# AQUA FLO - Standard Systems

## GEN4 Series
- GEN4-2: 2 gpm
- GEN5-3, GEN6-3: 3 gpm
- GEN4-6, GEN5-6, GEN6-6: 6 gpm
- GEN4-10, GEN5-10, GEN6-10: 11 gpm
- GEN4-15, GEN5-15, GEN6-15: 15 gpm
- GEN4-20, GEN5-20, GEN6-20: 21 gpm

## GENH4 Series
- GENH4-5: 4.1 gpm
- GENH4-10, GENH5-10, GENH6-10: 10 gpm
- GENH4-15, GENH5-15, GENH6-15: 14 gpm
- GENH4-25, GENH5-25, GENH6-25: 25 gpm
- GENH4-40, GENH5-40, GENH6-40: 40 gpm

## GEN5 / 6 Series
- GEN5-10, GEN6-10: 11 gpm
- GEN5-15, GEN6-15: 15 gpm
- GEN5-20, GEN6-20: 21 gpm

## GENH5 / 6 Series
- GENH5-10, GENH6-10: 10 gpm
- GENH5-15, GENH6-15: 14 gpm
- GENH5-20, GENH6-20: 21 gpm
Congratulations on purchasing this ultraviolet disinfection system. By purchasing a AQUA FLO UV Disinfection system you are receiving not only a high quality product but also peace of mind. Protecting your water supply with a UV system gives you reassurance that your family will have access to safe drinking water throughout your entire home with no chance of microbiological contamination. This is chemical free process which is simple in its concept and effective in its abilities to inactivate microorganisms present in the water supply. Simple maintenance, continuous disinfection and ultimately safe water, AQUA FLO makes it that easy.
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Safety Considerations

Although your UV system has been manufactured to the highest safety standards, care must be followed when operating and/or maintaining your system.

1. Before servicing this equipment, disconnect the power cord from the electrical outlet.

2. **Energy given off by the UV lamp is harmful to your eyes and skin.** NEVER look directly at an illuminated UV lamp without adequate eye protection and always protect your skin from direct exposure to the UV light.

3. For complete disinfection, use ONLY genuine replacement parts.

4. Do not operate the unit if it has any damaged or missing components.

5. To avoid possible electrical shock, use only with a properly grounded electrical outlet.

6. Never perform any maintenance to the system unless you are comfortable in doing so. Contact the manufacturer for service instructions if required.

7. Do not use this system for any purpose other than what it was intended for. Misuse of this system could potentially cause harm to the user or others.

8. Your system is intended to be installed indoors and away from leaking plumbing. DO NOT plug the unit in if the system or any of the components are wet.

9. The disinfection system should be directly installed into a ground fault circuit interrupter (GFCI). If the use of an extension cord is required, the cord must be manufactured with a minimum of 16 gauge wire and care should be taken to avoid potential tripping hazards.

10. We recommend that a licensed plumber or certified technician install the system.

Before You Begin

The following will be needed for installing the UV system:

Tools

- Pipe cutter, hacksaw or other specialized tools required to cut into your existing plumbing (e.g. if you have PEX piping)
- Soldering tools (torch, flux, emery cloth and solder)
- Wrench (for tightening fittings)

Other Materials

- Inlet/outlet connections
- Teflon™ tape
**Water Quality Parameters**

UV disinfection is extremely effective against microorganisms but only if the UV light can pass through the water it needs to treat. This means that the quality of your water is very important in order to ensure complete disinfection.

Treated water should be tested for at the least the parameters listed below. If the water exceeds the listed parameters AQUA FLO strongly recommends that appropriate pretreatment equipment be installed (equipment required will depend on parameters being treated):

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Requirement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hardness</strong></td>
<td>&lt;7 gpg (120 mg/L)</td>
<td>– if hardness level is 7 gpg or slightly below the quartz sleeve must be cleaned periodically in order to ensure efficient UV penetration; if above the water must be softened.</td>
</tr>
<tr>
<td><strong>Iron (Fe)</strong></td>
<td>&lt;0.3 ppm (0.3 mg/L)</td>
<td></td>
</tr>
<tr>
<td><strong>Manganese (Mn)</strong></td>
<td>&lt;0.05 ppm (0.05 mg/L)</td>
<td></td>
</tr>
<tr>
<td><strong>Turbidity</strong></td>
<td>&lt;1 NTU</td>
<td></td>
</tr>
<tr>
<td><strong>Tannins (organics)</strong></td>
<td>&lt;0.1 ppm (0.1 mg/L)</td>
<td></td>
</tr>
<tr>
<td><strong>UVT (transmittance)</strong></td>
<td>&gt;85% (Please contact AQUA FLO if water has a UVT that is less than 80% for pre-treatment recommendations)</td>
<td></td>
</tr>
</tbody>
</table>

You can have your water tested at a private analytical laboratory or by your local dealer. It is always recommended to install pre-filtration of at least 5 microns prior to a AQUA FLO UV disinfection system.
Assembly

Unpack the system and ensure all the components are included with the system. Your system is shipped with the following components:

AQUA FLO (Standard output lamp systems)

CONTROLLER

GEN4 SYSTEMS
40040112 North American

GEN5/GEN6 SYSTEMS
40040066 North American

GLAND NUT
40040079

O-RING
40040082

UV LAMP
40040113 “-2” series
40040013 “-3” series
40040096 “-6” series
40040015 “-10” series
40040016 “-20” series
40040017 “-15” series

