

This combination qualifies for a Federal Energy Efficiency Tax Credit when placed in service between Jan 1, 2006 and Dec 31, 2016 and used in GLHP or GWHP application point.

Certificate of Product Ratings

AHRI Certified Reference Number: 5339347 Date: 1/16/2013 †Status: Active

Product: Water/Brine to Air Heat Pump Split System, Ductless

Model Number: TST-048-1*

Indoor Model Number: TT-A-**-**-48
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

Part 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)

GWHP(Ground-Water Heat Pumps)

Cooling Capacity(Btuh) 63800 / 63800 46900 / 4690	00
Cooling EER Rating(Btuh/watt) 19.74 / 19.74 23.49 / 23.49	9
Cooling Fluid Flow Rate(gpm) 12.00 / 12.00 12.00	0
Heating Capacity(Btuh) 56000 / 56000 38500 / 3850	00
Heating COP(watt/watt) 4.02 / 4.02 4.33 / 4.33	
Heating Fluid Flow Rate(gpm) 12.00 / 12.00 12.00	0

GLHP (Ground-Loop Heat Pumps)

57400 / 57400	45100 / 45100
15.39 / 15.39	20.84 / 20.84
12.00 / 12.00	12.00 / 12.00
47700 / 47700	37700 / 37700
3.57 / 3.57	3.98 / 3.98
12.00 / 12.00	12.00 / 12.00
	15.39 / 15.39 12.00 / 12.00 47700 / 47700 3.57 / 3.57

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CERTIFICATE VERIFICATION

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ALD

Air-Conditioning, Heating, and Refrigeration Institute

CERTIFICATE NO.: 130028647519025360

[†] 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.