



# PortaThaw<sup>®</sup>

REVOLUTIONARY PORTATHAW SAFELY STARTS MULTIPLE TRUCKS AND HEAVY EQUIPMENT IN THE HARSH EST OF WINTER CLIMATES.



- ✓ **ELIMINATE**  
OVERNIGHT IDLING
- ✓ **REDUCE**  
FUEL CONSUMPTION
- ✓ **INCREASE**  
PRODUCTIVITY

**THERMEX**  
ENGINEERED SYSTEMS INC.





# PortaThaw<sup>®</sup>

## WORLD'S FASTEST ENGINE HEATER

PortaThaw eliminates cold startup headaches and winter downtime. Starts your frozen equipment in minutes instead of hours.

<b>HEAT EXCHANGER</b>	3/4 ID progressive spiral type
<b>FUEL INPUT</b>	250,000 BTU, diesel fired
<b>CONSUMPTION</b>	Average 0.2 US gals. (0.75L) per engine start at -40°F
<b>CIRCULATING PUMP</b>	Bronze, self-priming, positive displacement
<b>BURNER</b>	Forced draft, electronic ignition
<b>POWER</b>	12VDC, 10ft. cable c/w alligator clamps
<b>CONTROLS</b>	Coolant inlet strainer, dial temp. gauge, over temp. warning light, high limit control, safety pressure relief valve.
<b>CHASSIS</b>	Protective "roll cage" skid frame
<b>FINISH</b>	Baked electrostatic powder coating
<b>DIMENSIONS</b>	11" wide X 25" high X 46" long
<b>NET WEIGHT</b>	320lbs.
<b>OPTIONS</b>	Under slung fuel tank, balanced lifting eye, burner weather hood, 24VDC power, complete mobility package.

PortaThaw connects to your engine block cooling system with a pair of quick-coupled heater hoses. A heavy-duty 12V bronze pump induces rapid circulation of the coolant through PortaThaw's specially designed heat exchanger, causing engine block to become evenly warmed from within. Temperature rise is smooth and steady with no hot spots or sudden thermal shock. The dial gauge monitors engine block temperature and safety limit control shuts down the heater when block reaches 120°F (50°C). Simply disconnect hoses and move to the next machine.

## FUEL SAVINGS IN REAL \$\$\$

The following example is based on a typical job site with 10 pieces of heavy equipment, 12 hours of overnight idling, each consuming approx. 2 Gals (7.5 Litres) of fuel per hour, at a cost of \$4.50/gal (\$1.20/litre);

**12 HOURS x \$9 PER HOUR = \$108 PER OVERNIGHT**  
**\$108 PER OVERNIGHT x 10 PIECES OF EQUIPMENT**  
**= \$1,080 SAVINGS! (PER NIGHT)**

- Times the number of job-sites,
- Plus costs of DPF muffler replacements,
- Plus costs of wear and tear,
- Plus environmental risk of unattended accidents/hose bursts,
- Plus... You get the picture!

## AVERAGE WARM-UP TIMES FOR STARTING AT -40° BELOW



D-8 Cat Dozer = 10 mins



PC-300 Komatsu Excavator = 7 mins



Cat 797D Haul Truck = 1 Hour

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