# Quick Start Guide (Air Source)

Energizing Heat Pump

Turn power on at external fuse box or breaker disconnect.
- Controller performs a lamp test.
- The display reads **888**.
- Controller then displays as normal.

Display Lock

The heat pump has a display lock to protect against inadvertent setting changes. To activate display and controls, slide finger across the controls as shown from left to right.
- The code **UnL** will briefly appear, then the set temperature or mode will display.
- This is different than a user-lock which requires a pass code. See manual for more information on user locks.
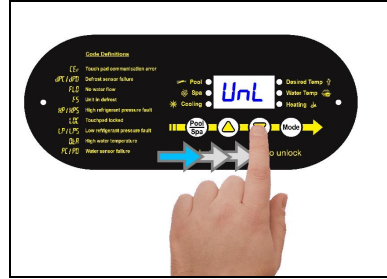
Control Panel

The following information outlines the operation for a standard installation.
- Control Buttons will operate differently for custom installations; such as a heat pump connected to an external controller.

Buttons	Description
Display Lock	Sliding your finger across the buttons from left to right will temporarily disable the display lock.
Pool / Spa	Select either the pool or the spa thermostat.
Up Arrow	Used to increase temperature set point and navigate though menu options.
Down Arrow	Used to decrease temperature set point and navigate though menu options.
Mode	Select heat pump's operating mode.

Indicators	Description
Pool	The Heat Pump is referencing the pool thermostat.
Spa	The Heat Pump is referencing the spa thermostat.
Heating	Indicates the unit is heating the water. Please note - the compressor must be operating before this light will illuminate.
Cooling	Indicates the unit is cooling the water. Please note - the compressor must be operating before this light will illuminate.
Water Temp	Indicates current water temperature.
Desired Temp	Indicates temperature set point is displayed. This is displayed when "UP" or "DOWN" is selected.

Display	Description
75	The heat pump is on and displaying the current water temperature. In this example 75° F is displayed.
FLO	No water flow is detected. The filter pump is off or heat pump is not receiving correct water flow.
OFF	The heat pump has been turned off via the mode selector button or the temperature set point has been lowered below 45° F.
888	The control program is initializing. This displays only as power is applied to the heat pump. The program version number will then be displayed.

Setting Operating Mode

Heat Mode

Cool Mode

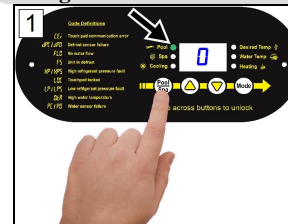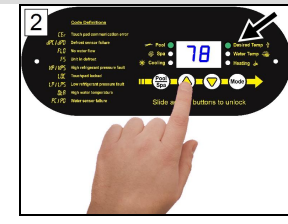**Automatic Heat / Cool Mode**

Deactivate Heat Pump

Heating / Cooling modes only available on select equipment. Confirm heat pump features before setting a mode.
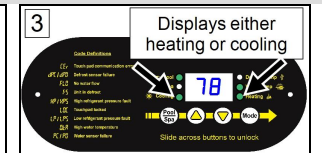
Setting Thermostats

1. Select "POOL" or "SPA"

2. Press "UP" or "DOWN" to the desired temperature.

3. Displays either heating or cooling

- The heating indicator will illuminate when heating the water.
- The cooling indicator will illuminate when cooling the water.

Initial Heating Recommendations

The following recommendations will reduce the amount of time required to heat a pool. **If unsure of equipment heating capability, review equipment data plate.**

1. Confirm heat pump mode has been set to **HEA**.
2. Set thermostat to desired water temperature.
3. Temporarily override the filter pump's time-clock for continuous operation.
   - This will allow the Heat Pump the time required to heat the water at start-up.
   - After the water has reached the desired temperature, the time-clock can be reset to normal operating time-frames.

Initial Cooling Recommendations

The following recommendations will reduce the amount of time required to cool a pool or cold plunge application. **If unsure of equipment cooling capability, review equipment data plate.**

1. Confirm heat pump mode has been set to **COO**.
2. Set thermostat to desired water temperature.
3. Temporarily override the filter pump's time-clock for continuous operation.
   - This will allow the Heat Pump the time required to cool the water at start-up.
   - After the water has reached the desired temperature, the time-clock can be reset to normal operating time-frames.

