

# AIR CABIN HEATER type GR

*Aircraft Diesel Engine Air Cabin Heater type GR  
from 90 to 130kW*



- ➔ **Exclusive inductive alternator :**
- ✓ **No flame**
- ✓ **Fast warming up : 100% of power in less than 5 min.**
- ➔ **Automatic temperature regulation as per IATA AHM973**

## Main characteristics

Output air temperature	Adjustable, maximum temperature increase of 80°C
Air flow	Adjustable from 2 000 to 4 000 m <sup>3</sup> /h
Engine	Turbo charged 4 cylinders DEUTZ diesel engine
Inductive alternator	GUINAULT inductive alternator
Temperature regulation	± 2,5°C

## Characteristics across the range

Model	Thermal Power	Engine type	Inductive alternator type	Temperature increase (at max. flow)	Weight kg
GR90	90kW 307 000 BTU/h	DEUTZ BF4M1013E	GUINAULT AF250/220V1-90	60°C	2000 kg
GR130	130kW 410 000 BTU/h		GUINAULT AF250/220V1-130	80°C	



**GUINAULT SA**

PAOS La Saussaye  
F - 45590 Saint-Cyr en Val  
Tél : +33 (0) 2 38 63 84 00  
Fax : +33 (0) 2 38 69 66 22  
[www.guinault.com](http://www.guinault.com)



## Engine

- DEUTZ Turbo diesel BF4M1013E
- Water cooled engine
- Electronic engine speed regulator
- Batteries : 2 x 12V –125Ah each

## Heating

- GUINAULT inductive alternator type AF250 for main heating source
- Heat losses generated by the engine radiator and ventilator
- Temperature regulation  $\pm 2,5^{\circ}\text{C}$
- GUINAULT electronic PCB control board for temperature and air flow regulation

## Safeties

### Engine

- High temperature
- Low oil pressure
- Air filter clogging-up
- Over-speed

### And ...

- Alternator failure
- Overheating
- Temperature regulation
- Low fuel level

## Outputs

- 1 air hose length 10m -  $\varnothing$  200mm with standard coupling ISO1034

## Main assembly

- Steel frame and sound proofed polyester canopy
- Leading front axle with ball bearing
- Automatic braking when tow-bar is raised or lowered
- Air hose storage compartment
- Fuel tank 240 litres  $\rightarrow$  capacity for more than 15 hours continuous operation

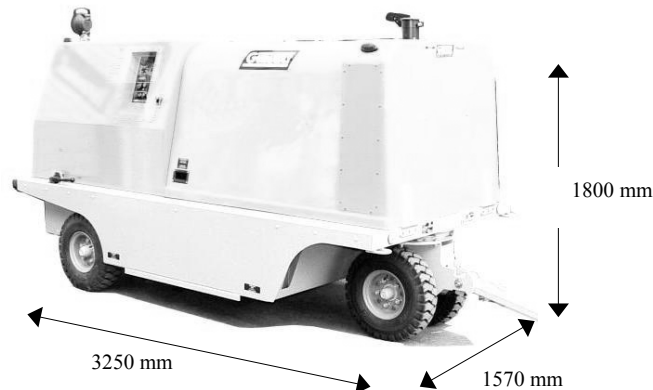
## Options

- Fresh air ventilation for cooling aircraft brake
- Additional roof beacon lights
- External additional 230V engine pre-heating kit (up to  $-35^{\circ}\text{C}$ )

## Operation

- Standard operating temperature :  $-25^{\circ}\text{C}$  to  $+35^{\circ}\text{C}$
- Automatic heating regulation in two modes:
  - Anti-freeze mode for aircraft night stop ( $T^{\circ}$  of  $+5^{\circ}\text{C}$  in aircraft cabin)
  - Passenger comfort, aircraft cabin temperature of  $+15^{\circ}\text{C}$

## Dimensions



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