

# Genesis H2O

## Ultraviolet Disinfection System

### A Security System For Your Water

UV technology provides additional security for your water supply. It is proven to control microbiological (bacteria & virus) issues in water including *E.coli*, *Cryptosporidium*, and *Giardia Lamblia* without the use of chemicals.

### Gen H5 Residential Crossover High Flow Systems

#### Features

- Five models available (Gen H6-5, 10, 15, 25 & 40)
- Colour user interface with full diagnostics and warnings including QR codes
- “Future-proof” expandability port for future upgrades and options
- Axial flow, 316L stainless steel reactor, polished reactors with integral sensor port to allow for sensor upgradeability in the future (comes standard with visual glow plug)
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm<sup>2</sup>
- User friendly bayonet style lamp connector (Quick ¼ turn removal. No extra tools required.)
- True gland seal retaining nut with positive stop
- Reliable, industry proven low pressure, high-output (LP-HO) coated UV lamps with ceramic bases for durability and a 10,000 hour life
- Universal input, constant current electronic controller (one controller for all systems) in a splash-proof case
- Warranty (refer to Owner’s Manual for complete details including conditions & exclusions):
  - Reactor Chamber – Ten (10) Year Limited
  - Electronics – Three (3) Year Limited
  - UV Lamps – One (1) Year Limited
  - Quartz Sleeves – One (1) Year Limited



GENESIS H2O EQUIPMENT SPECIFICATIONS					
GENH-5, Residential Crossover UV systems, non-monitored					
MODEL	GENH5-5	GENH5-10	GENH5-15	GENH5-25	GENH5-40
Flow Rate (Industry Standard)	4 GPM 15.1 lpm 0.9 m <sup>3</sup> /hr.	10 GPM 37.9 lpm 2.3 m <sup>3</sup> /hr.	14 GPM 53 lpm 3.2 m <sup>3</sup> /hr.	25 GPM <sup>2</sup> 95 lpm 5.7 m <sup>3</sup> /hr.	40 GPM 151 lpm 9.1 m <sup>3</sup> /hr.
Alternate flow @ 16 mJ/cm <sup>2</sup> (US Public Health)	8 GPM 30.3 lpm 1.8 m <sup>3</sup> /hr.	19 GPM <sup>1</sup> 71.9 lpm 4.3 m <sup>3</sup> /hr.	27 GPM <sup>2</sup> 102.2 lpm 6.1 m <sup>3</sup> /hr.	47 GPM <sup>2</sup> 178 lpm 10.7 m <sup>3</sup> /hr.	78 GPM <sup>3</sup> 295 lpm 17.7 m <sup>3</sup> /hr.
Alternate flow @ 40 mJ/cm <sup>2</sup> (NSF/EPA)	3 GPM 11.4 lpm 0.7 m <sup>3</sup> /hr.	7 GPM 26.5 lpm 1.6 m <sup>3</sup> /hr.	11 GPM 41 lpm 2.5 m <sup>3</sup> /hr.	19 GPM 72 lpm 4.3 m <sup>3</sup> /hr.	31 GPM 117 lpm 7 m <sup>3</sup> /hr.
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1½" MNPT
Electrical	90-265V/50-60Hz. (IEC power cords required)				
Power Plug	North American, NEMA 5-15, 3-wire for all 110V				
Lamp Watts	18	34	45	67	101
Power (watts)	20 (19 @ 230V.)	38 (36 @ 230V.)	57 (48 @ 230V.)	73 (72 @ 230V.)	115 (108 @ 230V.)
Replacement Lamp	RL-210HO	RL-330HO	RL-420HO	RL-600HO	RL-950HO
Replacement Sleeve	RQ-210	RQ-330	RQ-420	RQ-600	RQ-950
Reactor Dimensions	3.5 x 11.7" (8.9 x 29.8 cm)	3.5 x 16.5" (8.9 x 41.8 cm)	3.5 x 20.0" (8.9 x 50.8 cm)	3.5 x 26.9" (8.9 x 68.3 cm)	3.5 x 40.7" (8.9 x 103.4 cm)
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated				
Controller Dimension	8.6 x 4.2 x 3.5" (217.4 x 107.5 x 88.7 mm)				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Optimum Water Temperature	2-40° C (36-104° F)				
UV Monitor Port (upgradeability)	Yes, includes visual glow plug				
Solenoid Output	Yes, but requires optional solenoid module				
4-20 mA Output	Yes, but requires optional 4-20 mA module				
Lamp Change Reminder (audible & visual)	Yes				
Lamp-Out Indicator (audible & visual)	Yes				
Shipping Weight	4.5 kg. (9.9 lbs.) 4 kg. (8 lbs.) cubed	5.4 kg. (11.9 lbs.) 5 kg. (11 lbs.) cubed	6.0 kg. (13.2 lbs.) 6 kg. (13 lbs.) cubed	7.2 kg. (15.9 lbs.) 8 kg. (16 lbs.) cubed	9.7 kg. (21.4 lbs.) 11 kg. (24 lbs.) cubed