SLEEVE SPRING
40040085

QUARTZ SLEEVE
40040039 “-2” series
40040040 “-3” series
40040043 “-6” series
40040045 “-10” series
40040046 “-20” series
40040048 “-15” series

LAMP KEY

GLOW PLUG
(GEN4/5 units only)
40040102 Complete Assembly
40040103 Teflon Plug
40040084 O-Ring
40040104 Brass Nut

UV SENSOR
(GEN6 units only)
40040001 GEN6 -2, -3, -6, -10, -15 series
40040002 GEN6-20 series

REACTOR
AQUA FLO-HO (High output lamp systems)

**CONTROLLER**
- GENH4 SYSTEMS
  - 40040075 (fits all units)
- GENH5/GENH6 SYSTEMS
  - 40040074 (fits all units)

**GLOW PLUG** (GEN4/5 units only)
- 40040102 Complete Assembly
- 40040103 Teflon Plug
- 40040084 O-Ring
- 40040104 Brass Nut

**UV SENSOR** (GEN6 units only)
- 40040003 Standard series

**POWER CORD**
- 40040086 North American

**UV LAMP**
- 40040018 “-5” series
- 40040019 “-10” series
- 40040020 “-15” series
- 40040021 “-25” series
- 40040022 “-40” series

**GLAND NUT**
- 40040079

**O-RING**
- 40040082

**SLEEVE SPRING**
- 40040085

**QUARTZ SLEEVE**
- 40040039 “-5” series
- 40040041 “-10” series
- 40040042 “-15” series
- 40040044 “-25” series
- 40040047 “-40” series

**REACTOR**
System Sizing

All AQUA FLO UV systems are rated for a specific flow rate in water that meets the quality parameters on page 5. PLEASE NOTE that increasing the flow above this rating or disinfecting water that does not meet the quality parameters will decrease the dose and therefore compromise the microorganism inactivation.

To determine flow rate follow these simple steps:

Be sure no water is being used in the home. Open a faucet or tap nearest the pressure system and run until the well pump starts. Close the faucet and using a second hand watch, record the length of time in seconds until the pump stops. This is known as the cycle time.

Then using a container of known volume, preferably in US Gallons, open the faucet or tap nearest the pressure system and measure the amount of water drawn off until the pump starts again. Depending on the size of the container used, it is acceptable to turn the faucet on and off to empty the container. This measurement is known as the draw down.

To calculate the pressure system flow rate divide the draw down by the cycle time and multiply that by 60.

\[
\text{Draw Down} \div \text{Cycle Time} \times 60 = \text{Pumping Rate in USGPM}
\]

Location

For Point of Entry (POE) systems, choose a location where the main cold water line is accessible. The system must be installed after other water treatment equipment (softener or filters), but before any branches (See Figure 1). For Point of Use (POU) systems, install the unit just before the faucet. AQUA FLO recommends that a 5 micron filter be installed before the UV system for a final polishing step before the water is disinfected.

Figure 1. Recommended POE Installation Location
To facilitate lamp removal, ensure there is enough space at the lamp connector end to safely remove the UV lamp and/or quartz sleeve (See Figure 2). The controller will require a ground fault circuit interrupter (GFCI or GFI) outlet and should be mounted beside or above the reactor. **PLEASE NOTE:** All AQUA FLO UV disinfection systems are intended for indoor use only as they should not be exposed to the elements.

**Installation**

**Step 1:** The reactor can be installed either horizontally or vertically using the clamps provided. Vertical installation is the preferred method with the inlet at the bottom (lamp connection at the top) as it allows any air that may be in the lines to be easily purged from the system.

**Step 2:** The use of a by-pass assembly is recommended as it will allow you to isolate the UV reactor. This will allow for easier access in case maintenance is required (See Figure 3).

**Step 3:** Use the supplied fasteners to mount the UV reactor to wood or drywall. If mounting to an alternate material you will need to purchase the proper corresponding fasteners.

**Step 4:** For water supplies where the maximum flow rate is unknown, a flow restrictor is recommended so that the rated flow of your particular AQUA FLO system is not exceeded. The flow restrictor should be installed on the outlet port of the reactor.

**Step 5:** It is recommended to have a licensed plumber connect the UV reactor to the water supply and may be a requirement depending on where you are located.

**Figure 2. Lamp Removal Spacing**

**Figure 3. By-pass assembly**

**Note:** Installation of your AQUA FLO disinfection systems shall comply with applicable provincial/state & local regulations.
Step 6: Once the system has been plumbed in, gently remove the quartz sleeve from its packaging being careful not to touch the length with your hands. The use of cotton gloves is recommended for this procedure as oils from the hands can leave residue on the sleeve and lamp which can ultimately block the UV light from getting to the water.

Carefully slide the sleeve into the reactor until you can feel it hit the opposite end of the reactor. Align the sleeve so it centered along the length of the reactor, then gently push it in to lock it into the internal centering springs in the far side of the reactor. CAUTION: Pushing too hard when the sleeve is not aligned can damage the centering springs. Slide the o-ring onto the sleeve until it is butted up against the reactor.

![Figure 4. Quartz Sleeve Installation](image)

Step 7: Hand tighten the provided gland nut over the quartz sleeve onto the threaded end of the reactor. It has a positive stop to prevent over-tightening. A firm force may be required to fully tighten the gland nut, but DO NOT USE TOOLS for this step. Insert the provided stainless steel compression spring into the quartz sleeve. The spring works with the lamp and lamp connector to create the proper lamp alignment. PLEASE NOTE: DO NOT install a UV lamp inside the quartz sleeve without the sleeve spring in place.

