

Certificate of Product Ratings

AHRI Certified Reference Number: 5339329

Date: 1/24/2013

†Status: Active

Product: Water/Brine to Air Heat Pump Packaged Unit

Model Number: TVT-042-1*

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: 1400.0 / 1400.0 Heating Air Flow Rate: 1312.0 / 1312.0

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) 49300 / 49300
Cooling EER Rating(Btuh/watt) 19.32 / 19.32
Cooling Fluid Flow Rate(gpm) 10.50 / 10.50
Heating Capacity(Btuh) 44600 / 44600
Heating COP(watt/watt) 4.07 / 4.07
Heating Fluid Flow Rate(gpm) 10.50 / 10.50

36400 / 36400
24.13 / 24.13
10.50 / 10.50
31500 / 31500
4.39 / 4.39
10.50 / 10.50

GLHP (Ground-Loop Heat Pumps)

Cooling Capacity(Btuh) 47600 / 47600
Cooling EER Rating(Btuh/watt) 14.93 / 14.93
Cooling Fluid Flow Rate(gpm) 10.50 / 10.50
Heating Capacity(Btuh) 35600 / 35600
Heating COP(watt/watt) 3.59 / 3.59
Heating Fluid Flow Rate(gpm) 10.50 / 10.50

37600 / 37600
21.14 / 21.14
10.50 / 10.50
28400 / 28400
4.07 / 4.07
10.50 / 10.50

† 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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