

## Variable Speed Control Operation (using Aqua Logic Control)

**⚠ ATTENTION** – Refer to TriStar Pump Owner’s Guide (IS3200) for all applicable pump warning, installation, operation, and troubleshooting information. Refer to TriStar Energy Solution Owner’s Guide (IS3220VSC) for all applicable control warning, installation, operation, and troubleshooting information. Owner’s guides may also be obtained online at [www.haywardpool.com](http://www.haywardpool.com).

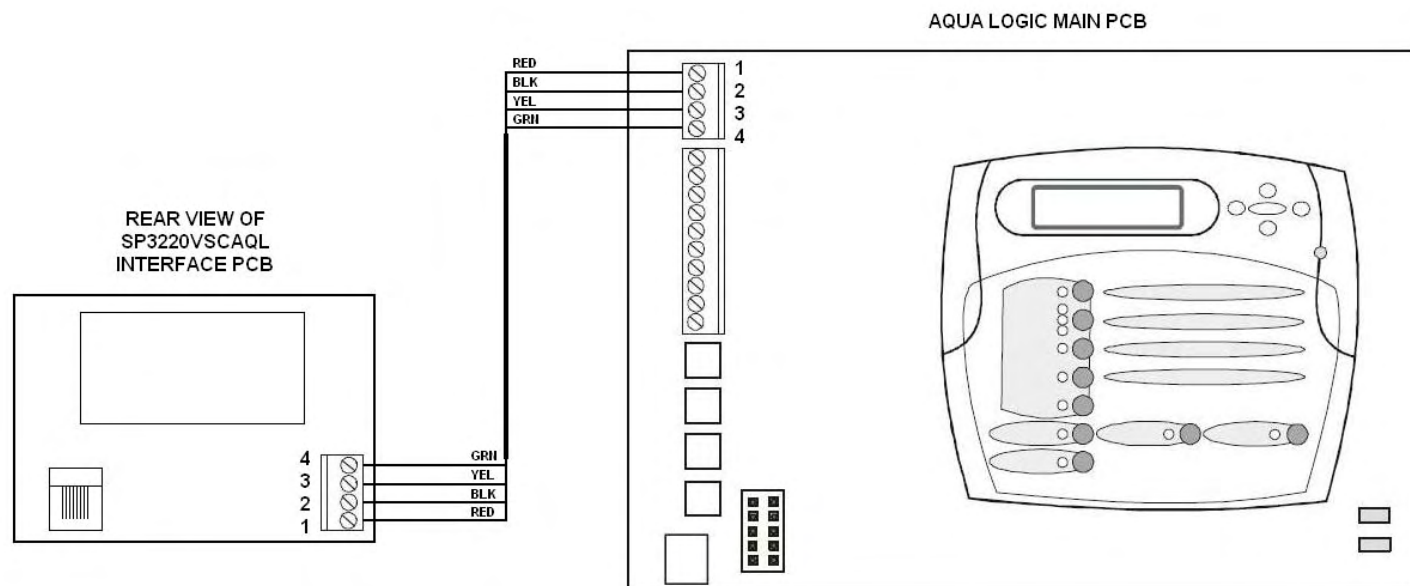
### Wiring

#### Input Power Wiring

**Turn off electrical power at the circuit breaker before making any power or communications wiring connections.** The Hayward TriStar Energy Solution Variable Speed Control (VSC) requires 230VAC input power. The Aqua Logic filter relay should be used to provide the line power supply to the VSC. Refer to the Aqua Logic and VSC installation manuals for applicable wiring connections.

#### Communications Wiring

Use four conductor cable (typically phone cable) for communications connection between the VSC and the Aqua Logic control center as shown below. The maximum wiring distance is 500 feet (160 meters). Note that the terminals on both the VSC interface board and the Aqua Logic main board are numbered. The terminal connections should be matched between both terminal blocks (connect 1 to 1, 2 to 2, etc.). The communications cable should be routed through the knockout hole on the left side of the VSC enclosure, and a watertight fitting should be used to keep water and debris out of the opening. The communications cable should also be routed away from the Aqua Logic and VSC power connections if possible.



### Menu Settings

#### Variable Speed Settings (for Aqua Logic control)

Once the power and communications connections have been made between the Aqua Logic and the VSC and power is applied to the system, the Aqua Logic pump configuration, timers, and settings must be changed to allow variable speed operation. Refer to the Aqua Logic installation manual for applicable configuration and settings information.