Step 8: Install the UV sensor (GEN6 systems only). Align the flat portion so it faces the gland nut end and matches up with the half metal lip on the sensor port (see Figure 5). Insert the sensor so it is fully seated and hand tighten the sensor nut.

![Figure 5. UV Sensor Installation](image)

Step 9: The reactor is now ready for water flow. When all plumbing connections have been completed, slowly turn on the water supply and check for leaks. Make sure the by-pass valves are functioning properly and that the water is flowing through the reactor. The most common leak is from the o-ring not making a proper seal on the reactor. For new installations, review steps 6 and 7. For older systems drain the reactor, remove the o-ring, dry it and reapply silicon grease. Reinstall the o-ring ensuring that it is properly sealed against the reactor and check again for leaks.

Step 10: Mount the controller to the wall so it is above or beside the reactor to ensure that no moisture can deposit on any of the connections (see Figure 1). Always mount the controller vertically. For monitored systems, insert the sensor connector into the IEP port located on the right side of the controller (Figure 6). For the sensor to be recognized by the controller, the controller power must be plugged in last. Do not plug the controller power cord in before the last step.
Step 11: Always hold UV lamps by their ceramic ends, not by the lamp quartz. Remove the lamp from its packaging. Again, the use of cotton gloves is recommended. Remove the lamp key from the lamp’s connector and set it aside for the next step. Be careful to not touch the key’s exposed contacts. Insert the UV lamp into the reactor, being careful not to drop it.

![Figure 7a. Standard Output UV Lamp Connection](image)

![Figure 7b. High Output UV Lamp Connection](image)

Step 12: Install the lamp key into the controller (GEN5, GEN6 systems only). The key always comes packaged with the lamp and sits on the connector. With the key removed from the lamp, orient it so the label is upright and facing you. The key will plug into the lamp key port on the right side of the controller (Figure 8).

![Figure 8. Lamp Key Installation](image)

Step 13: Plug the lamp connector into the lamp. Note the keying for proper alignment (see Figure 7a, 7b). Insert the lamp connector into the gland nut and turn the connector approximately ¼ turn to lock the connector to the gland nut as in Figure 9.

![Figure 9. Lamp Connector](image)

Step 14: Tighten the captive ground screw to the ground lug on the UV reactor to ensure proper grounding.

![Figure 10. Ground Screw Connection](image)

Step 15: Your system is now ready to be plugged into the appropriate GFCI protected outlet. Refer to the following section before any water is allowed to flow through the system.
System Disinfection

With a new installation, or any time the UV system is shut down for service, without power, or is inoperative for any other reason, the lines in the home or facility could be contaminated. Use the following steps to fully disinfect the lines throughout the entire home or facility.

Step 1: Check for and remove any “dead ends” in the lines throughout the home as these can harbor bacteria. Plug in the UV system and wait until it is ready for operation.

Step 2: Remove the filter cartridge from the last sump and fill it with 1-2 cups of household bleach (most are 5.25% chlorine). Replace the sump and slowly turn on the water supply.

Step 3: At a water outlet, run the water until bleach can be smelled. Repeat this for all faucets, toilets, shower heads, refrigerators, outdoor taps, the washing machine, dishwasher, etc. at the home or facility. Once finished, wait a minimum of 30 minutes before continuing.

Step 4: Reinstall the filter cartridge into the sump and flush the chlorine solution by opening all faucets until chlorine can no longer be detected. Your home has now been completely disinfected with your AQUA FLO UV system ready to inactivate any microorganisms that enter the home.

Cleaning the Quartz Sleeve

Depending on the water quality, the quartz sleeve may require periodic cleaning. At a minimum, the quartz sleeve should be cleaned on an annual basis. The following steps outline a basic cleaning procedure.

Step 1: If a by-pass assembly is installed, shut the inlet valve off to prevent water flow through the system. Otherwise, turn off main water inlet valve (and/or turn off the water pump).

Step 2: Disconnect power cord of UV system from electrical outlet.

Step 3: Release water pressure by opening a downstream faucet and then close the outlet shut-off valve (if any). If there is no outlet shut-off valve, expect water to drain from the system as the head pressure in the system will cause the water to flow back down.

Step 4: Remove the captive ground screw from the ground lug on the UV reactor.

Step 5: Remove the lamp connector from the reactor (gland nut) by pushing the lamp connector in and turning it ¼ turn counter-clockwise. Disconnect the lamp connector from the lamp. CAUTION: the lamp may be hot!

Step 6: Being careful to touch only the ceramic ends, remove the lamp out of the reactor.

Step 7: Unscrew the gland nut from the reactor exposing the end of the quartz sleeve.

Step 8: Remove the quartz sleeve and o-ring by gently twisting and pulling the quartz sleeve.

Step 9: Using a soft, lint-free cloth or towel wipe the sleeve down using a commercial scale cleaner (i.e. CLR® or LIME-A-WAY®). This removes scaling or iron deposits that may be on the outside of the quartz sleeve. Be careful not to get any moisture or liquids inside of the sleeve.

Step 10: Dry the sleeve with separate cloth.
Step 11: Replace the o-ring and slide the sleeve back into the reactor following steps 7 and 8 from the installation section of the manual.

Cleaning the UV Sensor

Depending on the water quality, the UV sensor may require periodic cleaning. At a minimum, the UV sensor should be cleaning on an annual basis. The following steps outline a basic cleaning procedure.