Condensation

After the heat pump has been running for some time, water may be seen around the unit. This is condensation produced as a normal by-product of transferring heat from the air to the pool or spa. Quantities of 8 to 10 gallons per hour are not uncommon when the humidity is high. Conversely, a low ambient humidity condition may result in no condensation.

Conventional Pool Blankets

A pool blanket can assist the heater to maintain water temperature while significantly reducing heating costs. Conventional blankets, commonly referred to as "Solar Blankets", consist of a thin plastic-like membrane that floats on the water surface. To be effective solar blankets are physically placed over the water surface when the pool is not in use.

⚠️ WARNING - Failure to heed the following may result in injury or death.
   - Improperly used, Pool-Spa solar blankets can become a drowning risk to people and pets. Solar blankets are not safety covers. They are not designed to support the weight of a person or pet. Never enter a pool until the solar cover is completely removed. Under no circumstances should anyone swim under the blanket. Follow all safety recommendations of the blanket manufacturer.

Pools typically lose 50% of the heat placed in the pool by the heater and / or sunlight.
   - Blanketed pools will typically lose only 3° - 4° F of heat per night.
   - This is compared to a typical heat loss of 8° - 10° F for a non-blanketed pool.

Liquid Blankets

For those who want to save on heating costs, but do not want the bother and potential dangers of a conventional blanket, a liquid blanket can be a viable alternative. A liquid-blanketed pool on average losses only 30% of its heat gain overnight. However, strong winds can reduce the effectiveness of liquid blankets. Check your pool dealer / supplier for more information on pool blankets and liquid blankets.
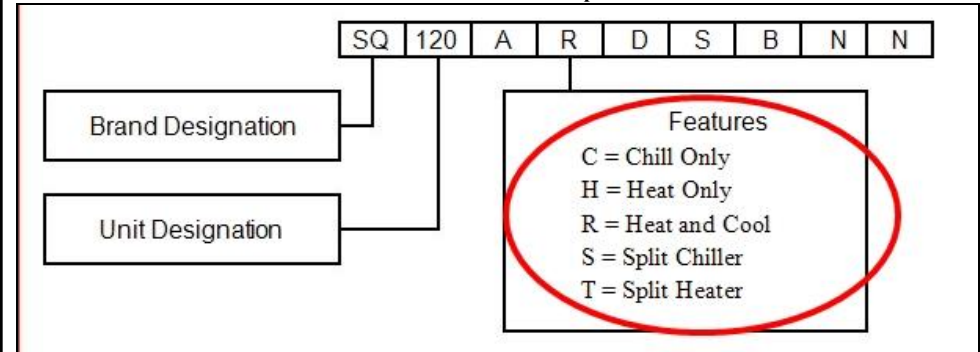
Identifying Model Specifications

1. Find Data Plate - The data plate is usually posted on the side of the equipment or on the control panel access plate.
2. Find the model number on the data plate. The first letters and numbers indicate the model type.
3. The complete model number identifies the equipment's features.

Data Plate Example

Model Number Example

| | | SQ | 120 | A | R | D | S | B | N | N |

Brand Designation

Unit Designation

Features
C = Chill Only
H = Heat Only
R = Heat and Cool
S = Split Chiller
T = Split Heater

Contacting AquaCal AutoPilot, Inc.

For further assistance, please contact the installing dealer or contact AquaCal AutoPilot, Inc. for a service partner in your area. To better assist you, please have the heat pump model and serial number available.

Website	www.AquaCal.com
Request Service Online	www.AquaCal.com/request-heat-pump-service/
Phone	(1) 727-823-5642
Hours	8-5 pm, Eastern M-F

Additional Information

Please go online at www.AquaCal.com for additional information:
   - Installation Instructions
   - Maintenance Instructions (including winterizing)
   - Equipment Specifications
   - Troubleshooting