REZNOR®

Revision: DTHG-TSL (10-26) REV-0

Supersedes: — (Original Version)

TECHNICAL SPECIFICATIONS FOR MODEL DTHG

INDOOR COMMERCIAL/INDUSTRIAL GAS-FIRED DOCKED TRAILER HEATER



Table of Contents

Unit Sizes . . . 2
Features . . . 2
Factory-Installed Options . . . 2
Field-Installed Options . . . 2
Technical Data . . . 3
Certification . . . 3
Installation Codes . . . 3
Dimensions . . . 4
Weights . . . 4
Clearances . . . 5
Unit Location . . . 5
Halogenated Hydrocarbons . . . 6
Gas Supply Pressure . . . 6
Gas Supply Piping . . . 6
Electrical Connections . . . 7
Vent Connections . . . 7

In keeping with our policy of continuous product improvement, we reserve the right to alter, at any time, the design, construction, dimensions, weights, etc., of equipment information shown here.

TECHNICAL SPECIFICATIONS—CONTINUED

Unit Sizes

These units are available in one unit size based on 115,000 BTUh input.

Features

- Voltage/phase/Hz options: 208/1/60, 240/1/60, 480/1/60, and 600/1/60
- Factory-equipped for use with natural gas (propane conversion kit provided with each heater)
- 82% thermal efficiency
- Rapidly heats cold trailers for faster and safer loading and unloading
- FAN ONLY operation provides air circulation inside hot trailers
- No loading dock operational impact with minimal intrusion in door space
- Simple wall switch activation
- Flexible canvas discharge nozzle reduces potential of damage from accidental forklift contact
- Painted galvanized-steel cabinet with glossy, scratch-resistant paint scheme
- Stainless steel heat exchanger
- Vibration- and noise-isolated fan motor designed for low-noise operation
- Full fan guard
- High-temperature limit control with automatic reset and air-proving switch protection
- POWER ON green indicator light
- Simple installation and operation

Factory-Installed Options

Option	Description
AK2	208/1/60 voltage
AK3	240/1/60 voltage
AK9*	480/1/60 voltage
AK10*	600/1/60 voltage
*Requires field-installation of the factory-wired transformer.	

Field-Installed Options

Option	Description
CC1	Vent cap, alumnized steel
CC21	Vent cap, stainless steel
CE1	Manual shutoff valve
DJ20	High-elevation pressure switch

Technical Data

Parameter	Voltage				Unit of Measure
	208	240	480	600	
	Value				
Input heating capacity	115,000				BTUh
	33.7				kW
Output heating capacity	94,300				BTUh
	27.6				kW
Gas connection	1/2				inch
Vent connection diameter	5				
Control amps, 24V	1.0				amp
Full Load Amps (FLA)	5.6	5.9	3.1	2.5	
Minimum Circuit Amps (MCA)	7.0	7.4	3.9	3.1	
Maximum Overcurrent Protection (MOP)	15.0				
Normal power consumption	353	320	580	560	watt
Discharge air temperature rise	65				°F
	36				°C
Air volume	1300				CFM
	2210				meter^3/hour
Fan motor power	530				watt
Fan motor speed	2500				RPM
Fan diameter (approximately)	12-1/4				inch
	310				mm

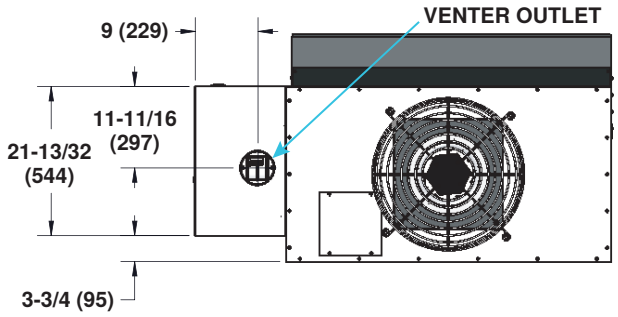
Certification

This unit is listed by Intertek for use in industrial and commercial installations in the US and Canada.

