



*Anything else is simply not **Optimum**®*



**OPT- 7790**  
**TEMPERATURE SENSOR**  
**WATER/AIR/SOLAR**  
**FOR AQUALINK® RS SYSTEMS**  
(RS 4, RS 6, RS 8, etc.)

**FOR YOUR SAFETY:** This product must be installed and serviced by a professional service technician, qualified in pool/spa installation. The procedures in this manual must be followed exactly. Improper installation and/or operation can create dangerous electrical hazards, possibly causing death, serious injury or property damage. Improper installation and/or operation will void the warranty.

**IMPORTANT NOTE:** DO NOT overtighten pipe clamp.

**The OPT- 7790 Water/Air/Solar temperature sensor can be used to replace the following Jandy Replacement Kits (R-Kits):**

- 7784 -- Air/Solar Temperature Sensor Kit**
- 7786 -- Air/Water/Solar Temperature Sensor Kit**
- 7790 -- Air/Water/Solar Temperature Sensor Kit**
- 7791 -- Air/Water/Solar Temperature Sensor Kit**

## WARNING

**If the information in these instructions is not followed exactly, an electrical hazard may result, causing property damage, personal injury or death**

### A: Sensor Installation

**IMPORTANT:** *Turn off all power at the circuit breakers. If the equipment is below the pool, turn off any valves to prevent pool water from draining.*

For water temperature sensor:

- 1 Loosen the clamp and remove the old Water Temperature Sensor. (For a new installation Drill a 3/8" hole in the pipe between the filter pump and the filter.).
- 2 Ensure the o-ring on the sensor and insert the sensor into the pipe.
- 3 Tighten the pipe clamp around the sensor. Be sure the wire is not under the pipe clamp or pinched.

For air temperature sensor:

- 1 Install the Air Temperature Sensor in a convenient location exposed to shaded outdoor air temperatures.
- 2 DO NOT place the sensor in direct sunlight.

For solar temperature sensor:

- 1 Install the Solar Temperature Sensor next to the solar panels.
- 2 DO NOT place the sensor in the pipe or in direct sunlight.

### B: Sensor Wiring

- 1 Run the sensor wire to the AquaLink RS Power Center. **Be sure to run the wire in the low voltage raceway (See wiring diagram on Power Center door).**
- 2 Remove the green 10-pin terminal bar from the Power Center Board.
- 3 Connect the temperature sensor wires to the green 10-pin terminal bar in the positions indicated on the wiring diagram located on the door of the Power Center.
- 4 Replace the green 10-pin terminal bar on the Power Center Board.
- 5 Restore power to the system and check for normal system operation.

**IMPORTANT:** Determine the length the sensor wire needs to be. Cut the end of the wire off, DO NOT splice this wire.