

# **ELECTRICAL CONNECTIONS**

## **FOR POOL HEATER MODEL TM121T / WCC115T**

### **Power to the Pool Heater**

The AQUEFIER Pool Heater requires its own **230-volt, 50-amp** circuit with a breaker, and a ground connection. **The 50-amp breaker is for the Pool Heater only.** The Pool Heater grounding conductor shall be the same size or larger than the live power supply conductors.

Use a length of 3-wire #8 gauge watertight flexible conduit to connect to the Pool Heater cabinet. Remove the front door on the Pool Heater. Insert the watertight flexible conduit into the Pool Heater cabinet through the openings provided at the right /front corner of the cabinet, just above the “water out” pipe. Remove the control box cover panel, strip back the wires, and connect directly to the **compressor contactor** inside the control box. Ground the heat pump per local codes.

Once you have connected L1, L2, and ground, replace the electric cover and the front door to the Pool Heater.

### **Start-up**

You must first turn on the pool water pump and allow it to circulate for a few minutes. Place the **50-amp Breaker** in the “on” position. Once power is applied to the Pool Heater, the LED display will flash “888” after a few seconds the LED display will go blank and a few seconds after that the LED display will come back on and give you the current water temperature. By holding down the ***increase button*** you can bring on the Pool Heater. Once you increase the desired temperature over the actual pool water temperature the fan will come on and after five (5) minutes the compressor will start. Now that you have the unit running in the pool mode only it is important to read the owners manual for the Digital Controller, this will allow you to learn about all the other features offered.

This Pool Heater is to be installed in accordance with Article 680 of the National Electrical Code, ANSI/NFPA 70, and with the requirements of the authority having jurisdiction.

**Bonding to Pool Steel:** Electrical corrosion, known as electrolysis, will occur if the heater is not bonded to the pool reinforcement steel. Most local codes also require that the water pump be bonded. Connect using a #8 gauge or larger solid copper wire to bond the cabinet to the pool reinforcement steel.