6AQ-UPGRADE

The H-40-C system is also available with a premium quality built-in conductivity/resistivity monitor with a red and green LED. It includes a user adjustably set point and is ideally suited for users that prefer to operate the system at a higher resistivity (~2-15 Megohm-cm).



Model H-40-C RO+DI System



Designed for Hydrogen Generation Systems

Model Number General Description

H-40-C **AQUA SOLUTIONS** model *H-40-C Reverse Osmosis plus Type 2 DI (RO+DI) System* for operation on pretreated water, or *ordinary tap water* containing up to 1,000 ppm of TDS (total dissolved solids). The 12 VDC system runs on 100-240 VAC, 50-60 Hz input power at 2 Amps.

The system includes a 10-Liter/hour reverse osmosis pretreatment system and is designed to provide up to 2-Liters/minute of Type 2 (or better) deionized (DI) water to one or more (depending on water usage) hydrogen generators.

The price of the **AQUA SOLUTIONS** model H-40-C *includes two (2) Purification Kits, Part Number 2613H40*. One kit is installed at startup, the other is a spare. The spare kit is installed when a red LED on the system’s purity monitor flashes on and off, indicating that the installed purification kit is exhausted. The purification kit includes an activated carbon prefilter cartridge and a high purity DI module.

The H-40-C system also includes a reverse osmosis (RO) cartridge, which is replaced as required. The RO cartridge has an estimated service life of 2-3 years under normal usage, provided that the activated carbon prefilter cartridge is replaced whenever the DI module is replaced.

System Specifications

Maximum Type 2 purified water flow rate:	2 Liters/min
RO production rate:	10-Liters/hour
System dimensions:	20" wide by 12" deep by 20" high
System operating/shipping weight:	~50 lbs
Input power to AC Adaptor at 100/240 VAC, 50/60 Hz:	< 2.0 Amps
System operating power from AC Adaptor at 12 VDC:	< 2.5 A
Minimum/maximum acceptable water inlet pressure:	20 to 70 PSI
Maximum allowed total dissolved solids (TDS) in tap water feed:	1,000 PPM
Minimum water purity:	~2 Megohm-cm (0.5 μ S/cm)
Standard Purity monitor:	LCD readout in μ S/cm with flashing red LED alarm, set point 0.5 μ S/cm
Optional Built-in monitor:	Digital display with red and green LED and an adjustable set point
Conductance/(Resistivity)::	0.055 to 100 MicroSeimens/cm (10 K Ω -cm to 18.2 M Ω -cm)
Ion exchange capacity:	~2,000 grains as CaCO ₃
System warranty:	One (1) year
RO storage tank:	10 Liters (~7 Liters usable capacity)
Purification kit part number:	2613H40
Kit includes:	
10" Activated carbon prefilter cartridge - part number:	CC1050
Mixed bed DI module - part number:	2613DI
Replacement pump part number:	2000CP-12VDC
Purity monitor part number:	M-PRONTO-CON
AC power adaptor part number:	TR-12VDC-2.5AMP
Placement	Indoors where the temperature ranges between 10 and 40 degrees Centigrade

