



AquaRite

AquaRite Communication Board for Omni Controls

Installation Manual

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HLAQRPCB

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Overview

The HLAQRPCB is a communication board used to allow full control of a Hayward AquaRite chlorine generator by either an OmniLogic or OmniHub automation control. The OmniLogic and OmniHub can turn the AquaRite on and off based on the filter pump's schedule and desired level setting. When using an HL-CHEM Sense and Dispense Module, the OmniLogic or OmniHub can also monitor the pool's ORP level and automatically increase or decrease chlorine production to maintain a desired ORP level.

Install the AquaRite according to its included instructions. Install the HLAQRPCB and wire according to the instructions in this manual. After installation is complete, the OmniLogic and OmniHub manuals explain how to configure and control the chlorinator function.

IMPORTANT: Before attempting this installation, completely disconnect power to the AquaRite and to the OmniLogic or OmniHub control.

Installation

Mounting

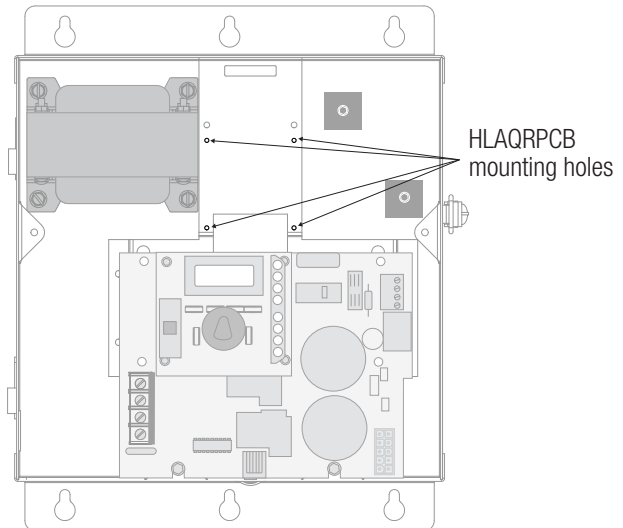
To mount the HLAQRPCB circuit board inside of the AquaRite, follow the steps below.

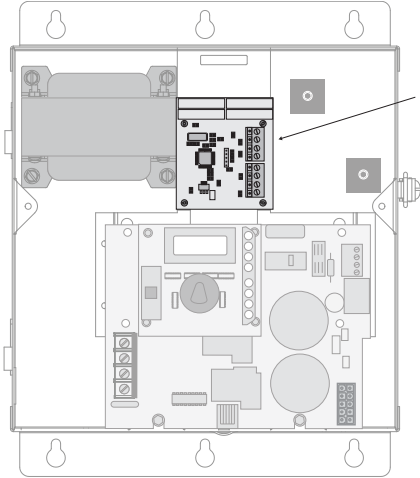
Step 1

Disconnect power to the AquaRite. Open the enclosure door. After removing the two panel screws, remove the cover panel.

Step 2

Refer to the diagram below and locate the HLAQRPCB mounting holes on the AquaRite enclosure. Push the HLAQRPCB "mounting feet" into the enclosure holes as shown on the top of the following page. All four feet should install firmly to secure the circuit board.





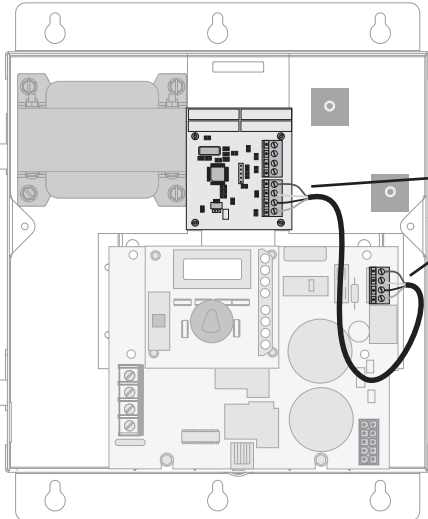
Push HLAQRPCB mounting feet firmly into holes until the circuit board is secure.