Step 1: If a by-pass assembly is installed, shut the inlet valve off to prevent water flow through the system. Otherwise, turn off main water inlet valve (and/or turn off the water pump).

Step 2: Disconnect power cord of UV system from electrical outlet.

Step 3: Release water pressure by opening a downstream faucet and then close the outlet shut-off valve (if any). If there is no outlet shut-off valve, expect water to drain from the system as the head pressure in the system will cause the water to flow back down.

Step 4: Place something under the reactor to catch any water that may come out of the reactor during the removal of the UV sensor.

Step 5: Unscrew (counterclockwise) sensor nut from the reactor and pull the sensor slowly out of the sensor port.

Step 6: Holding the sensor in your hand wipe the flat portion (sensor face) of the sensor with isopropyl alcohol using a clean lint-free cloth.

Step 7: Replace sensor following step 9 from the installation section of the manual.

Operation

AQUA FLO systems come with a feature laden controller that incorporates both the lamp driver (ballast) and control features in one water-tight case. Four main controllers are available for the AQUA FLO systems (depending on your model). All four models feature a power factor corrected, constant current lamp driver with a universal power input.

Please Note: While the LED or display screen is red and the buzzer is sounding the water from the system should NOT be consumed. If any water does pass through the system during this period, please follow the disinfection procedure as outlined in this manual before the water is consumed. For GEN4 and GEN5 systems, even though they have a visual and audible warning built into the controller, a green LED or status screen does not necessarily indicate that the water coming from this system is in fact potable (safe to drink). These systems do not measure the level of disinfection; they simply measure the “on-off” status of the lamp. Please have your water checked for microbiological contaminants on a regular basis.
GEN4 Controllers

Simplistic in operation, these systems feature a tri-colour LED that indicating system status and a 4-digit display to indicate lamp life remaining. Pressing the button will change the display to indicate total running time. When the UV lamp is on and within its operating age, the LED will be green. When the UV lamp is not on or the lamp life has expired, the LED will be illuminated red and an audible buzzer will be sounding. To remedy this condition, the UV lamp must be replaced with a new genuine AQUA FLO UV lamp.

GEN5 & GEN6 Controllers

A full colour LCD screen provides the user with a detailed description of the system’s performance in addition to providing any applicable fault messages and system diagnostics. The controllers used in both the GEN5 and GEN6 are identical. The difference is that the GEN6 series of products includes a UV intensity monitor. All GEN5 and GEN6 controllers include an “infinite expandability port” located on the right side of the controller. Simply plug in an optional UV sensor module into the expandability port of a GEN5 controller and the system will now monitor the UV intensity of the system!

GEN5 & GEN6 Power-up Sequence

On start up, the controller will run through a diagnostic start-up and the sequence will be displayed as follows on the colour LCD:

Next, the controller checks for and initializes any optional modules that may be attached to the system.
A final module screen is displayed showing which specific modules were initialized.

The controller then displays the lamp optimization screen for 60 seconds to allow the lamp to reach its optimum output. Finally, a final “start-up complete” screen is displayed. The system will now be ready to disinfect water flow.

**GEN5 Operational Screens**

On systems without the UV monitor, the default screen shows the AQUA FLO Home Screen. At any point during operation the user is able to scroll through the **AQUA FLO Home Screen, Lamp life remaining, QR Code, Contact Info and Maintenance Parts** screens by pressing the button located on the front of the controller.
GEN6 Operational Screens

On systems with the UV monitor, the system will display the same screens as on the GEN5 except the UV Intensity replaces the home screen. The UV Intensity screen displays the level of UV light detected by the sensor. UV intensity can be affected by poor water quality, scaling on the quartz sleeve and/or sensor, lamp failure or lamp expiring. The following screens show the UV Intensity dropping.

Below 56%, the numbers and warning sign turn red and an audible chirp is given by the ballast every 15 seconds. Below 51%, the screen is solid red and a constant audible alarm is given. This alternates with a screen indicating “water may be unsafe for consumption”. With the solenoid module, the controller de-activates the solenoid valve, shutting off all water flow.

**Lamp Countdown Sequence**

The system counts down the number of days until a lamp change is required.

At thirty days remaining, the LED or display screen will change to a yellow caution indicator. At seven days remaining, the system will additionally repeat an audible chirp. Past the zero day threshold, the LED or display screen changes to solid red with a continuous buzzer. Systems with a display screen also cycles between a red “lamp expired” screen and a “water may be unsafe for consumption” screen while systems with the 4-digit display will change to “LE”.

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At any point during this sequence, the audible chirp or alarm can be deferred for seven days by holding the controller button down for a period of five seconds. On systems with display screens the number of deferrals used will be displayed as below. Once the deferral expires, the alarm will sound once again. The deferral can be repeated up to three times. **PLEASE NOTE:** At any point after lamp expiration, the water may be unsafe for consumption and should not be consumed without another form of disinfection.

### Lamp Replacement (GEN4 systems)

After the lamp is expired, it must be replaced with the same part number as indicated by the label on the reactor. Begin replacing the lamp by unplugging the power for the controller, then refer to **Installation**, starting with step 11 (page 11) for instructions on installing the new lamp. To reset the timer in the controller, firmly hold down the button on the controller while plugging the power cord back into the outlet. Continue holding down the button, the display will read “rSEt”, then 375 (or 420). The button can now be released, the lamp countdown timer has been reset.

