REZNOR®

Revision: DTH-TSL (10-26) REV-C

Supersedes: DTH-TSL (01-26) REV-B

TECHNICAL SPECIFICATIONS FOR MODEL DTH

INDOOR COMMERCIAL/INDUSTRIAL ELECTRIC DOCKED TRAILER HEATER

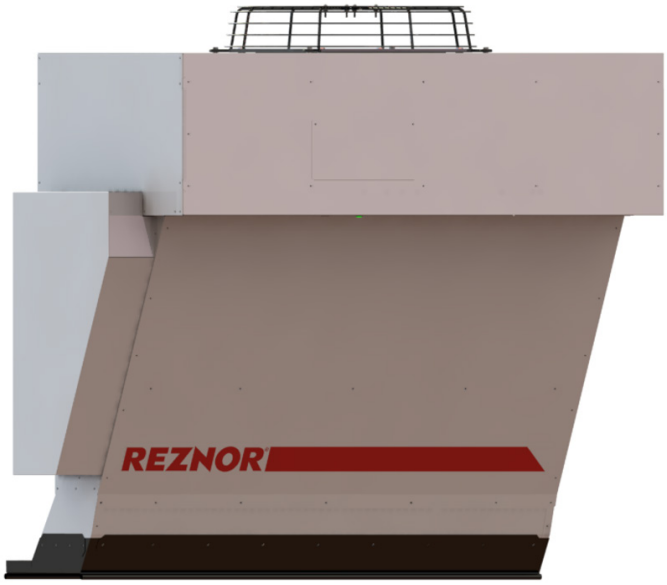


Table of Contents

Unit Sizes . . . 2
Features . . . 2
Factory-Installed Options . . . 2
Field-Installed Options . . . 2
Technical Data . . . 2
Certification . . . 3
Installation Codes . . . 3
Dimensions . . . 3
Weights . . . 3
Clearances . . . 4
Unit Location . . . 4
Electrical Connections . . . 5

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 two unit sizes based on heating capacity of 18,000 and 30,000 watts.

Features

- Voltage/phase options: 208/3, 240/3, 480/3, and 600/3
- Rapidly heats cold trailers for faster and safer loading and unloading
- FAN ONLY operation provides air circulation inside hot trailers
- No 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
- 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
- Simple installation and operation

Factory-Installed Options

Option	Description
AK7E	480/3/60 voltage
AK8E	600/3/60 voltage
AK20	208-240/3/60 voltage

Field-Installed Options

Option	Description
CP3, CP17, CP21, CP23, CP41, CP43	Disconnect switches

Technical Data

Parameter	Unit of Measure	Unit Size (kW)					
		18				30	
		Voltage					
		208	240	480	600	480	600
Heat capacity	BTUh	44,000	62,000			102,000	
	kW	13	17.7	18		30	
Full Load Amps (FLA)	amp	39.6	46.1	23.4	19.1	37.9	30.7
Minimum Circuit Amps (MCA)	amp	40.5	47.0	23.9	19.5	38.3	31.1
Maximum Overcurrent Protection (MOP)	amp	50.0	60.0	30.0	25.0	50.0	40.0
Totally enclosed fan motor size	watt	530		1000	530	1000	
Fan motor speed	RPM	2500		3060	2500	3060	
Fan diameter	inch	12					
Discharge air temperature rise	°F	35	45			50	
	°C	20	25			28	
Air volume	CFM	1200				1850	
	$meter^3$/minute	2040				3150	
Discharge air opening area	$foot^2$	0.33				0.83	
	$meter^2$	0.03				0.08	
Air velocity	FPM	3600				2200	
	meter/second	18				11	