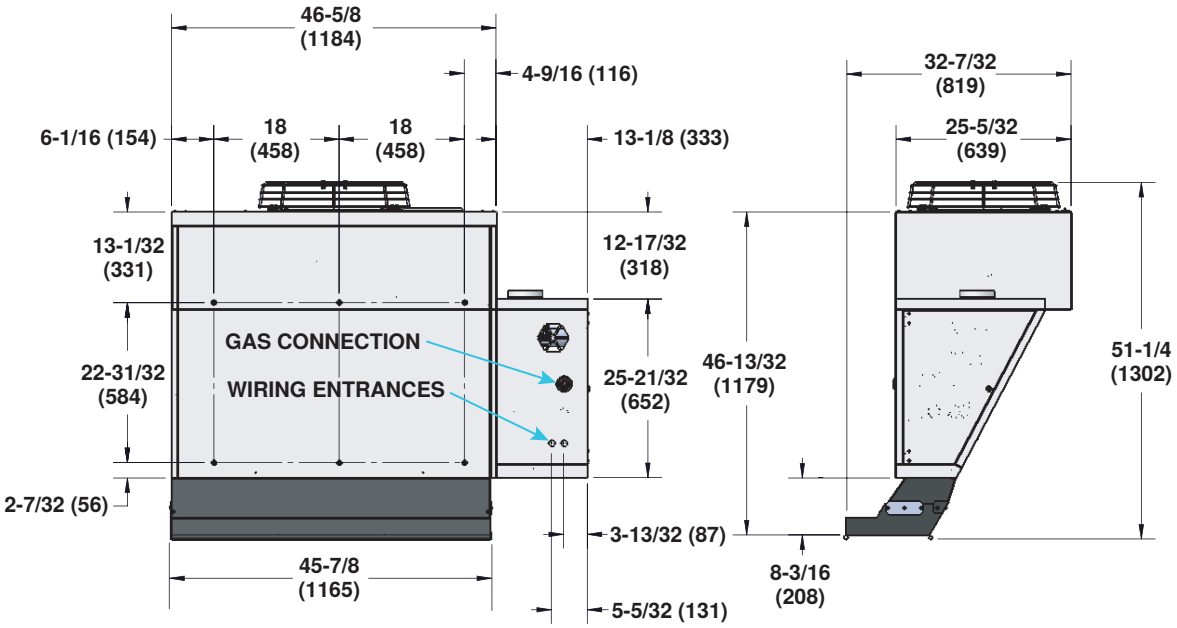
Installation Codes

This unit must be installed in accordance with local building codes. Local authorities having jurisdiction should be consulted before installation is made to verify local codes and installation procedure requirements.

Dimensions



TOP VIEW



FRONT VIEW

SIDE VIEW

Weights

⚠ DANGER ⚠

Ensure that any lift or hoist used to lift the unit is adequate to support the weight of the unit with packaging (approximately 429 pounds (195 kg)). Ensure that the support structure for mounting the unit is adequate to support the weight of the unit without packaging (approximately 327 pounds (149 kg)).

Clearances

The unit must be located so that clearances are provided for with regards to inspection and service and for proper spacing from combustible construction. Clearance to combustibles is defined as the minimum distance from the unit to a surface or object for which it is necessary to ensure that a surface temperature of 90°F (50°C) above the surrounding ambient temperature is not exceeded.