### Lamp Replacement (GEN5 & GEN6 systems)

After the lamp is expired, it must be replaced with the same part number as indicated on the Maintenance Parts screen or on the label on the reactor. With the system powered down, remove and discard the lamp key from the controller. The replacement lamp is packaged with a lamp key on the connector at the end of the lamp. Remove the key from the lamp and place it in the controller. Refer to **Installation**, starting with step 11 (page 11) for instructions on installing the new lamp.

### QR Codes

A **QR code** (Quick Response code) is a matrix barcode first designed for the automotive industry. AQUA FLO uses the QR code to store a link to a specific page on our website. Users with a camera phone equipped with the correct reader application can scan the image of the QR code and over a wireless network connect to a AQUA FLO web page in the phone’s browser. AQUA FLO’s QR webpage has information on how to purchase replacement components as well as a helpful video directory on system servicing (i.e. How to change a UV lamp or quartz sleeve). To access the QR code on the AQUA FLO controller, press the control button until the QR code screen appears.
System Troubleshooting

**Hard Alarms:** The following give a constant audible alarm. If present, the solenoid valve is closed, and the 4-20, remote alarm and ethernet modules transmit the alarm.

<table>
<thead>
<tr>
<th>System Display</th>
<th>Problem</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="lamp failure" /></td>
<td>The system has detected a problem with the lamp.</td>
<td>Replace the lamp with the part as indicated on the silver label on the reactor or on the Maintenance parts screen.</td>
</tr>
<tr>
<td><img src="image" alt="lamp expired" /></td>
<td>Although the lamp is powered and visibly illuminated, due to the lamp’s age its UV output is no longer sufficient for proper disinfection.</td>
<td>Replace the lamp with the part as indicated on the silver label on the reactor or on the Maintenance parts screen.</td>
</tr>
<tr>
<td><img src="image" alt="UV OUTPUT 50%" /></td>
<td>Low UV Intensity.</td>
<td>Remove and clean the quartz sleeve and sensor. Check water quality meets requirements on page 5 and add filtration as required. Replace lamp.</td>
</tr>
<tr>
<td><img src="image" alt="LAMP INCORRECT" /></td>
<td>Wrong lamp or sensor installed.</td>
<td>Replace component with proper model as indicated.</td>
</tr>
<tr>
<td><img src="image" alt="UV SENSOR FAILURE" /></td>
<td>The UV sensor is no longer communicating with the system.</td>
<td>Ensure all modules are connected properly to the system and to each other. Modules can be tested individually by plugging in one at a time and cycling power to the system.</td>
</tr>
<tr>
<td><img src="image" alt="CONNECTION FAILURE" /></td>
<td>A bad connection has been detected in the IEP port.</td>
<td>Replace any module that is not detected when plugged directly into the controller.</td>
</tr>
<tr>
<td><img src="image" alt="LAMP KEY NOT FOUND" /></td>
<td>Missing or incorrect lamp key.</td>
<td>Ensure the lamp key (packed with the lamp, on the connector) is installed. Unplug and reinstall the key. Ensure the key part number matches Lamp on Maintenance Parts screen.</td>
</tr>
</tbody>
</table>
### Soft Alarms: The following remaining errors give a 15 second audible chirp only

<table>
<thead>
<tr>
<th>System Display</th>
<th>Problem</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLENOID FAILURE</td>
<td>Ensure all modules are connected properly to the system and to each other.</td>
<td></td>
</tr>
<tr>
<td>4-20 mA FAILURE</td>
<td>Modules can be tested individually by plugging in one at a time and cycling power to the system.</td>
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<tr>
<td>REMOTE ALARM FAILURE</td>
<td>Replace any module that is not detected when plugged directly into the controller.</td>
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<tr>
<td>ETHERNET FAILURE</td>
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</tbody>
</table>

**Boil Water Advisory:** If any failure occurs on a AQUA FLO UV system, the water must not be used for human consumption until the system is returned to a safe operational mode. If the water is used for human consumption during this period, the water must be boiled (minimum 20 minutes at a full boil) prior to consumption.
Temperature Management Devices

Your AQUA FLO UV system is designed to run continuously to ensure optimal disinfection. However, during periods when no water is drawn through the system, the energy from the disinfection process can cause the temperature of the water inside the chamber to rise. In extreme situations elevated water temperature or the fluctuation in temperature can lower the output of the UV lamp. In these cases, or if the elevated water temperature is a nuisance, AQUA FLO recommends one of the following forms of temperature management devices.

**Cooling Fan**

Designed for use on the AQUA FLO-HO systems, the fan runs continuously to cool the water by forced convection. The long-life fan is powered independently using a compact modular power adapter that operates from 90-265V (47-63Hz). Order PN 40040009 (only fits GENH4/GENH5/GENH6 systems).

**Temperature Relief Valve (TRV)**

On reaching a higher temperature, the TRV is designed to drain a small amount of water to allow fresh, cooler water to enter the system. The TRV works without power and comes complete with 10’ of drain line. Order PN 40040098 for 1/2” ports, PN 40040099 for 3/4” ports, PN 40040100 for 1” ports and PN 40040101 for 1 1/2” ports.

**Expansion Modules**

GEN5 and GEN6 controllers incorporate an “Infinite Expandability Port” (IEP) which allows for expansion to the UV sensor and all other modules. Each module (including the sensor) comes with both a male and female connection. Connect any device to the controller and all subsequent devices are then connected into the female end of last device added in a “daisy chain” configuration.

