



MOBILE AIR CONDITIONING UNIT & COMBO FOR AIRCRAFT CODES B TO C

ACU COMBINED WITH 400 Hz / 28 Vdc POWER SUPPLY

APU OFF

GF10 / CF10

GUINAULT combined Air Conditioning Units / 400 Hz are designed to replace an aircraft's APU and maintain the correct temperature in the cockpit and cabin during pre-flight operations, boarding and maintenance. These Units make it possible to meet the needs and requirements of code B and C civil aircraft in continental, tropical or desert climates.

GENERATING VALUE

- Limit emissions of direct pollutants on the ground
- Significant reduction of noise level on the ground
- Generate new revenue for the airport by offering an added-value service to airlines
- Significant savings in jet fuel consumption and APU maintenance for airlines
- Improve comfort and air quality on board

ADVANTAGES

- Performance and efficiency under extreme conditions
- Robust and reliable
- Simple operation
- Remote monitoring and maintenance
- Optimized maintenance access, thanks to modular construction
- Versatility

Specifications

GF10 (Diesel) / CF10 (Electric)

COMBO Option

ENGINE	Type Fuel tank capacity	Deutz TCD 2013L04-2V or TCD3.6 160 L / 43 US GAL
DIMENSIONS AND WEIGHTS	L x W x H (mm) Weight (Kg)	5660 x 2200 x 2350 mm 4500 kg (+ 500 kg for COMBO)
AIR CIRCUIT <i>* Rated conditions are: Outlet of the PCA unit +2°C/35°F Ambient conditions: DB 30°C/WB 21,8°C (50%RH) / DB 86°F / WB 71,2°F (50% RH) at sea level</i>	Airflow at rated cond.* Maximum airflow Pressure at PCA outlet Fan type	1.25 kg/s 1.3 kg/s 5500 pascal / 0.7977 Psi Centrifugal - Variable speed (VFD)
COOLING CIRCUIT & SYSTEM	Air outlet Main blower Compressor qty Refrigerant Input Power Source Compressor Condenser Expansion Evaporator	1 outlet - 10 m Centrifugal high-pressure blower with double filters mounted on the air intake 2 R513a Electrical supply from integrated diesel genset (or from 50/60 Hz main supply as an option) Semi-hermetic compact reciprocating compressor (no maintenance) Side-mounted condenser made of copper tubes and aluminum fins Electronically regulated expansion valves Copper tubes and aluminum fins
HEATING MODE (option)	Heating capacity	70 kW
AIRCRAFT POWER SUPPLY (Combo only)	400 Hz / 200 VAC 28 Vdc	90 kVA 700 / 2000 A Peak
INPUT POWER REQUIREMENT (for electric/CF10 only & GF10 with dual mode option)	Input current	< 100 A

SAFETY FEATURES

Engine

- Low oil pressure
- High temperature
- Battery charge failure
- Overspeed

Cooling system

- High-low pressure refrigerant
- Compressor overheating (KRIWAN)
- Oil level/temperature
- Air outlet overpressure

CONSTRUCTION

- Touch screen panel for easy intuitive operation and troubleshooting
- Compartment for hose storage
- Front axle with 5th wheel design (turn-table)
- Batteries: 2 x 12 V-125 Ah (24 Vdc)
- Brakes applied when tow-bar is raised or lowered
- Hot dip galvanized chassis provides excellent protection against corrosion

OPTIONS

- Heating mode
- Dual power mode: 50/60 Hz mains power input (not available for COMBO ACU-400 Hz Unit)
- 400 Hz / 200 VAC Power Supply (applicable for GF10 Diesel only)
- 28 Vdc / 200 VAC Power Supply (applicable for GF10 Diesel only)
- Cold temperature kit, engine pre-heating supplied by 50/60 Hz mains, for start-up in extremely low temperature (< - 25°C)
- Colour: other than white (RAL 9010)