

PRODUCT BULLETIN

ISSUE/DATE:	July 2023	BULLETIN NUMBER:	23-PB-CV-AVANT LAMP STATUS
TOPIC:	LAMP STATUS INDICATORS	PRODUCT LINE:	Aquafine Avant

OVERVIEW

The Aquafine Avant system is equipped with a Lamp Status screen that provides an overview of how the system is operating.

The purpose of this bulletin is to clarify the meaning of the Lamp Status indicators and provide additional troubleshooting instructions. This information will be included in future versions of the Operations and Maintenance Manuals (O&M Manuals).

DETAILS

The Lamp Status screen

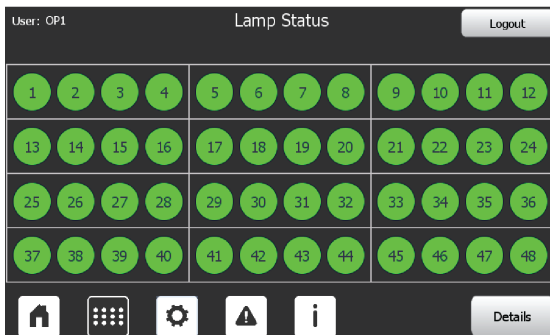


Figure 1 Software Version 081_072_002_002_000

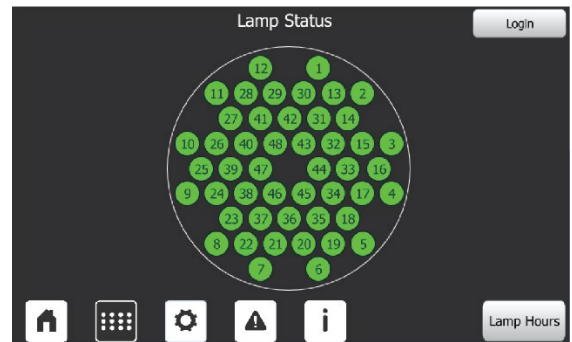





Figure 2 Software Version 081_072_003_000_000

Button/Icon	Color	Description/Action
	Grey	UV Lamp is off. Select icon to open Lamp and Driver Information Screen
	Green	UV Lamp is on and healthy. Select icon to open Lamp and Driver Information Screen
	Red	UV Lamp is unhealthy. Select icon to open Lamp and Driver Information Screen

GREY ICON – UV LAMP IS OFF

- The UV Lamp is turned off.
- The UV system is not running
- The UV system is operating in Grouping Mode, and the lamps indicated in Grey are not turned on.

GREEN ICON – UV LAMP IS ON AND HEALTHY

- The UV Lamp is on and functioning as expected.
- The system is operating.
- The UV system is operating in Grouping Mode and the lamps indicated in Green are turned on.

RED ICON – UV LAMP IS UNHEALTHY

- The Lamp Driver is reporting a fault at that lamp position.
- A Red Icon may indicate that a lamp needs to be replaced, but there are other causes of a Red Icon including issues with the lamp driver, lamp cable or moisture inside the lamp sleeve.
- This fault will be reported even if the lamp is off, so that the operator can proactively address the issue before attempting to power on the lamp. For example – if the system is in Grouping Mode and the faulted lamp is on a group that is turned off, the icon will still show up as Red. This allows the operator to address the fault, before selecting the lamp grouping with the faulted lamp.

TROUBLESHOOTING A RED ICON

1. CYCLE THE CONTROL PANEL POWER

If the Red Icon is caused by a Rectification Fault or a Ground Fault, the issue may be intermittent and can be cleared by cycling power to the Control Panel.

Follow the instructions in Section 5 System Startup and Shutdown in your O&M.

2. INSPECT THE LAMP CABLES FOR DAMAGE

The socket should be inspected to ensure that the UV Lamp connection is tight, and no damage is present. Visually check the cable for cuts or nicks in the black insulation material, exposed wires or signs of blackening or corrosion on the connector pins.

3. TEST THE LAMP

Swap the suspected failed UV Lamp with a known working UV Lamp. Refer to Section 9.6.2 of your O&M for detailed instructions.

If the error follows the failed UV Lamp, replace the failed UV Lamp. Refer to Section 9.6.2 of your O&M for detailed instructions.

If the error does not follow the failed UV Lamp, then the fault is not related to the function of the lamp. The Lamp Driver may need to be replaced and/or other failure modes need to be addressed (cable, moisture).

4. INSPECT THE SLEEVE FOR MOISTURE

The Lamp Driver has the capability to detect moisture in the UV Lamp Sleeve. This moisture could be from condensation or a damaged sleeve. Water can cause the lamp sockets to arc, corrosion on the lamp pins, burning of the Lamp Sockets and damage to the electrical components.

Refer to Section 9.6.2 of your O&M for instructions on how to remove the UV Lamp. Inspect the Lamp for evidence of moisture or corrosion. You can also remove the lamp sleeve, referring to Section 9.8.1, and inspect it for moisture.

SAFETY

We remind you that only adequately trained and qualified individuals should operate, repair or maintain your Aquafine equipment.

When performing maintenance on any equipment, be sure to follow all applicable safety practices such as wearing personal protective equipment, locking out and tagging sources of energy and depressurizing vessels before performing any service, always consult the equipment O&M manual before beginning work. Failure to follow these instructions could result in serious bodily injury or death.

ASSISTANCE

If you require technical assistance or have any questions regarding this bulletin, please contact the Technical Assistance Center: tac@trojanuv.com or call 1-866-388-0488. Outside of North America please call 01-519-457-2318