

▶ DASS Avionics Cooling Trolley



Wing Tip Pod Air Conditioning Trolley

Our DASS avionics cooling trolley is an efficient and reliable air cooling system for ground running of ram air avionic pod turbines, capable of operating from sea level up to 10,000 feet.

- Operation in ambient temperatures from -40 to +55°C.
- Vacuum system drawing ambient air through wing tip pod and driving internal turbine cooling system, simulating in-flight ram airflow.
- Minimum 0.35 m/s volumetric airflow rate.
- Vacuum safety and shutdown protection.
- 360° inlet swivelling connection.
- Operates on dual voltage: 200v 400Hz 3 phase, 45kva ground power unit supply – 400v 50Hz 3 phase, 45kva mains power supply (diesel option available).
- Combat/warning lamps.
- 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 sound insulated weatherproof canopy.



Passenger Stairs
Belt Loaders
Cargo & Freight Vehicles
Toilet & Water Trucks
Aircraft Loaders
Fuel Tank Repair Trolleys
Heater Trolley
Air Conditioning Trolley
Maintenance Docks & Stagings
Special Projects

Remember, each piece of equipment is maintained via our through-life support and training services – wherever you are in the world, 365 days of the year.

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“ Highly innovative solutions for specialist avionics cooling ”

Performance

- Vacuum airflow for Simulated Ram Air intake via wing tip pod exhaust
- Minimum 0.35m/s volumetric airflow rate to provide 40kPa pressure drop
- Vacuum protection to prevent vacuum in excess of 55kPa(abs)
- Dual running speed for high altitude use
- 85dBa maximum noise level

Chassis

- Air transportable with sound insulated weatherproof sheet metal canopy
- Turntable steering with NATO towing eye and hand brake
- Towing speed 32kph (20mph)

Instruments and control

- Adjustable Vacuum air pressure safety switch
- Compressor oil temperature, oil pressure and Vacuum switch gauges
- System warning beacons with tactical selector switch
- GPU/mains supply, Power On & Altitude speed selector switches
- Motor start, System status lamp test & Emergency Stop bush buttons
- Hours run meter
- System status LEDs

Electrical system

- 200 Volts, 400Hz, 3 Phase supply – provided by Aircraft Ground Power Unit
- 400 volts, 50Hz, 3 Phase supply – provided by National Power Supplies
- 37kW or 45kW 3 phase compressor motor with thermistor protection and inverter speed control
- Harmonic frequency snubber assemblies
- Fail-safe cut outs and safety interlocks
- 24v DC control circuitry, oil coolers and engine bay ventilation fans
- Dual pressure switch controlled relief solenoid valve

Environmental system

- Oil free screw compressor driven by turbo charged diesel engine
- Two stage forced air to air heat exchanger with hydraulic powered fan
- Air cycle Cold Air Unit two stage turbine compressor
- Self cleaning 24 cell 95% efficient air delivery filter
- Delivery air water separator

Standard equipment

- 360° rotating air inlet boom
- 3 metres x 102mm PVC vacuum hose
- Wing Tip pod adaptor hose adaptor assembly
- 36 metres earth bonding reel cable
- Roof hose stowage rails
- Heavy duty discharge air silencers
- High capacity compressor intake vacuum filter

Optional equipment

- Diesel engine powered unit available
- Single voltage 400v 50Hz powered model available
- Pilot Earth Monitoring System connections