Unit Surface	Minimum Clearance (Inches (mm))
Top (from fan guard)	36 (915)
Control side	21 (534)
Non-control side	1 (26)
Back (non-discharge side)	
Front (discharge side)	2 (51)
Bottom*	1 (25)
*Suspend the heater so that the bottom is a minimum of 5 feet (1 .5 meters) above the floor	

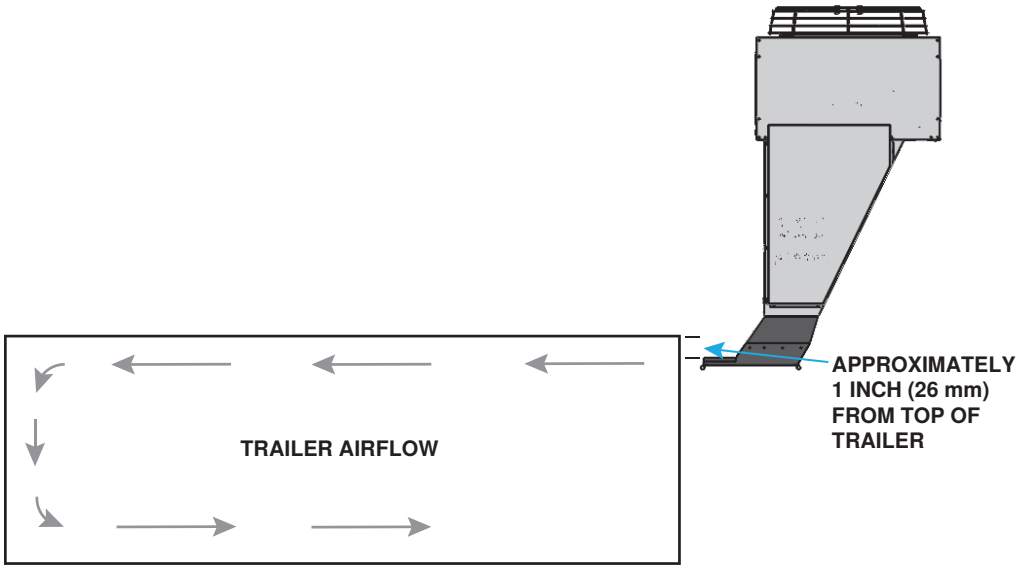
Unit Location

⚠ WARNING ⚠

While in operation, the unit is hot and may cause burns if touched. Suspend the heater a minimum of 5 feet (1.5 meters) above the floor.

⚠ CAUTION ⚠

Do not locate the unit where it may be exposed to water spray, rain, or dripping water.



Halogenated Hydrocarbons

Halogenated hydrocarbons are a family of chemical compounds characterized by the presence of halogen elements (fluorine, chlorine, bromine, etc.). These compounds are used in refrigerants, cleaning agents, and solvents and are heavier than air, a fact that should be kept in mind when determining the installation location of heaters and building exhaust systems.

⚠ CAUTION ⚠

CORROSION HAZARD: Halogenated hydrocarbons, when exposed to flame, precipitate with any condensation present in the heater to form hydrochloric acid, which readily attacks all metals, including 300 grade stainless steel. Care should be taken to separate these vapors from the combustion process. An outside air supply MUST BE provided to the burner whenever the presence of these compounds is suspected.

Gas Supply Pressure

- The unit is equipped for a maximum gas supply pressure of 1/2 psi, 3.5 kPa, or 14 IN WC for natural gas or propane. The minimum supply pressure, as measured while the unit is operating at full fire, is 5 IN WC for natural gas or 11 IN WC for propane.
- Supply pressure higher than 1/2 psi requires the installation of an additional service regulator external to the unit.
- **Pressure testing supply piping:** For test pressures ***above*** 1/2 psi, disconnect the heater and manual valve from the gas supply line to be tested and cap or plug the supply line. For test pressures ***below*** 1/2 psi, before testing, close the manual valve on the heater.

Gas Supply Piping

- All piping must be in accordance with requirements outlined in the *National Fuel Gas Code* (ANSI/Z223.1, latest edition) or the *Natural Gas and Propane Installation Code* (CSA B149.1, latest edition).
- The heater is orificed for operation with natural gas having a heating value of 1,050 (±50) BTU per cubic foot or with propane gas having a heating value of 2,550 (±100) BTU per cubic foot. Sizing of gas supply lines depends on piping capacity and is based on cubic feet per hour based on a 0.3 IN WC pressure drop, a 0.6 specific gravity for natural gas at 1,050 BTU per cubic feet, and a 1.6 specific gravity for propane at 2,550 BTU per cubic feet. If the gas at the installation does not meet this specification, consult the factory for proper orificing.
- Variables for sizing gas supply lines are listed in the table below. When sizing supply lines, consider the possibility of future expansion and increased requirements. Refer to the *National Fuel Gas Code* for additional information on line sizing.

