



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 <i>(or from 50/60 Hz main supply as an option)</i> 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 <i>(option)</i>	Heating capacity	70 kW
AIRCRAFT POWER SUPPLY <i>(Combo only)</i>	400 Hz / 200 VAC 28 Vdc	90 kVA 700 / 2000 A Peak
INPUT POWER REQUIREMENT <i>(for electric/CF10 only & GF10 with dual mode option)</i>	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)