The following optional expansion modules are available for use on GEN5 and GEN6 UV controllers. Contact your authorized distributor for purchasing information.

**REMOTE ALARM CONNECTION MODULE:** Allows for a connection to a remote device such as a buzzer, light, alarm system, PLC, etc., via a pair of contacts. In normal operation the OK and COM contacts will be connected, and in a fault condition (Low UV, Lamp fail, Power Fail), the Fault and COM contacts will be connected. Maximum Contact Rating is 1A-120V AC/DC (use 16-22 AWG). Order PN 40040008.
SOLENOID CONNECTION MODULE: Connects a normally closed line voltage solenoid valve to the system. On a non-monitored system, the solenoid will only close on a lamp failure error. On a monitored system, the solenoid is closed when the UV level drops below 50%. Also note that in cases where emergency use of untreated water is required, the controller can be placed into a manual override mode allowing for the flow of water in an alarm condition. Order PN 40040006.

4-20 mA MODULE: Outputs a 4-20mA signal of the UV output to a remote device such as a data logger or computer. Order PN 40040007.

ETHERNET MODULE: Allows for all controller functions to be connected to a computer via an Ethernet cable.
## AQUA FLO Standard Output System Specifications

### AQUA FLO EQUIPMENT SPECIFICATIONS

**Multi-Use / Residential systems (standard output lamps)**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>GEN4-2</th>
<th>GEN5-3</th>
<th>GEN6-3</th>
<th>GEN4-6</th>
<th>GEN5-6</th>
<th>GEN6-6</th>
<th>GEN4-10</th>
<th>GEN5-10</th>
<th>GEN6-10</th>
<th>GEN4-15</th>
<th>GEN5-15</th>
<th>GEN6-15</th>
<th>GEN4-20</th>
<th>GEN5-20</th>
<th>GEN6-20</th>
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<tr>
<td>16ml/cm² @ 95% UVT</td>
<td>3.8 gpm</td>
<td>6.1 gpm</td>
<td>11 gpm</td>
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<td>39 gpm</td>
<td>0.87 m³/hr</td>
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<td>4.6 m³/hr</td>
<td>6.8 m³/hr</td>
<td>8.9 m³/hr</td>
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<tr>
<td>30ml/cm² @ 95% UVT</td>
<td>2.0 gpm</td>
<td>3.1 gpm</td>
<td>5.8 gpm</td>
<td>11 gpm</td>
<td>15 gpm</td>
<td>21 gpm</td>
<td>0.46 m³/hr</td>
<td>0.70 m³/hr</td>
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<td>4.8 m³/hr</td>
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<td>40ml/cm² @ 95% UVT</td>
<td>1.6 gpm</td>
<td>2.4 gpm</td>
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<td>12 gpm</td>
<td>16 gpm</td>
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<td>1.9 m³/hr</td>
<td>2.7 m³/hr</td>
<td>3.6 m³/hr</td>
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<td>Port Size</td>
<td>½&quot; FNPT</td>
<td>½&quot; MNPT</td>
<td>¾&quot; MNPT</td>
<td>¾&quot; MNPT</td>
<td>1&quot; MNPT</td>
<td>1&quot; MNPT</td>
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<td>Lamp Power (Watts)</td>
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<td>Replacement Lamp</td>
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<td>40040013</td>
<td>40040014</td>
<td>40040015</td>
<td>40040017</td>
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<td>Replacement Sleeve</td>
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<td>40040040</td>
<td>40040043</td>
<td>40040045</td>
<td>40040047</td>
<td>40040046</td>
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<tr>
<td>Reactor Dimensions</td>
<td>6.4 x 26.2 cm (2.5 x 10.3&quot;)</td>
<td>6.4 x 36.4 cm (2.5 x 14.3&quot;)</td>
<td>6.4 x 54.2 cm (2.5 x 21.3&quot;)</td>
<td>6.4 x 89.5 cm (2.5 x 35.2&quot;)</td>
<td>6.4 x 101.6 cm (2.5 x 40.0&quot;)</td>
<td>8.9 x 91.7 cm (3.5 x 36.1&quot;)</td>
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<tr>
<td>Controller Material</td>
<td>304 Stainless Steel, A249 Pressure Rated Tubing</td>
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<tr>
<td>Operating Pressure</td>
<td>17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4&quot;)</td>
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<tr>
<td>Operating Water Temperature</td>
<td>2-40°C (36-104°F)</td>
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<tr>
<td>UV Monitor</td>
<td>YES on all GEN6 models. Upgrade available for GEN5 models (NOT available on GEN4 models)</td>
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<tr>
<td>Solenoid Output</td>
<td>YES (optional solenoid module (40040006) sold separately)</td>
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<td>Dry Contacts</td>
<td>YES (remote alarm module (40040008) sold separately)</td>
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<td>4-20mA Output</td>
<td>YES (4-20mA module (40040007) sold separately)</td>
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<tr>
<td>Temperature Mgmt. Valve</td>
<td>NA</td>
<td>PN# 130131</td>
<td>PN# 130132</td>
<td>PN# 130133</td>
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<tr>
<td>Cooling Fan</td>
<td>NO</td>
<td>OPTIONAL (40040009)</td>
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<tr>
<td>Lamp Change Reminder</td>
<td>YES</td>
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<tr>
<td>Lamp Out Indicator</td>
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<tr>
<td>Shipping Weight</td>
<td>2.9 kg (6.3 lbs)</td>
<td>3.6 kg (7.9 lbs)</td>
<td>4.4 kg (9.6 lbs)</td>
<td>6.0 kg (13.2 lbs)</td>
<td>6.5 kg (14.4 lbs)</td>
<td>8.2 kg (18.0 lbs)</td>
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</table>
# AQUA FLO-HO High Output System Specifications