Wiring

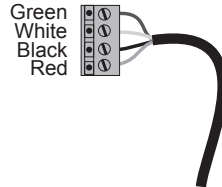
The HLAQRPCB comes packaged with two cables; a short cable that will connect the HLAQRPCB to the AquaRite's main board and a 15 ft cable which will run through an enclosure knockout and back to the OmniLogic or OmniHub control.

AquaRite

The short cable must be connected from the HLAQRPCB to the AquaRite as shown below. If the AquaRite has a screw terminal connector already installed on the connector pins, remove it by pulling straight upward and install the short cable's connector in its place.



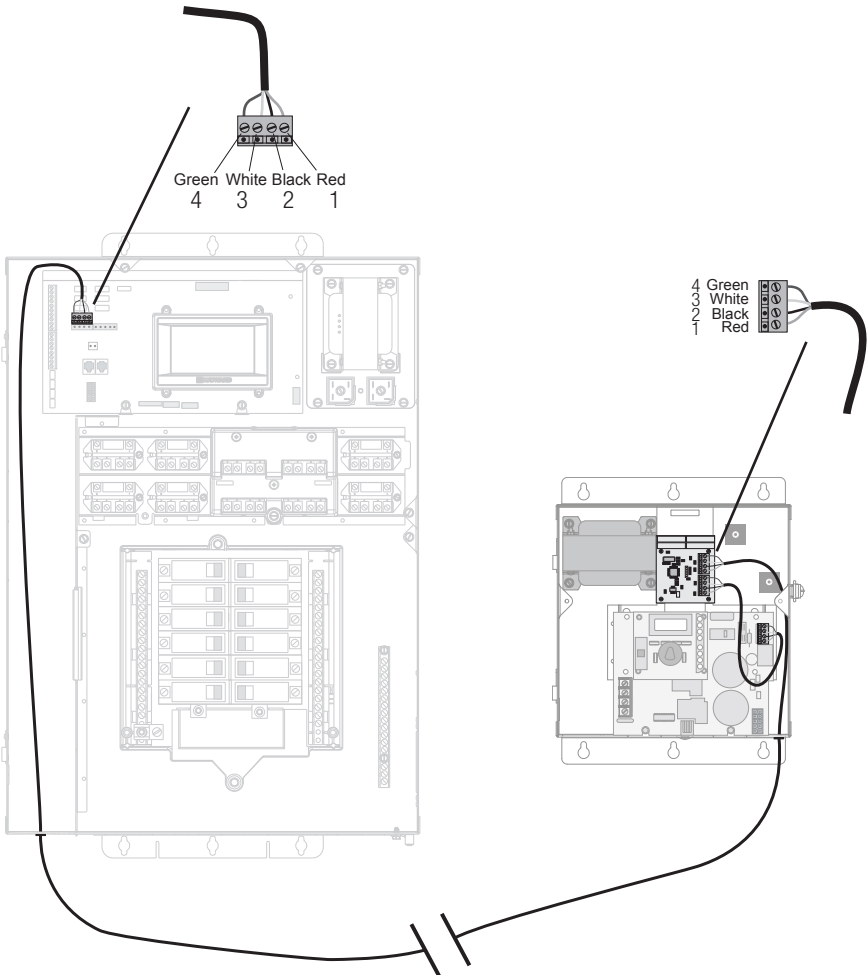
On the HLAQRPCB, the short cable connects to the position labeled: "To AQUA RITE" as shown.





