



Aircraft Air Conditioning Trolley (NSN–1730–99–300–7851)

A compact diesel engine powered refrigerant free air conditioning trolley that efficiently and reliably cools or heats cockpits, cabins or avionics enclosures.

- Worldwide deployable, capable of operating in altitudes from sea level to 3,500 metres.
- Delivers up to 60lb (27kg) /min non toxic conditioned air (Outlet pressure to customer specification).
- Fail-safe logical operator's control panel.
- Environmentally friendly refrigerant free air cycle cooling technology.
- Operator selected and automatically controlled delivery air temperature between 10°C and 65°C (ambient dependant).
- Refrigerant free cooling system with no contained gasses providing unprecedented stand alone reliability.
- Designed and manufactured to operate between -15°C and +55°C ambient.
- User friendly operator control station.
- Towing speed of 32kph (20mph).
- NATO standard towing eye with overrun braking system and parking brake.
- Turntable Steering on specially fabricated Heavy duty air transportable chassis with weatherproof canopy.
- Sound insulated canopy with low noise emissions.
- Can be left running unattended for up to 10 hours without refuelling.
- Diesel engine powered, multifuel capability Diesel, JetA1, Avtur, Avtag.
- Multiple aircraft compatibility including all fixed wing combat aircraft and rotary wing aircraft.



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Performance

- Variable Non toxic Conditioned air between 10°C and 65°C
- Variable delivery air mass flow rate between 30 & 60lb per minute at up to 15psi (900 mbar)
- Reliable operation in up to +55°C desert environments

Chassis

- Air transportable with sound insulated weatherproof sheet metal canopy
- Turntable steering with NATO towing eye and hand brake
- Towing speed 32kph

Electrical system

- Fail-safe cut outs and safety interlocks
- 24v DC control circuitry, oil coolers and engine bay ventilation fans
- Safety pressure relief solenoid valve

Instruments and control

- Logical multi function touch panel engine/compressor controller with integrated system monitoring and control
- Digital delivery air temperature controller
- System warning lights and indicators
- Start, run and speed selector switches
- Engine speed raise/lower switch
- System warning beacons with tactical selector switch
- Emergency Stop button
- Power On/Off key switch
- System status LEDs
- Delivery air pressure gauge

Environmental system

- Oil free screw compressor driven by turbo charged diesel engine
- Two stage forced air heat exchanger with hydraulic powered fan
- Two stage air cycle cold air unit
- High efficiency, low restriction compressor air filter with cyclonic pre-cleaner
- High efficiency delivery air cyclonic water separator

Standard equipment

- 10 metres x 102mm insulated air delivery hose with quick release connectors
- Roof hose stowage rails
- Forklift pockets and tie down points

Optional equipment

- 36 metres earth bonding reel cable
- Dual Voltage 200v 400Hz 3 phase GPU / 400v 50Hz 3 phase mains power supply powered model available

