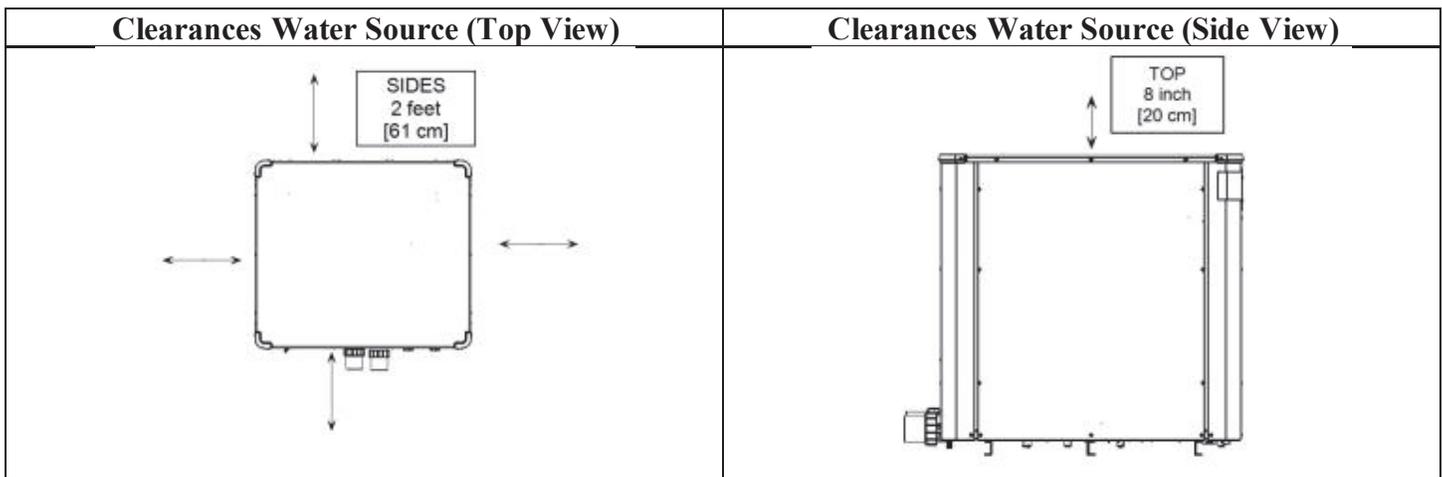


- Confirm installation kit with P/T ports, if applicable, and balancing/ isolation valves are installed in the proper location.
 - Please visit for Water Source: https://www.aquacal.com/wp-content/uploads/manuals/landingpage/water_source_installer_hp9/content/resources/topics_hp7_hp9_hp10/4%20installation%20hp9/clearances2.htm



- Initiate flow, open isolation valves halfway, and check for external water leaks.
- With breakers off, measure incoming voltage at breaker and match to unit data plate.
- Remove heat pump electrical access panels and with breakers off check/ snug/ tighten all line and load connections at contactors and fan relay.
- Move transformer tap to match measured site voltage if necessary.
- Apply power and check that ICM monitor settings are at the factory defaults (GBB and WS10 only).

Do not modify factory default settings.

Voltage	Volt Setting	Under	Over	Underbalance	Range
B	220	9%	14%	5	200-251
G	460	10%	10%	5	414-506

- Visually inspect condensers, unions, and quest nut fittings for water.
- Perform final water flow balancing and mark correct Delta-T on plumbing with a paint pen.

Please visit for Delta T Water Source Chart Below:

https://www.aquacal.com/wp-content/uploads/manuals/landingpage/water_source_installer_hp9/content/resources/topics_hp7_hp9_hp10/3%20maintenance/adjusting%20water%20flow%20using%20delta-t.htm

HEAT EXCHANGER TYPE	MODEL	SOURCE-SIDE	POOL-SIDE
Titanium pool-side and source-side exchangers	WS03	1° to 5° F (.5° C to 2.8° C)	2° to 4° F (1.1° C to 2.2° C)
	WS05	2° to 8° F (1.1° C to 4.4° C)	3° to 6° F (1.7° C to 3.3° C)
	WS10	5° to 12° F (2.8° C to 6.7° C)	6° to 14° F (3.3° C to 7.8° C)
Titanium pool-side exchanger and cupronickel source-side exchanger	WS03	6° to 8° F (3.3° C to 4.4° C)	1° to 3° F (.5° C to 1.7° C)
	WS05	7° to 13° F (3.9° C to 7.2° C)	2° to 6° F (1.1° C to 3.3° C)
	WS10	6° to 11° F (3.3° C to 6.1° C)	6° to 14° F (3.3° C to 7.8° C)

A flow meter is recommended for the main trunk line. If present, record the current flow through the heaters. ____ GPM, and label plumbing at flow meter with a paint pen. "Maintain ### GPM through heat pumps." (See owners manual for required flow rate.)

Is Multi-Unit Mode in use? Yes No

Confirm proper operation of Multi-Unit Mode:

Have site personnel cycle the main circulation pump to confirm that units read "FLO" when the pump is off. If there are elevation issues which may result in error codes, recommend installation of an optional flow switch (AquaCal Part #0040S) and provide an estimate for cost of installation, if appropriate.

With the compressors in all heat pumps on site running, measure line voltage at contactor and record:

L1 to ground _____

L2 to ground _____

L3 to ground _____

L1-L2 _____

L1-L3 _____

L2-L3 _____

Verify minimum voltage requirements are met per chart.

Voltage	Volt Setting	Min	Max
B	220	200	251
G	460	415	506

Low Voltage Reading:

Transformer Output _____

Measure and record **Compressor Amperage:**

Compressor Amps: L1 _____ L2 _____ L3 _____

Record high and low refrigerant pressures, superheat, and sub cooling:

HP _____

LP _____

SH _____

SC _____

Measure and record Delta-T

Pool Water Temperature: Inlet _____ Outlet _____

Ambient Temperature: Inlet _____ Outlet _____

Source Temperature, Inlet _____ Outlet _____

Comments:

Unit start up and commission completed by:

Name: _____ Company: _____

Signature: _____ Phone: _____

Send completed form/screenshots to spof@aquacal.com