OmniLogic

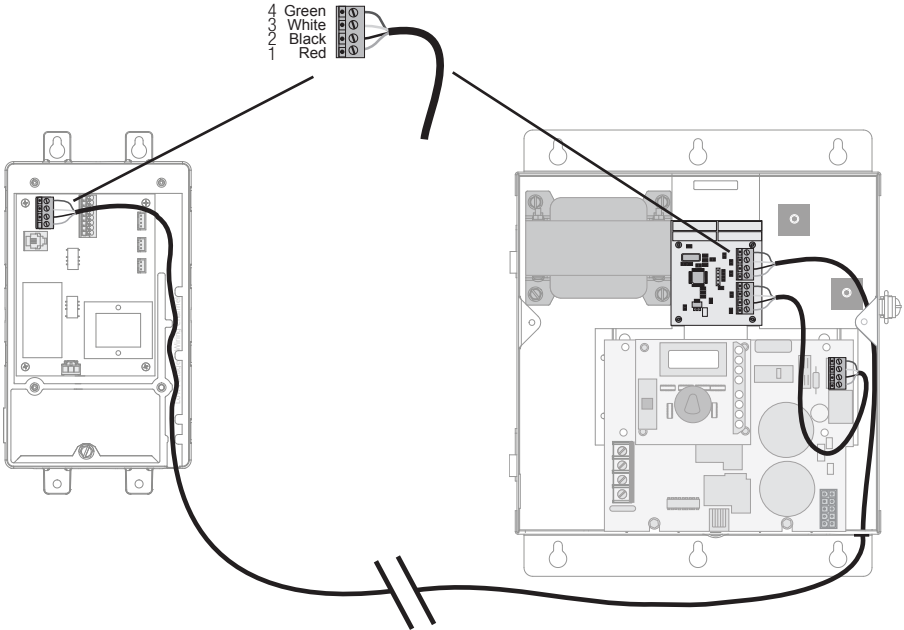
Disconnect power to both the AquaRite and the OmniLogic before removing their panels. Use the included 15' 4 conductor communication cable to wire the units as shown below. Route the cable through appropriate knockouts making sure they are not shared with high voltage wiring. After the communication cable is fastened and secure, refasten the panels and reconnect power.





OmniHub

Disconnect power to both the AquaRite and the OmniHub before removing their panels/cover. Use the included 15' 4 conductor communication cable to wire the units as shown below. Route the cable through appropriate knockouts making sure they are not shared with high voltage wiring. After the communication cable is fastened and secure, refasten the panels and reconnect power.





Configuration and Pool Preparation

Before configuring your OmniLogic or OmniHub for operation with the AquaRite, verify that the AquaRite is enabled for use with these automation controls. Scrolling through the diagnostic displays (using the "Diagnostic" button on the AquaRite), make sure that the name configuration is NOT set to "AL-5". Follow the procedure below:

1. Make sure AquaRite Main Switch is in the Auto position.
2. Push the Diagnostic button 5 times or until you see "AL-X" displayed (where X = 0, 1, 2, 3, 4, or 5). This is the name configuration for your unit.
3. If the display shows "AL-0", "AL-1", "AL-2", "AL-3", or "AL-4", skip to step 4. If "AL-5" is displayed, move the Main Switch from "Auto" to "Super Chlorinate" then back to "Auto". The display should now show "AL-0". Proceed to next step.
4. The AquaRite is enabled for use with the OmniLogic or OmniHub automation control. Refer to the OmniLogic or OmniHub Installation manuals for configuration information. This can be found in the Configuration Wizard section of the manual.
5. After the OmniLogic/OmniHub are configured, check that the "Remotely Controlled" LED is lit on the AquaRite. If not, refer to Troubleshooting section.
6. Make sure a Flow Switch has been installed and connected directly to the AquaRite. Do not attempt to begin operation until the proper amount of salt has been added to your pool. Instructions for preparing pool water chemistry, including how much salt to add, can be found in the AquaRite manual.

Operation

Refer to the OmniLogic or OmniHub Operation manuals for daily operation information. These manuals will instruct how to enable/disable the chlorinator, set a desired level, set a schedule for the chlorinator, and more.



Troubleshooting

1. "Remotely Controlled" LED not lit

- Power cycle both the OmniHub and the AquaRite.
- Verify that all wiring is secure and the status LED is lit on the communication board. Always disconnect power before removing cover panel. If the status LED is not lit, contact Hayward Technical Support.

2. Communication issue between HLAQRPCB and AquaRite

- Power cycle the AquaRite.
- Check that the short cable is properly connected and secure to both the HLAQRPCB and AquaRite.
- Check AL-X status. Refer to Configuration and Pool Preparation section on page 4.
- Make sure that the AquaRite is not set in "Secondary" mode. Refer to the AquaRite manual.

3. AquaRite indicator LEDs and error messages

- Refer to the Troubleshooting section of the AquaRite manual for detailed information about error messages and LED indicators.

For further information or consumer
technical support, visit our website at
www.hayward.com



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