



**SMART AND  
FUTURISTIC  
GSE**

## MAK HEATER 120kW

### General

MAK Heater unit 120kW is a self-contained, trailer mounted heating unit designed for comfort conditioning of aircraft cabins. The unit is enclosed in a weather resistant canopy with easy access to major components of the system.

It produces up to 120kW(411,500 Btu/hr) heat output with a 50°(120°F ) (heat) over ambient temperature.

This unit is suitable for all code C & code D aircrafts. All systems used in the construction of the unit are simple and effective in use, easy to maintain. The unit is so designed to withstand any harsh working environment normally encountered in airport operation.



### Sources of Heat

- ▶ Blower heat of compression.
- ▶ Engine coolant heat.
- ▶ Engine exhaust heat.
- ▶ No open flame.

### Economical

- ▶ Centrifugal blower fan mounted directly to the engine flywheel requiring no clutches, gears or pulleys.
- ▶ Fewer moving parts equate to lower maintenance costs.
- ▶ High efficiency output through the use of reclaimed engine heat.
- ▶ Fuel efficient: significantly less cost than running the aircraft APU.

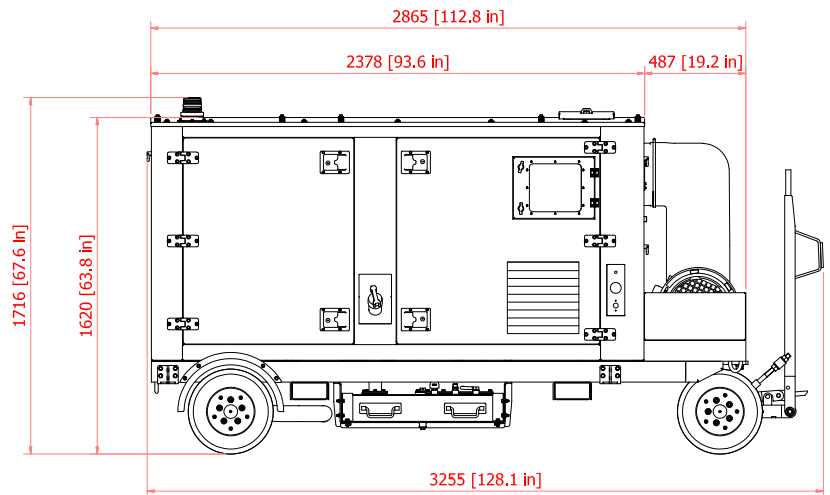
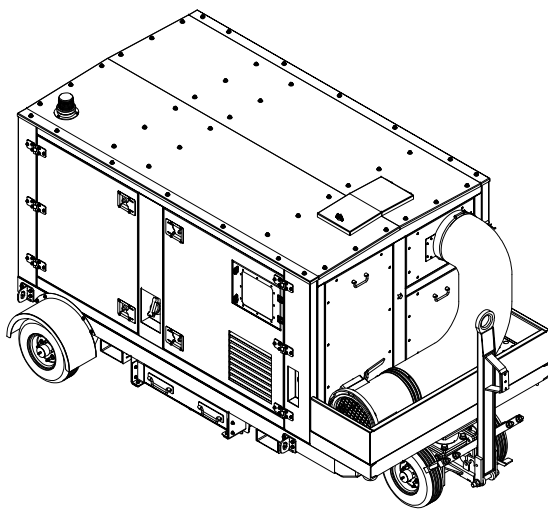
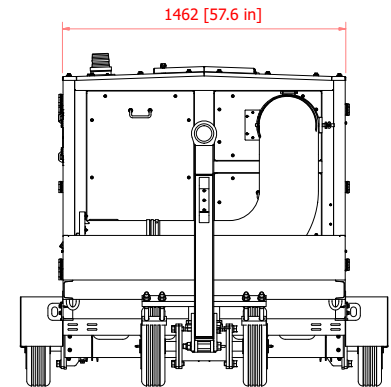
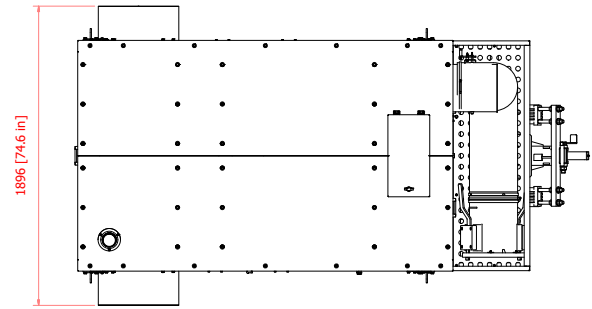
### Easy to Operate

- ▶ Designed to operate for extended periods of time unattended in an airport environment with complete digital control system.

# MAK HEATER 120kW

## TECHNICAL SPECIFICATION

Nominal Air Flow	1.89kg/s
Nominal Static Pressure	21" H2O (52.5mbar )
Nominal Heating Capacity	411,500 Btu/hr (120 kW)
Operation Temperature	-40°F (-40°C) to + 122°F (+50°C)
Relative Humidity	0-100% (Non-condensing)
Engine	Diesel powered engine, Cummins QSF2.8 -Tier 4
Continuous operation	Max. 08 hours
Output Hose	12" Dia, 30' Length Flexible insulated hose
Noise level	85 dB (A) at 5 Mtrs.
Control panel	MAK GESM V8-H
Dimensions	
Length	112.8" (2865 mm)
Width	74.6" (1896 mm)
Height	67.6" (1716 mm)
Weight	2000kg (4410 lb) Dry. ± 100 kg (220lbs)



### MONITORING

For Engine	For Air System
Low lube oil pressure	Output air temperature
High coolant temperature	Output pressure
Over speed	Blower Speed
Charging current / voltage	
Run hours	
Fuel level	

### PROTECTION

For Engine	For Air System
Low lube oil pressure	High discharge air temperature
High coolant temperature	
Over speed / under speed	
Charging fail	
Low fuel & coolant	

\* For Code E aircraft : Use Quantity 2 x 120kW Heater Unit



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