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%

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AQUA FLO GEN EQUIPMENT SPECIFICATIONS

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^2 @ 95% UVT)	6 GPM / 23 lpm / 1.4 m3/hr.	11 GPM / 41 lpm / 2.5 m^3/hr.	20 GPM [1] / 77 lpm [1] / 4.6 m^3/hr. [1]	30 GPM [2] / 113.6 lpm [2] / 6.8 m^3/hr. [2]	39.2 GPM [2] / 150 lpm [2] / 8.9 m^3/hr. [2]
Flow Rate (@ 30 mJ/cm^2 @ 95% UVT)	3 GPM / 11.4 lpm / 0.7 m3/hr.	6 GPM / 22.7 lpm / 1.4 m^3/hr.	11 GPM / 41 lpm / 2.5 m^3/hr.	15 GPM / 56.8 lpm / 3.4 m^3/hr.	21 GPM / 79 lpm / 4.8 m^3/hr.
Flow Rate (@ 40 mJ/cm^2 @ 95% UVT)	2.4 GPM / 9.1 lpm / 0.5 m3/hr.	4.4 GPM / 17 lpm / 1.0 m^3/hr.	8.3 GPM / 31 lpm / 1.9 m^3/hr.	12 GPM / 45.4 lpm / 2.7 m^3/hr.	16 GPM / 59 lpm / 3.6 m^3/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.) / 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

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 m3/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 m3/hr.) for 1" port

Sample Screens

AQUA FLO — Residential UV

AQUA FLO — 98% UV Intensity

AQUA FLO — 375 Days Lamp Life Remaining

DANGER — lamp expired 7 days ago — Call your Dealer for service

NSF Certified Models Available. Contact Customer Service For Details.

REPLACEMENT PARTS

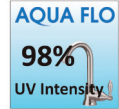| System	Lamps	Sleeves	Controller
Aqua Flo Gen 5-3	RL-290 #40040013	RQ-290 #40040040	RC-B56.01 #40040066
Aqua Flo Gen 5-6	RL-470 #40040014	RQ-470 #40040043	RC-B56.01 #40040066
Aqua Flo Gen 5-10	RL-820 #40040015	RQ-820 #40040045	RC-B56.01 #40040066
Aqua Flo Gen 5-15	RL-999 #40040017	RQ-999 #40040048	RC-B56.01 #40040066
Aqua Flo Gen 5-20	RL-850 #40040016	RQ-850 #40040046	RC-B56.01 #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)

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Your Local Water Specialist

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