

THERM DYNAMICS

TD 500-GSE AIRLINE HEAT CART

“NARROW TO WIDE BODY”

**SAFE
FLAMELESS
HEAT**

**PROGRAMMABLE
CO DETECTION**

**SET & LEAVE
TEMP CONTROL**



FEATURES

The TD 500 GSE "Flameless" Airline Heat Cart represents over 18 years of field experience, operating 24/7 in EXTREME CONDITIONS in the Gas & Oil Industry. The same SAFE FLAMELESS HEAT technology demanded by INSURERS and site SAFETY MANAGERS in these "EXTREMELY EXPLOSIVE ENVIRONMENTS" is now available for the AIRLINE INDUSTRY.

The TD 500-GSE (Heat Cart) is COMPACT, COMPLETELY PORTABLE and SAFE - providing Clean Dry Heat for aircraft, hangars and ground support equipment. It represents the "NEXT GENERATION" in PORTABLE HEAT TECHNOLOGY.

- **RELIABLE** 95% experience in Gas & Oil Industry
- **SIMPLE** Few moving parts
- **EFFICIENT** Huge "Real" Fuel Savings vs. Competition (up to 40%)
- **SAFE** Flameless Heat is captured from either a Gasoline or Diesel Engine and a "Patented" Low Pressure HYDRAULIC FLUID HEAT PLATE Plus "programmable" patent pending CO DETECTION
- **CERTIFIED** UL733-2013 & CSA B 140.8.1967(R2015) STANDARDS REPORT # 0489HH002S
- **DURABLE** Expectations are for over 12,000 hours of dependable service on heat plate
- **FLEXIBLE** One Heater for ALL Aircraft Type (Narrow to Wide Body)

Therm Dynamics Mfg. Inc.

27077 S Gayle Ave, Tea SD 57064
WWW.THERMDYNAMICS.COM

1-605-498-1050 (USA)

1-250-830-4577 (CND)

RICHARD@FREND-THERM.COM

Frend Therm Inc.

630 Montreal St., Victoria, BC V8V 4Y2
WWW.FREND-THERM.COM

©2025 by Therm Dynamics Mfg. Inc. All rights reserved.

US Patent #5,819,724, #6,186,138B1, #9,366,170B2, #9,816,425B1, and 2,730,821. Other Patents Pending.

SPECIFICATIONS

Heater 575,000 BTU/Hour
Flameless Dry Heat
captured from the
Engine and "Patented"
HEAT PLATE assembly
that agitates HYDRAULIC
FLUID in a
"LOW PRESSURE"
environment



Controls • SET and LEAVE



Air Output 5,000+ CFM and
20 inches Static Pressure

Engine ① Kubota WG3800 Gasoline Engine
② Ford V6 Gasoline Engine
③ CAT 3.4 Tier 4 Final Diesel Engine

Fuel Capacity 78 gallons

Temp. Rise 150°F+

Run Time 30 hours average

Safety SHUTDOWNS

Features

- Low Engine Oil Pressure
- High Engine Water Temp
- Low Heat Plate Oil Pressure
- High Heat Plate Oil Temperature

STROBE LIGHTS

- Engine Running
- Low Fuel Warning

Decibel 65 dB at 10 ft

Dimensions 149" L X 52.5" W X 61" H (plus stack)

Weight Dry Weight 4,100 lbs

Paint Premium Anti-corrosive Polyester
Powder Paint

Axle Torsional Suspension Axle (front and rear)
• Pneumatic Tires
• Optional Foam filled Tires

Brake Draw Bar Braking System

APPLICATIONS

- Heating for aircraft cabins, fluid lines and luggage bays
- Preheating aircraft engines and ice removal on Jet Turbine Blades
- Heating for remote "Off Gate" Aircraft, Ground Support Equipment and facilities to improve productivity and work place safety
- Aircraft deicing
- Hangar heating while servicing aircraft and other GSE equipment
- Moisture drying and ice melting of luggage bay, maintenance facilities and ground equipment

HIGHLIGHTS

- Easy access to all Maintenance Components
- Low Humidity, High CFM for drying
- CO Detection Shutdown
- Safe Flameless Heat
- Set and Leave Controls - Auto Modulation
- Unsurpassed Technical Support
- One Heater **ALL Body Sizes**

AVAILABLE OPTIONS

- Fire extinguisher
- Custom colors
- 12" ducts available
Insulated and layflat
- 12" to 8" PCA Adapter
- Full line of Diesel Flameless Heaters also available
125,000 to 1.2Million+ BTUs

Therm Dynamics Mfg. Inc.

27077 S Gayle Ave, Tea SD 57064

WWW.THERMDYNAMICS.COM

1-605-498-1050 (USA)

1-250-830-4577 (CND)

RICHARD@FREND-THERM.COM

Frend Therm Inc.

630 Montreal St., Victoria, BC V8V 4Y2

WWW.FREND-THERM.COM