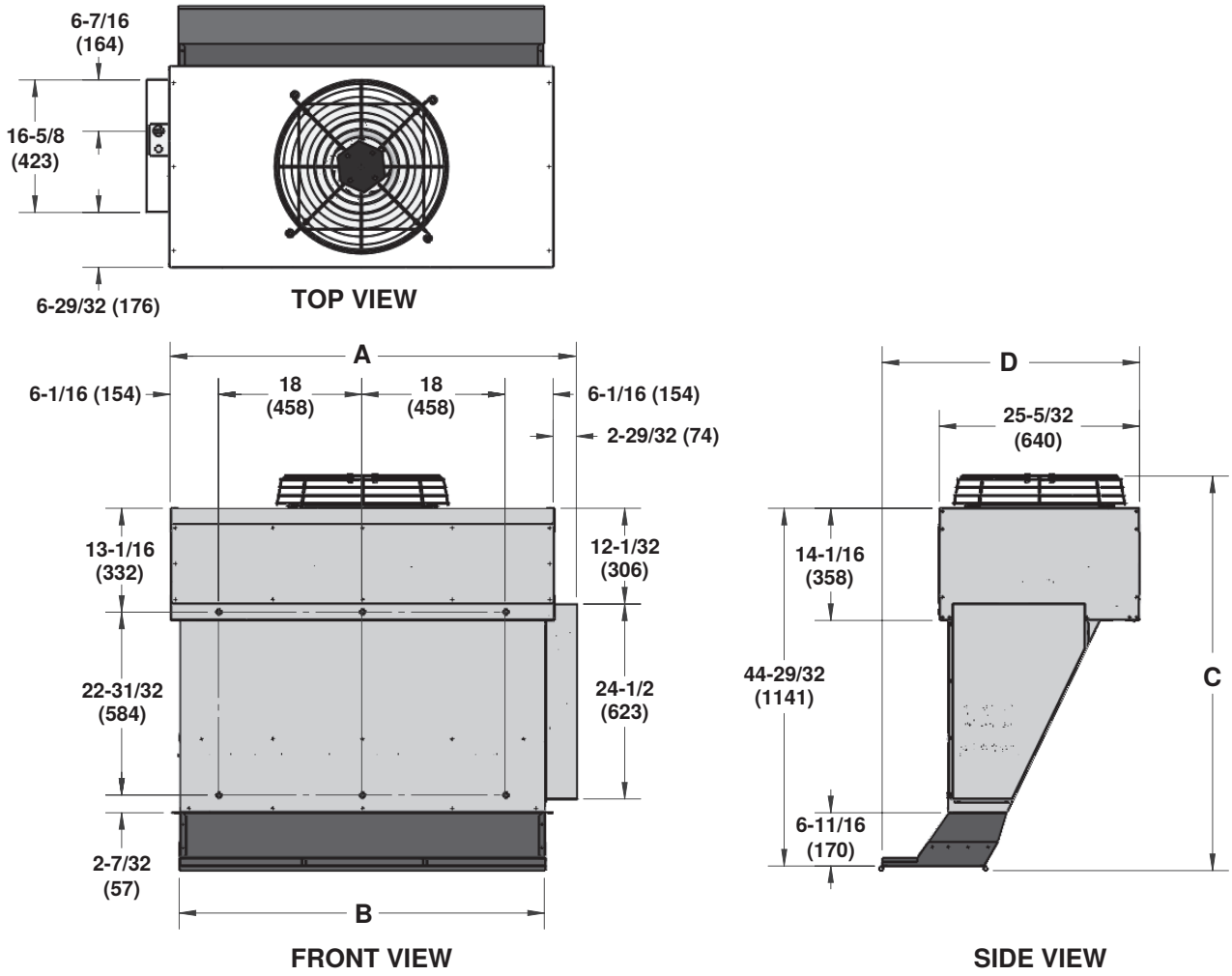
Certification

This unit is listed by Intertek to UL 2021 and CSA C22.2 #46 for use 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



Dimension (See Graphic Above)			
A	B	C	D
Inches (mm)			
51-1/32 (1297)	45-7/8 (1166)	49-9/16 (1259)	32-5/16 (821)

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 300 pounds (137 kg)). Ensure that the support structure for mounting the unit is adequate to support the weight of the unit without packaging (approximately 200 pounds (91 kg)). The transformer included with option AK8E adds an additional 75 pounds (34 kg) to both units with packaging and units without packaging.

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 117°F (65°C) above the surrounding ambient temperature is not exceeded.

Unit Surface	Minimum Clearance (Inches (mm))
Top (from fan guard)	36 (915)
Sides	21 (533)
Back (non-discharge side)	
Front (discharge side)	1 (26)
Bottom	0 (0)

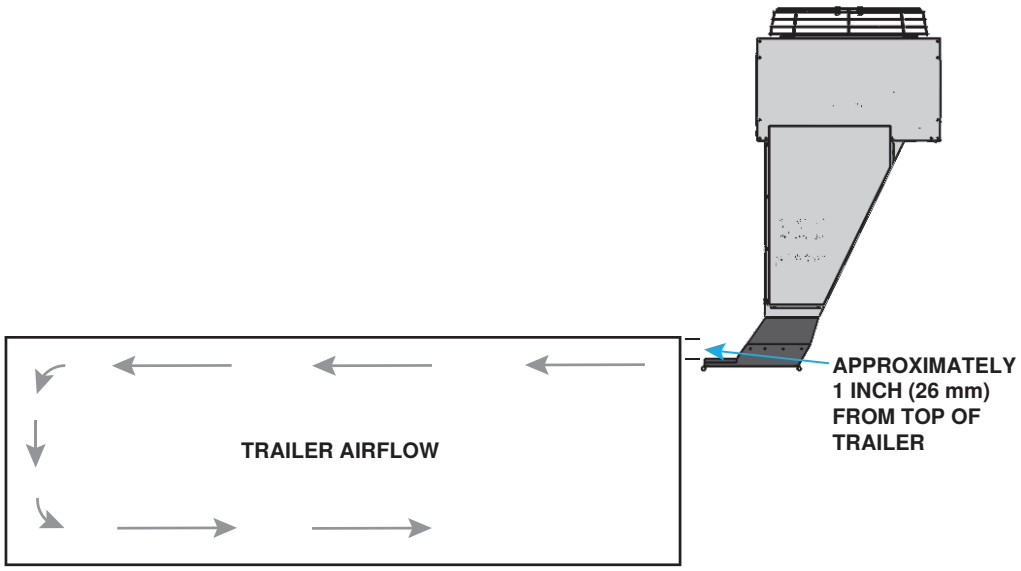
Unit Location

⚠ WARNING ⚠

While in operation, the unit is hot and may cause burns if touched.

⚠ CAUTION ⚠

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



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 CP3, CP21, CP23, CP41, or CP43 or field-supplied) should be run directly from the main electrical panel to the unit.**
- **The 600V (18kW or 30kW) unit is shipped with a factory-wired 600V transformer that requires field-installation.**

⚠ DANGER ⚠

- **This unit has hot parts inside. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **This unit is hot when in use. To avoid burns, do not let bare skin touch hot surfaces.**
- **Do not operate any unit after it malfunctions. Disconnect power at the service panel and have the unit inspected by a reputable electrician before reusing.**
- **Do not use outdoors.**
- **Do not insert or allow foreign objects to enter any unit opening as this may cause electrical shock, fire, or damage to the unit.**
- **To prevent a possible fire, do not block air intakes or exhaust in any way whatsoever.**
- **Use this unit only as recommended by the manufacturer. Any other use may cause electrical shock, fire, or damage to the unit.**

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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