

# Certificate of Product Ratings

**AHRI Certified Reference Number: 5339330**

Date: 1/24/2013

†Status: Active

**Product: Water/Brine to Air Heat Pump Packaged Unit**

**Model Number: TVT-048-1\***

**Manufacturer: TERRA-THERM INC.**

**Trade/Brand name: TTHERM GEO**

Rated as follows in accordance with ANSI/AHRI/ASHRAE/ISO Standard 13256-1 for Water-to-Air and Brine-To-Air Heat Pumps and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Air Flow Rate: 1600.0 / 1600.0 Heating Air Flow Rate: 1500.0 / 1500.0

**WLHP (Water-Loop Heat Pumps) Full Load**

Cooling Capacity(Btuh)  
Cooling EER Rating(Btuh/watt)  
Cooling Fluid Flow Rate(gpm)  
Heating Capacity(Btuh)  
Heating COP(watt/watt)  
Heating Fluid Flow Rate(gpm)

**Part Load**

**GWHP (Ground-Water Heat Pumps)**

Cooling Capacity(Btuh) 64200 / 64200  
Cooling EER Rating(Btuh/watt) 20.13 / 20.13  
Cooling Fluid Flow Rate(gpm) 12.00 / 12.00  
Heating Capacity(Btuh) 55700 / 55700  
Heating COP(watt/watt) 4.01 / 4.01  
Heating Fluid Flow Rate(gpm) 12.00 / 12.00

47700 / 47700  
23.71 / 23.71  
12.00 / 12.00  
37300 / 37300  
4.27 / 4.27  
12.00 / 12.00

**GLHP (Ground-Loop Heat Pumps)**

Cooling Capacity(Btuh) 58300 / 58300  
Cooling EER Rating(Btuh/watt) 15.85 / 15.85  
Cooling Fluid Flow Rate(gpm) 12.00 / 12.00  
Heating Capacity(Btuh) 44400 / 44400  
Heating COP(watt/watt) 3.55 / 3.55  
Heating Fluid Flow Rate(gpm) 12.00 / 12.00

46100 / 46100  
21.49 / 21.49  
12.00 / 12.00  
33400 / 33400  
3.67 / 3.67  
12.00 / 12.00

† Models with an 'Active' status are those that are currently in production. Models with a 'Discontinued' status are those that the manufacturer has elected to stop producing, yet stock is still available. Models with an 'Obsolete' status are those that the manufacturer is required to stop manufacturing due to an AHRI certification program test failure.

\* Ratings followed by an asterisk (\*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

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