



# 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 5 Residential Systems

#### Features

- Five models available (Gen5-3, 6 , 10, 15 & 20)
- Colour user interface with full diagnostics and warnings including QR codes
- “Future-proof” expandability port for future upgrades and options
- Designed & manufactured to ASME pressure vessel standards
- 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)
- 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.)
- Reliable, industry proven low pressure (LP) coated UV lamps with ceramic bases for durability and a 9000 hour life (1 year)
- 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					
GENESIS-5, Residential UV systems					
MODEL	GEN5-3	GEN5-6	GEN5-10-10	GEN5-15	GEN5-20
Flow Rate (@ 16 mJ/cm <sup>2</sup> @ 95% UVt)	6 GPM	11 GPM	20 GPM <sup>1</sup>	30 GPM <sup>2</sup>	39.2 GPM <sup>2</sup>
	23 lpm	41 lpm	77 lpm <sup>1</sup>	113.6 lpm <sup>2</sup>	150 lpm <sup>2</sup>
	1.4 m <sup>3</sup> /hr.	2.5 m <sup>3</sup> /hr.	4.6 m <sup>3</sup> /hr. <sup>1</sup>	6.8 m <sup>3</sup> /hr. <sup>2</sup>	8.9 m <sup>3</sup> /hr. <sup>2</sup>
Flow Rate (@ 30 mJ/cm <sup>2</sup> @ 95% UVt)	3 GPM	6 GPM	11 GPM	15 GPM	21 GPM
	11.4 lpm	22.7 lpm	41 lpm	56.8 lpm	79 lpm
	0.7 m <sup>3</sup> /hr.	1.4 m <sup>3</sup> /hr.	2.5 m <sup>3</sup> /hr.	3.4 m <sup>3</sup> /hr.	4.8 m <sup>3</sup> /hr.
Flow Rate (@ 40 mJ/cm <sup>2</sup> @ 95% UVt)	2.4 GPM	4.4 GPM	8.3 GPM	12 GPM	16 GPM
	9.1 lpm	17 lpm	31 lpm	45.4 lpm	59 lpm
	0.5 m <sup>3</sup> /hr.	1.0 m <sup>3</sup> /hr.	1.9 m <sup>3</sup> /hr.	2.7 m <sup>3</sup> /hr.	3.6 m <sup>3</sup> /hr.
Port Size	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	1" MNPT
Electrical	90-265V/50-60Hz.				
Plug Type	North American, NEMA 5-15, 3-wire for all 110V				
Lamp Watts	15	22	39	50	42
Power (watts)	20	30	49	62	51
Replacement Lamp	RL-290	RL-470	RL-820	RL-999	RL-850
Replacement Sleeve	RQ-290	RQ-470	RQ-820	RQ-999	RQ-850
Reactor Dimensions	2.5 x 14.3" (6.4 x 36.4 cm)	2.5 x 21.3" (6.4 x 54.2 cm)	2.5 x 35.2" (6.4 x 89.5 cm)	2.5 x 40.0" (6.4 x 101.6 cm)	3.5 x 36.1" (8.9 x 91.7 cm)
Chamber Material	Polished 304 Stainless Steel, A249 Pressure Rated Tubing				
Controller Dimensions	6.8 x 3.6 x 3" (171.5 x 92.1 x 76.2 mm)				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	2-40° C (36-104° F)				
UV Monitor Port (upgradeability)	No	Yes			
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	3.3 kg. (7.3 lbs.)	4.2 kg. (9.3 lbs.)	6.8 kg. (15.0 lbs.)	8.0 kg. (17.6 lbs.)	7.5 kg. (16.5 lbs.)
	3 kg. (7 lbs.) cubed	5 kg. (9 lbs.) cubed	7 kg. (15 lbs.) cubed	8 kg. (17 lbs.) cubed	10 kg. (22 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 3/4" 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

## Optional Upgrades

### UV Sensor Module



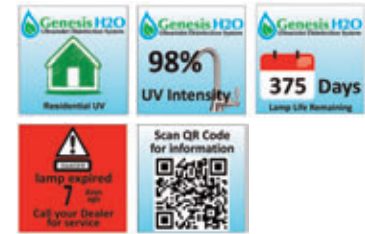
Allows the 254nm UV wavelength to be measured and displayed via the GEN-H6 controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all GenH6 units.



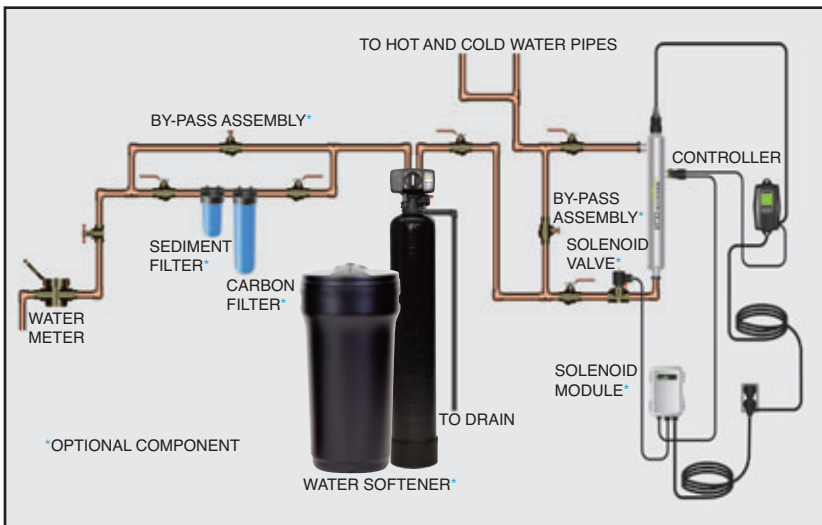
### UV Sensor Module

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 5-3	RL-290	RQ-290	RC-B56.01
	#40040013	#40040040	#40040066
Gen 5-6	RL-470	RQ-470	RC-B56.01
	#40040014	#40040043	#40040066
Gen 5-10	RL-820	RQ-820	RC-B56.01
	#40040015	#40040045	#40040066
Gen 5-15	RL-999	RQ-999	RC-B56.01
	#40040017	#40040048	#40040066
Gen 5-20	RL-850	RQ-850	RC-B56.01
	#40040016	#40040046	#40040066

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