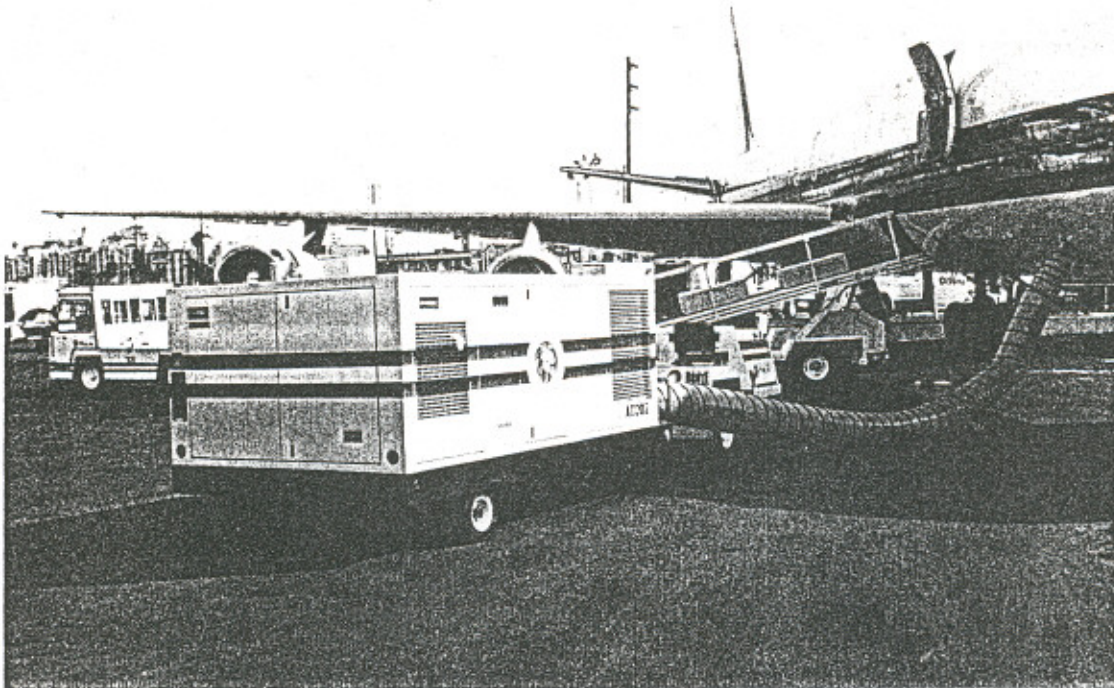


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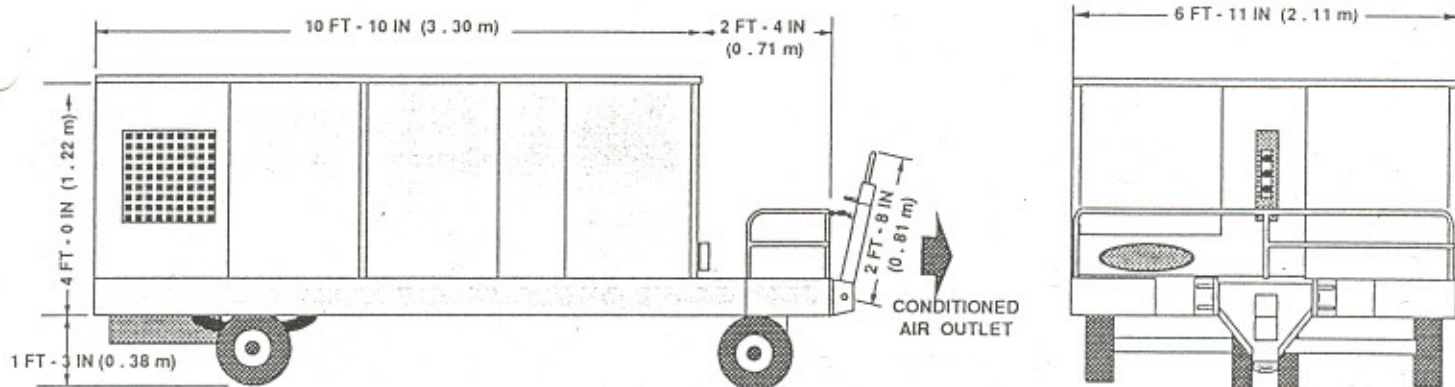
Aircraft Airconditioner/Heater



Model 1520DE

The Model 1520DE is a diesel electric aircraft airconditioner/heater and ground power unit typically used for servicing commuter and narrow bodied aircraft seating up to 190 passengers.

- The Model 1520DE is designed to provide a 75°F cabin temperature on a 110°F day, full solar load and full passenger load on aircraft up to a B757 and A310.
- The 1520DE utilizes two direct drive ten (10) ton Trane Climatuff Compressors with a hermetically sealed 3600 RPM, 460 Volt, 60 Hz, three (3) phase motor.
- The 1520DE utilizes a specially designed fuel pump which allows for continuous usage of Jet-A as well as standard #2 Diesel Fuel.
- Options for various mounting configurations are available and include skid, truck, or trailer mounting.



Model 1520DE

PERFORMANCE SPECIFICATIONS

Airflow	175 lbs/min
Air Pressure	Up to 24 Inches Water
Cooling Capacity	Up to 22 Tons
Heater (optional)	
Capacity	250,000-300,000 Btu/hr (depending on engine selection)
Temperature	130°F

ENGINE SELECTION

Cummins	A3.4T
No. of Cylinders	6 in line
Displacement	210 Cubic Inches
Horsepower	65 Bhp (1800 rpm)

Perkins	T4.236
No. of Cylinders	4 in line
Displacement	236 Cubic Inches
Horsepower	96.9 Bhp (1800 rpm)

John Deere	4.239D
No. of Cylinders	4 in line
Displacement	239 Cubic Inches
Horsepower	66 Bhp (1800 rpm)

A/C ELECTRICAL SYSTEM

Power	40 KW
Voltage	480 V
Current	60 A
Frequency	60 Hz
Phase	3
Control Voltage	120 V

CONTROLS

Heat-Vent-Cool Selection	
Blower	(On-Off)
Generator	(Run-Stop)
Circuit Breaker	

SAFETY INDICATORS

Low Oil Pressure
High Engine Temperature
Over Speed
Over Crank
Over Heater Temperature
Low Battery Voltage
Low Water Temperature

GAUGES AND METERS

Refrigerant Suction Pressure
Refrigerant Discharge Pressure
Conditioned Air Pressure
Conditioned Air Temperature
Engine Hour Meter
Engine Oil Pressure
Engine Coolant Temperature
D/C Ammeter
A/C Ammeter
A/C Volt Meter
Frequency Meter

D/C ELECTRICAL SYSTEM

Negative Ground
Engine Control
Illumination w/2 12 V Batteries