## AQUA FLO EQUIPMENT SPECIFICATIONS

### Residential Crossover systems (high output lamps)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>GENH4-5</th>
<th>GENH4-10</th>
<th>GENH4-15</th>
<th>GENH4-25</th>
<th>GENH4-40</th>
<th>GENH5-5</th>
<th>GENH5-10</th>
<th>GENH5-15</th>
<th>GENH5-25</th>
<th>GENH5-40</th>
<th>GENH6-5</th>
<th>GENH6-10</th>
<th>GENH6-15</th>
<th>GENH6-25</th>
<th>GENH6-40</th>
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<tr>
<td><strong>Flow Rate</strong></td>
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<tr>
<td>30mJ/cm² @ 95% UVT</td>
<td>4.0 gpm</td>
<td>10 gpm</td>
<td>14 gpm</td>
<td>25 gpm</td>
<td>40 gpm</td>
<td>11.1 m³/hr</td>
<td>2.3 m³/hr</td>
<td>3.2 m³/hr</td>
<td>5.7 m³/hr</td>
<td>9.1 m³/hr</td>
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<tr>
<td>40mJ/cm² @ 95% UVT</td>
<td>3.0 gpm</td>
<td>7.0 gpm</td>
<td>11 gpm</td>
<td>19 gpm</td>
<td>31 gpm</td>
<td>11 gpm</td>
<td>26 gpm</td>
<td>42 gpm</td>
<td>72 gpm</td>
<td>120 lpm</td>
<td>0.68 m³/hr</td>
<td>1.6 m³/hr</td>
<td>2.5 m³/hr</td>
<td>4.3 m³/hr</td>
<td>7.0 m³/hr</td>
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<tr>
<td><strong>Flow Rate</strong></td>
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<tr>
<td>Hot Water (-HW suffix) model</td>
<td>2.8 gpm</td>
<td>7.0 gpm</td>
<td>9.8 gpm</td>
<td>16 gpm</td>
<td>28 gpm</td>
<td>11 gpm</td>
<td>26 gpm</td>
<td>37 gpm</td>
<td>61 gpm</td>
<td>110 lpm</td>
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<td>1.6 m³/hr</td>
<td>2.2 m³/hr</td>
<td>3.6 m³/hr</td>
<td>6.4 m³/hr</td>
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<tr>
<td>Low UVT (-50 suffix) model</td>
<td>1.7 gpm</td>
<td>4.2 gpm</td>
<td>6.1 gpm</td>
<td>10 gpm</td>
<td>17 gpm</td>
<td>6.4 lpm</td>
<td>16 lpm</td>
<td>23 lpm</td>
<td>38 lpm</td>
<td>64 lpm</td>
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<td>1.0 m³/hr</td>
<td>1.4 m³/hr</td>
<td>2.3 m³/hr</td>
<td>3.9 m³/hr</td>
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<td>TOC (-TOC suffix) model</td>
<td>0.8 gpm</td>
<td>2.0 gpm</td>
<td>2.8 gpm</td>
<td>5.1 gpm</td>
<td>8.0 gpm</td>
<td>3.0 gpm</td>
<td>7.6 gpm</td>
<td>11 lpm</td>
<td>19 lpm</td>
<td>30 lpm</td>
<td>0.2 m³/hr</td>
<td>0.5 m³/hr</td>
<td>0.6 m³/hr</td>
<td>1.1 m³/hr</td>
<td>1.8 m³/hr</td>
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<td><strong>Port Size</strong></td>
<td>¾” MNPT</td>
<td>¾” MNPT</td>
<td>1” MNPT</td>
<td>1” MNPT</td>
<td>1 ½” MNPT</td>
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<td>Lamp Power (Watts)</td>
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<td>45</td>
<td>67</td>
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<td>40040019</td>
<td>40040020</td>
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<td>40040042</td>
<td>40040044</td>
<td>40040047</td>
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<tr>
<td>Reactor Dimensions</td>
<td>8.9 x 29.8 cm (3.5 x 11.7&quot;)</td>
<td>8.9 x 41.8 cm (3.5 x 16.5&quot;)</td>
<td>8.9 x 50.8 cm (3.5 x 20.0&quot;)</td>
<td>8.9 x 68.3 cm (3.5 x 26.9&quot;)</td>
<td>8.9 x 103.4 cm (3.5 x 40.7&quot;)</td>
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<tr>
<td>Chamber Material</td>
<td>316L Stainless Steel, A249 Pressure Rated Tubing</td>
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<tr>
<td>Controller Dimensions</td>
<td>21.7 x 10.8 x 10.2 cm (8.6 x 4.2 x 4&quot;)</td>
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<tr>
<td>Operating Pressure</td>
<td>0.7-10.3 bar (10-150 psi)</td>
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<tr>
<td>Operating Water Temperature</td>
<td>2-40°C (36-104°F)</td>
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<tr>
<td>UV Monitor</td>
<td>YES on all GENH6 models. Upgrade available for GENH5 models (NOT available on GENH4 models)</td>
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<tr>
<td>Solenoid Output</td>
<td>YES (optional solenoid module 40040006 sold separately)</td>
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<tr>
<td>Dry Contacts</td>
<td>YES (remote alarm module 40040008 sold separately)</td>
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<tr>
<td>4-20mA Output</td>
<td>YES (4-20mA module 40040007 sold separately)</td>
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<tr>
<td>Temperature Mgmt. Valve</td>
<td>PN# 40040099</td>
<td>PN# 40040100</td>
<td>PN# 40040101</td>
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<tr>
<td>Cooling Fan</td>
<td>OPTIONAL (40040009 sold separately)</td>
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<tr>
<td>Lamp Change Reminder</td>
<td>YES</td>
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<tr>
<td>Lamp Out Indicator</td>
<td>YES</td>
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<tr>
<td>Shipping Weight</td>
<td>4.4 kg (9.7 lbs)</td>
<td>5.2 kg (11.5 lbs)</td>
<td>5.6 kg (12.9 lbs)</td>
<td>7.0 kg (15.5 lbs)</td>
<td>9.6 kg (21.1 lbs)</td>
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Limited Warranty Statement:

