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**CAPACITY TESTS OF A HEAT SIPHON HEAT PUMP POOL HEATER  
MODEL NUMBER Z700HP SERIAL 11L076**

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**General**

This Report gives the results of a High and Low Temperature Capacity Tests for a Heat Siphon Heat Pump Pool Heater Model Z700HP. The work was authorized by Quote No. 500352730 and testing was coordinated through client's representative, Mr. Nathan Yacobucci.

The client supplied the sample, which was assumed to be in new condition.

**Test Method**

The Capacity Tests were conducted in accordance with ANSI/ASHRAE Standard 146-2006, and AHRI Standard 1160(I-P)- 2009.

The pool heater had water piped to it and psychometric samplers were put next to the unit to measure the ambient temperature.

**Results of Capacity Tests Model Z700HP**

	High Temperature	Low Temperature
<b>Air Temperatures, °F Adjacent to Inlet of Test Unit</b>		
Indoor, Dry-Bulb	80.87	49.77
Indoor, Wet-Bulb	71.32	44.54
Barometer, Hg	28.664	28.643
<b>Water Temperatures, °F</b>		
Water Temperature Inlet	79.88	79.98
Water Temperature Outlet	84.05	82.91
Water Flow rate, GPM	61.073	61.095
<b>Electrical Input</b>		
Test Voltage, volts	236	236
Line Current, amps	29.5	27.7
Power Input, watts	6,592	6,168
<b>Performance</b>		
Total Capacity, Btuh	127,700	89,713
Coefficient of Performance	5.68	4.26

**Conclusion**

The results of these tests are for technical evaluation by United States ThermoAmp, Inc only and are applicable only to the specific test specimens described.

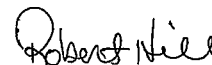
Date of Tests: January 17, 2012

Tests Supervised by:



Blaise Cotogno  
Technician

Report Approved by:



Robert Hill  
Project Engineer