Pipe Length (Feet)	Natural Gas						Propane					
	Pipe Diameter (Inches)											
	1/2	3/4	1	1-1/4	1-1/2	2	1/2	3/4	1	1-1/4	1-1/2	2
	Cubic Feet per Hour											
20	92	190	350	730	1100	2100	56	116	214	445	671	1281
30	73	152	285	590	890	1650	45	93	174	360	543	1007
40	63	130	245	500	760	1450	38	79	149	305	464	885
50	56	115	215	440	670	1270	34	70	131	268	409	775
60	50	105	195	400	610	1105	31	64	119	244	372	674
70	46	96	180	370	560	1050	28	59	110	226	342	641
80	43	90	170	350	530	990	26	55	104	214	323	604
90	40	84	160	320	490	930	24	51	98	195	299	567
100	38	79	150	305	460	870	23	48	92	186	281	531
125	34	72	130	275	410	780	21	44	79	168	250	476
150	31	64	120	250	380	710	19	39	73	153	232	433
175	28	59	110	225	350	650	17	36	67	137	214	397
200	26	55	100	210	320	610	16	34	61	128	195	372

Electrical Connections

⚠ CAUTION ⚠

- **Ensure that Ground Fault Overcurrent Protection (GFOC) and the Short Circuit Current Rating (SCCR) are adequate and provided for at the installation location.**
- **Ensure that all wiring is in accordance with the wiring diagram provided with the unit.**
- **All electrical wiring and connections, including electrical grounding MUST BE made in accordance with the *National Electric Code* (ANSI/NFPA No. 70, latest edition) or, in Canada, the *Canadian Electric Code* (Part 1, CSA C.22.1, latest edition). In addition, the installer should be aware of any local ordinances that might apply.**
- **All external wiring MUST BE within approved conduit and have a minimum temperature rise rating of 140°F (60°C). Conduit must be run so as not to interfere with the access panel.**

NOTES:

- **Check the rating plate for supply voltage and current requirements. A dedicated line voltage supply with a disconnect switch (option CP1 or CP2 or field-supplied) should be run directly from the main electrical panel to the unit.**
- **Units with option AK9 or AK10 are shipped with a factory-wired transformer that requires field-installation.**

Vent Connections

Follow the venting instructions in the installation, operation, and maintenance manual provided with the unit.

⚠ CAUTION ⚠

- **When an existing appliance is removed or replaced in a venting system, verify that the venting system is properly sized to vent the new appliance. An improperly sized venting system may result in the formation of condensate, leakage, and/or spillage.**
- **Do not intermix different vent system parts from different manufacturers in the same venting system.**

NOTE: Venting must be in accordance with local codes and with the *National Fuel Gas Code* (ANSI Z223.1) or the *Installation Code for Gas Burning Appliances and Equipment* (CSA B149.1). Local requirements supersede national requirements.

⚠ DANGER ⚠

FIRE OR EXPLOSION HAZARD

- **Failure to follow safety warnings exactly could result in serious injury, death, or property damage.**
- **Improper installation, adjustment, alteration, service, or maintenance can cause serious injury, death, or property damage.**
- **Installation and service must be performed by a qualified installer, service agency, or the gas supplier.**
- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**

WHAT TO DO IF YOU SMELL GAS

- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Leave the building immediately.**
- **Immediately call your gas supplier from a phone remote from the building. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

For more information on Reznor HVAC products:

- **Contact your local Reznor representative at 1-800-695-1901**
- **Refer to the manuals and additional consumer materials found at www.reznorhvac.com**

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