



**Aviation
Ground
Equipment Corp.**

**Pre-Conditioned
Air**

Pre-Conditioned Air Unit - Diesel

5/15/30/60/90/120 Ton



Aviation Ground Equipment Corp., offers a wide variety of Air Conditioner units to fit any application. Units are available in 5, 15, 30, 60, 90 and 120 ton. All units are available in truck-mounted or trailer-mounted configuration.

Features:

- Diesel engines from Deutz/Cummins equivalent conforming to latest EPA/Euro emission norms.
- Automatic temperature control
- Low noise level
- Meets MIL, AHM & ARP standards
- Digital control system with touchscreen panel
- Interactive GUI visible under all weather conditions
- Graphical representation of operational data
- Fault log chart & troubleshooting guide

Aviation Ground Equipment Corp.

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Prime Mover

- Engine: Deutz/Cummins or equivalent (up to Tier 4F)
- Generator: MeccAlte/Marathon or equivalent

Refrigerant System

- Compressor (Screw/Scroll): Trane/J&E Hall Screw/Copeland or Equivalent Screw compressor
- Refrigerant: R134a / R407c or Equivalent Environmentally friendly refrigerant
- Other refrigerant line components: Danfoss/Parker or equivalent

Air Flow and Temperature

- Blower: High pressure centrifugal blower
- Air output flow: 100PPM to 860PPM
- Blower output pressure: Up to 48" H₂O based on aircraft requirement
- Output temperature: 37°F to 54°F (2°C to 12°C) (can be customized to suit any requirement)

Monitoring

Following parameters are displayed through touch screen in graphical format for quick and easy interpretation.

- Engine oil pressure
- Engine coolant temperature
- Engine RPM
- Engine hours run
- Fuel level
- Battery voltage
- Output air temperature set
- Output air temperature
- Output pressure compressor
- Oil temperature
- Battery charging current
- Maintenance Schedule



STRUCTURE:

Our PCA's are built with strength to handle tough operating conditions under any weather whilst being compact and effortless maneuverable facilitating smooth towing.

Operational Protections

A. For Engine

- Low Fuel warning / shut down
- Low lube oil pressure shutdown
- High coolant temperature shutdown
- Over speed shutdown
- Low fuel shutdown
- Low Coolant indication
- Charge fail (only indication)
- Air filter clog (only indication)

B. For Generator

- Under voltage
- Over voltage
- Over load
- Over frequency
- Under frequency
- Phase reversal

C. For Refrigerant Compressor

- Refrigerant high discharge pressure shut down
- Refrigerant low suction pressure shut down
- High compressor oil temperature shut down
- Low compressor oil level shutdown
- High compressor discharge temperature shut down
- High output air temperature indication

Specifications subject to change without notice



CONTROL PANEL:

PCA Monitor - A touch screen control panel with interactive interface to showcase summary of all parameters in graphical format with built-in maintenance chart, fault log chart and troubleshooting guide.