Products manufactured by Canature WaterGroup Inc., (AQUA FLO) are warranted to the original user only to be free of defects in material and workmanship for a period as specified below. This warranty only applies to the original purchaser and is not transferable.

UV SYSTEMS
Ten (10) year Limited Warranty on the stainless steel reactors, from the date of original purchase, or installation (proper documentation required for verification).

ELECTRONICS
Three (3) year Limited Warranty on the ballasts and controllers, from the date of original purchase, or installation (proper documentation required for verification).

UV LAMPS, UV SENSORS & QUARTZ SLEEVES
One (1) year Limited Warranty on all AQUA FLO ultraviolet lamps, UV sensors and quartz sleeves from the date of original purchase, or installation (proper documentation required for verification).

This Canature WaterGroup Ultraviolet Disinfection System will be repaired or replaced, at our sole option, providing that the ultraviolet system or any component is defective in materials or workmanship for the periods outlined above and subject to the “Limitations of Warranty” as outlined below. Canature WaterGroup’s liability under this warranty shall be limited to repairing or replacing the product, without charge, F.O.B. Canature WaterGroup’s closest Distribution Facility or authorized service depot. Canature WaterGroup will not be liable for any costs of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim. Canature WaterGroup will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair, or if the product was not installed in accordance with the Manufacturers printed installation and operating instructions.

LIMITATIONS OF WARRANTY
This warranty does not apply to any of the following:

- Water Quality Parameters lie outside of the following ranges
  - Hardness > 120 mg/L (7 gpg)
  - Iron > 0.3 mg/L (ppm)
  - Manganese > 0.05 mg/L (ppm)
  - Tannins > 0.1 mg/L (ppm)
  - Turbidity > 1 NTU
  - Transmittance (UVT) < 75%
- A product that has been incorrectly installed according to the technical installation manual.
- A product that has been modified in any manner, unless approved by the manufacturer.
- A product where the serial number has been altered defaced or removed.
- Damage caused by the use of parts that are not compatible, suitable and/or authorized by AQUA FLO for use with the product (e.g. non-original lamps or sleeves).
- Damage caused during shipment of the product.
- Water damage is found inside ballast housing or controllers.
- Product is installed outdoors in direct contact with the environment (rain).
- Product is installed in freezing temperatures.
- Product is used in conditions that exceed AQUA FLO’s specifications.
TO GET WARRANTY SERVICE

Please contact the Dealer or Distributor where the product was originally purchased to obtain service under this warranty. Your Dealer / Distributor will obtain a Warranty Return Authorization and will then need to return the product to Canature WaterGroup, together with proof of purchase and installation date, failure date, and supporting installation data. Any defective product to be returned must be sent freight prepaid.

CANATURE WATERGROUP INC. WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSSES, OR EXPENSES ARISING FROM INSTALLATION, USE, OR ANY OTHER CAUSES. THERE ARE NO EXPRESS OR IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THOSE WARRANTIES DESCRIBED OR REFERRED TO ABOVE.

THIS LIMITED WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY MADE BY CANATURE WATERGROUP WITH RESPECT TO THIS ULTRAVIOLET DISINFECTION PRODUCT, AND IS GIVEN IN LIEU OF ANY OTHER WARRANTY. TO THE EXTENT ALLOWED BY APPLICABLE LAW, ANY AND ALL EXPRESS OR IMPLIED WARRANTIES NOT SET FORTH HEREIN ARE WAIVED AND DISCLAIMED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. CANATURE WATERGROUP’S LIABILITY UNDER THIS LIMITED WARRANTY IS LIMITED SOLELY TO THOSE LIABILITIES SET FORTH ABOVE. IN THE EVENT THAT ANY PROVISION OF THIS LIMITED WARRANTY SHOULD BE FOUND TO BE OR BECOME INVALID OR UNENFORCEABLE UNDER APPLICABLE LAW, THE REMAINING TERMS AND CONDITIONS HEREOF SHALL REMAIN IN FULL FORCE AND EFFECT AND SUCH INVALID OR UNENFORCEABLE PROVISION SHALL BE CONSTRUED IN SUCH A MANNER AS TO BE VALID AND ENFORCEABLE.

Warranty Registration

It is imperative that you complete the warranty registration process. This not only registers your UV disinfection system for the provided manufacturer’s warranty, but also allows the factory to provide you with any important product updates or technical bulletins concerning your product. To register, completely fill out the included warranty card, including a valid e-mail address. PLEASE NOTE: This information is for the sole purpose of technical support for your disinfection system and will not be used, or sold, to any other organisation for any other purpose.