

# AQUA FLO®

## Aqua Flo Gen 6 Residential Systems 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 6 Residential Systems

#### Features:

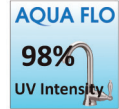
- ◆ Four models available (Gen 6-6 , 10, 15 & 20)
- ◆ True 254nm Teflon® based UV sensor continuously measures UV output and visually displays output via controller
- ◆ Colour user interface with full diagnostics and warnings including QR codes
- ◆ "Future-proof" expandability port for future upgrades and options
- ◆ Axial flow, 304 stainless reactors
- ◆ Designed & manufactured to ASME pressure vessel standards
- ◆ Flow rates stated at 95% UVT at a dose of 30mJ/cm2
- ◆ 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 (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



#### Guidelines for Use

Parameter	Level
Hardness	< 7 gpg (120 mg/L)
Iron (Fe)	< 0.3ppm (mg/L)
Manganese (Mn)	< 0.05ppm (mg/L)
Tannins	< 0.1ppm (mg/L)
Turbidity	< 1 NTU
Transmittance (UVT)	> 75%

MODEL	GEN6-6 40030006	GEN6-10 40030007	GEN6-15 40030008	GEN6-20 40030009
UV Flow Rate (@ 16 mJ/cm <sup>2</sup> @ 95% UVT)	11 GPM	20 GPM <sup>1</sup>	30 GPM <sup>2</sup>	39.2 GPM <sup>2</sup>
	41 lpm	77 lpm <sup>1</sup>	113.6 lpm <sup>2</sup>	150 lpm <sup>2</sup>
	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>
UV Flow Rate (@ 30 mJ/cm <sup>2</sup> @ 95% UVT)	6 GPM	11 GPM	15 GPM	21 GPM
	22.7 lpm	41 lpm	56.8 lpm	79 lpm
	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.
UV Flow Rate (@ 40 mJ/cm <sup>2</sup> @ 95% UVT)	4.4 GPM	8.3 GPM	12 GPM	16 GPM
	17 lpm	31 lpm	45.4 lpm	59 lpm
	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	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	22	39	50	42
Power (watts)	30	49	62	51
Replacement Lamp	RL-470	RL-820	RL-999	RL-850
Replacement Sleeve	RQ-470	RQ-820	RQ-999	RQ-850
Reactor Dimensions	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 Intensity Monitor	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	4.2 kg. (9.3 lbs.) 5 kg. (9 lbs.) cubed	6.8 kg. (15.0 lbs.) 7 kg. (15 lbs.) cubed	8.0 kg. (17.6 lbs.) 8 kg. (17 lbs.) cubed	7.5 kg. (16.5 lbs.) 10 kg. (22 lbs.) cubed
<b>Note: 1.</b> based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to <b>13.6 gpm</b> (50 lpm) (3.1 m <sup>3</sup> /hr.) for ¾" port <b>2.</b> based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to <b>22.1 gpm</b> (84 lpm) (5.0 m <sup>3</sup> /hr.) for 1" port				



**NSF Certified Models Available. Contact Customer Service For Details.**

#### REPLACEMENT PARTS

System	Lamps	Sleeves	Controller
Aqua Flo Gen 6-6	RL-470 #40040014	RQ-470 #40040043	RC-856.01 #40040066
Aqua Flo Gen 6-10	RL-820 #40040015	RQ-820 #40040045	RC-856.01 #40040066
Aqua Flo Gen 6-15	RL-999 #40040017	RQ-999 #40040048	RC-856.01 #40040066
Aqua Flo Gen 6-20	RL-850 #40040016	RQ-850 #40040046	RC-856.01 #40040066



#### UV Sensor Module

Allows the 254nm UV wavelength to be measured and displayed via the GEN-6 controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all Gen 6 units.



#### Solenoid 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)

# AQUA FLO®

Your Local Water Specialist