http://waterheatertimer.org/Digital-control-centers-and-manuals.htm#PE653RC

Chapter 3: Installing — Ratings, 120V/240V Wiring, Power In/Out

IMPORTANT: The installer must fill out the MultiWave Pool & Spa Control System Worksheet for Programming at the back of this guide so that the controller can be programmed.

Ratings

Controller Power In:

• 120/240 VAC, 50/60 Hz, 5 W max.

Contact Ratings:

Load 1

- 120/240 VAC
- 20 A Resistive
- 17 Full Load A, 80 Lock Rotor A
- 5A Tungsten

Loads 2-5

- 120/240 VAC
- 15 A Resistive
- 10 Full Load A, 60 Lock Rotor A
- 5A Tungsten



Figure 3-1. PE653 Receiver.

120V Wiring Applications

This Installation Guide covers most typical applications. If you need more instructions for 120V or specific applications (i.e. water feature, auxiliary devices), please go to http://www.intermatic.com to access the MultiWave Configurator for more wiring diagrams or call technical support for assistance.



Figure 3-2. Wiring for 120V 1-Speed Pump





Figure 3-3. Wiring for 120V 1-Speed Pump + Any 4 120V Auxiliary Components



Figure 4-7. Wiring Circuits #1 & #2 to a 240 VAC 2-Speed Pump for PE653RC.

Variable Speed Pumps

Connecting a Pentair Variable Speed Pump Communication Cable to Receiver

If you have a Pentair Variable Speed Pump, follow this procedure to connect the variable speed pump communication cable to the receiver. This enables the pump to communicate with the receiver.

- 1. Make sure power is off at the receiver and variable speed pump.
- 2. Connect the twist-lock connector end of the communication cable to the variable speed pump.
- 3. Connect the green wire from the unattached end of the communication cable to the connector terminal next to the Cat 5 cable. See Figure 4-11.

NOTE: Be sure to observe polarity when connecting the variable speed pump cable wires.

4. Connect the yellow wire from the cable to the connector terminal next to the green wire. See Figure 4-11.





240V Wiring Applications

This Installation Guide covers most typical applications. If you need more instructions for 240V or specific applications (i.e. water feature, auxiliary devices), please go to http://www.intermatic.com to access the MultiWave Configurator for more wiring diagrams or call technical support for assistance.

Power to/from PE653RC

NOTE: Contact Tech Support at Intermatic for additional diagrams.



Figure 3-4. Wiring 240V incoming power to PE653RC.



