

# AQUA FLO®

## Aqua Flo Gen 5 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 5 Residential Systems

#### Features:

- ◆ Five models available (Gen 5-3, 6, 10, 15 & 20)
- ◆ Color 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/cm2
- ◆ 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



#### 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%

### AQUA FLO GEN-5, Residential UV systems

MODEL	GEN5-3 40030001	GEN5-6 40030002	GEN5-10 40030003	GEN5-15 40030004	GEN5-20 40030005
Flow Rate (@ 16 mJ/cm <sup>2</sup> @ 95% UVT)	6 GPM 23 lpm 1.4 m <sup>3</sup> /hr.	11 GPM 41 lpm 2.5 m <sup>3</sup> /hr.	20 GPM <sup>1</sup> 77 lpm <sup>1</sup> 4.6 m <sup>3</sup> /hr. <sup>1</sup>	30 GPM <sup>2</sup> 113.6 lpm <sup>2</sup> 6.8 m <sup>3</sup> /hr. <sup>2</sup>	39.2 GPM <sup>2</sup> 150 lpm <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 11.4 lpm 0.7 m <sup>3</sup> /hr.	6 GPM 22.7 lpm 1.4 m <sup>3</sup> /hr.	11 GPM 41 lpm 2.5 m <sup>3</sup> /hr.	15 GPM 56.8 lpm 3.4 m <sup>3</sup> /hr.	21 GPM 79 lpm 4.8 m <sup>3</sup> /hr.
Flow Rate (@ 40 mJ/cm <sup>2</sup> @ 95% UVT)	2.4 GPM 9.1 lpm 0.5 m <sup>3</sup> /hr.	4.4 GPM 17 lpm 1.0 m <sup>3</sup> /hr.	8.3 GPM 31 lpm 1.9 m <sup>3</sup> /hr.	12 GPM 45.4 lpm 2.7 m <sup>3</sup> /hr.	16 GPM 59 lpm 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	40040013	40040014	40040015	40040017	40040016
Replacement Sleeve	40040040	40040043	40040045	40040048	40040046
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.) 3 kg. (7 lbs.) cubed	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:</b> 1. 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 2. 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					

### Sample Screens



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

### REPLACEMENT PARTS

System	Lamps	Sleeves	Controller
Aqua Flo Gen 5-3	#40040013	#40040040	#40040066
Aqua Flo Gen 5-6	#40040014	#40040043	#40040066
Aqua Flo Gen 5-10	#40040015	#40040045	#40040066
Aqua Flo Gen 5-15	#40040017	#40040048	#40040066
Aqua Flo Gen 5-20	#40040016	#40040046	#40040066

### Options



#### UV Sensor Module

Allows the 254nm UV wavelength to be measured and displayed via the GEN-5 controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all GEN-5 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 MODSOL1 (Item # 40040006)

# AQUA FLO®

Your Local Water Specialist