



MOBILE AIR CONDITIONING UNITS FOR MILITARY AIRCRAFT

ACU

GF (diesel) / CF (electric) MODELS

GUINAULT air conditioning units are designed to replace the aircraft's APU and maintain the correct temperature in the cockpit and cabin during pre-flight operations, boarding and maintenance. These three models of the GF/CF range make it possible to meet the needs and requirements of all types of military 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
- Significant savings in jet fuel consumption and APU maintenance
- Improve comfort and air quality on board

ADVANTAGES

- Performance and efficiency under extreme conditions (- 40 / + 50° C)
- Robust and reliable
- Simple operation
- Remote monitoring and maintenance
- Optimized maintenance access, thanks to modular construction

Specifications

		GF30	GF40
DIESEL ENGINE <i>(GF only)</i>	DEUTZ	TCD2013L06-2V	TCD2013L06-4V
	Minimum air flow	1.5 kg / sec	1.5 kg / sec
	Maximum air flow	4.2 kg / sec	5 kg / sec
	Number of air outlets	2	2
	Air outlet temperature <i>(at conditions 30°C / 50%RH)</i>	+ 2°C	+ 2°C
	Electrical Power Requirement <i>(for CF & GF with Dual Mode)</i>	< 200 A	< 250 A
DIMENSIONS AND WEIGHTS	Weight (Kg)	9000	10100
	Length / mm	6231	6295
	Width / mm	2664	2660
	Height / mm	3100	3000
COOLING SYSTEM	Input power source	Electrical supply from integrated diesel genset (or from the 50/60 Hz main supply as an option)	
	Compressor	Semi-hermetic compact compressor (no maintenance)	
	Refrigerant	R513a	
	Condenser	Top-mounted condenser made with copper tubes and aluminum fins. Variable speed fans (VFD controlled)	
	Expansion	Electronically regulated expansion valves	
	Evaporator	Copper tubes and aluminum fins with automatic defrosting system	
	Main blower	Centrifugal high-pressure blower with double-mounted filters on the air intake Variable speed (VFD controlled)	

SAFETY FEATURES

Engine safety

- Low oil pressure
- High temperature
- Clogged air filter
- Battery charge failure
- Overspeed

Cooling system safety

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

CONSTRUCTION

- Touch screen panel for easy intuitive operation and troubleshooting
- High-capacity fuel tank (240 to 700 liters offering 10 to 20 hours of continuous operation)
- Compartment for hose storage
- Front axle with 5th wheel design (turn-table)
- Batteries: 2x 12V-125 Ah (24Vdc)
- Brakes applied when tow-bar is raised or lowered

OPTIONS

- Heating mode
- Dual power mode: 50/60Hz mains power input
- Truck-mounted
- Cold temperature kit, including engine pre-heating supplied by 50/60Hz mains, for start-up in extremely low temperature (< - 30°C)
- Extra sound insulation
- Stanag 3548 tie down points
- Stanag 4101 towing eye