



## MOBILE AIR CONDITIONING UNIT & COMBO FOR AIRCRAFT CODES B TO C ACU COMBINED WITH 400 Hz / 28 Vdc POWER SUPPLY



# GF15 COMBO

**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

|   |                        | GF15 COMBO   |
|---|------------------------|--|
| • <b>ENGINE</b>                                       | Type                   | Cummins QSB4.5 (stage 5/Tier 4) or TCD 2013 L04 2V (Tier3)                     |
|   | Fuel tank capacity     | 160 L / 43 US GAL  |
| • <b>DIMENSIONS AND WEIGHTS</b>                       | L x W x H (mm)         | 5659 x 2200 x 2400 mm  |
|   | Weight (Kg)            | 5400 kg  |
| • <b>AIR CIRCUIT</b>                                  | Maximum airflow        | 1.5 kg/s   |
|   | Pressure at PCA outlet | 7500 pascal /1,08 Psi  |
|   | Fan type               | Centrifugal - Variable speed (VFD)   |
| • <b>COOLING CIRCUIT &amp; SYSTEM</b>                 | Air outlet             | 1 outlet - 10 m  |
|   | Main blower            | Centrifugal high-pressure blower with double filters mounted on the air intake |
|   | Compressor qty         | 2 independant cooling circuits   |
|   | Refrigerant            | R513a  |
|   | Input Power Source     | Electrical supply from integrated GPU  |
|   | Compressors            | Semi-hermetic compact reciprocating compressor (no maintenance)                |
|   | Condenser              | Top-mounted condenser made of copper tubes and aluminum fins                   |
|   | Expansion              | Electronically regulated expansion valves                                      |
|   | Evaporator             | Copper tubes and aluminum fins   |
| • <b>HEATING MODE</b> <i>(option)</i>                 | Heating capacity       | 45 kW  |
| • <b>AIRCRAFT POWER SUPPLY</b><br><i>(Combo only)</i> | 400 Hz / 115/200 VAC   | 90 kVA   |
|   | 28 Vdc (option)        | 700 / 2000 A Peak  |

## 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

### Generation 115V/400Hz

- Over-voltage
- Under-voltage
- Over-frequency
- Under-frequency
- Overload

## CONSTRUCTION

- Touch screen panel for easy intuitive operation and troubleshooting
- Compartments for hoses and cable storage
- Front axle with 5<sup>th</sup> 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
- 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)

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