Note: 1. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **13.6 gpm** (50 lpm) (3.1 m<sup>3</sup>/hr.) for ¾" port  
 2. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **22.1 gpm** (84 lpm) (5.0 m<sup>3</sup>/hr.) for 1" port  
 3. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **52 gpm** (197 lpm) (11.8 m<sup>3</sup>/hr.) for 1½" port

## Optional Upgrades

**UV Sensor Module** Allows the 254nm UV wavelength to be measured and displayed via the GEN-H6 controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all GenH6 units.

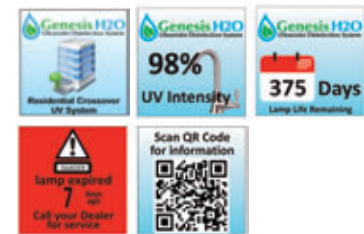


## UV Sensor Module

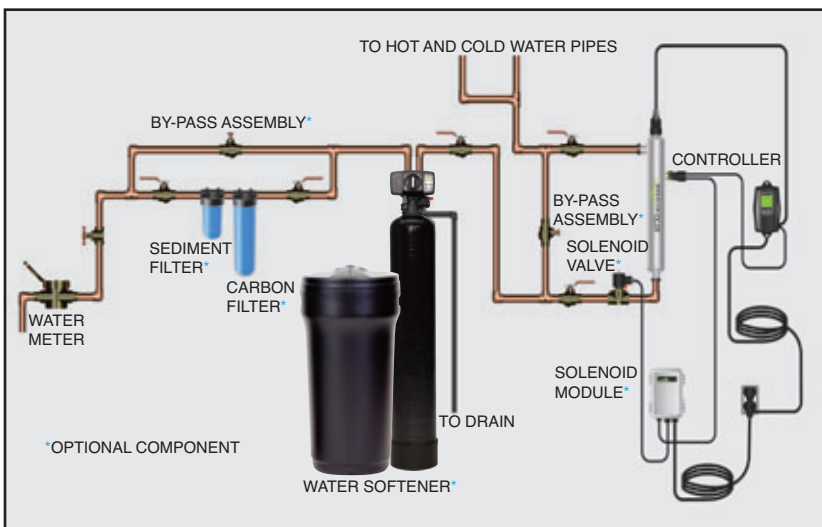
Used to power a remote normally closed solenoid valve (not included). Solenoid valve will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V MOD-SOL1 (Item # 40040006)



## Sample Screens



## Typical POE Installations



## Replacement Parts

System	Lamps	Sleeves	Controller
Gen H5-5	RL-210HO	RQ-210	RCHO-B56.12
	#40040018	#40040039	#40040074
Gen H5-10	RL-330HO	RQ-330	RCHO-B56.12
	#40040019	#40040041	#40040074
Gen H5-15	RL-420HO	RQ-420	RCHO-B56.12
	#40040020	#40040042	#40040074
Gen H5-25	RL-600HO	RQ-600	RCHO-B56.12
	#40040021	#40040044	#40040074
Gen H5-40	RL-950HO	RQ-950	RCHO-B56.12
	#40040022	#40040047	#40040074



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