Salient Features

- Diesel engines from Deutz/Cummins equivalent conforming to latest EPA/Euro emission norms
- Direct / Electric driven models
- Automatic temperature control
- Low noise level
- Meets MIL, AHM & ARP standards
- Digital control system with touchscreen panel (MAK GSEM V8-C)
- Interactive GUI visible under all weather conditions
- Graphical representation of operational data
- Fault log chart & troubleshooting guide
- MAK RDMS – Remote Diagnosis and Monitoring System (RDMS)
MAK design and manufacture Air Conditioning Units from 5TR to 150TR. Standard models are 30TR, 60TR, 65TR, 70TR, 110TR & 140TR manufactured as per commercial aircraft specifications. MAK has specially developed ACUs for corporate jets with 5TR capacity. MAK ACUs boast of 1 Lakh + hours of incident free operation and find satisfied customers among major civil airlines and defense organizations across the world.

MAK ACUs comes with a touchscreen control panel MAK GSEM V8-C and MAK RDMS-A feature rich fleet management software which transmits live operational data to a remote computer/mobile and alerts users in real-time of faults, alerts. With this software, users can plan maintenance schedules, ad-hoc service records, order spare parts... and much more, eliminating need for dedicated manpower per operation location.

**Technical Specifications***

**PRIME MOVER**
- **Engine**: Deutz/Cummins or equivalent
- **Drive**: Electrical/Direct
- **Alternator (electric drive only)**: Stamford/Marathon or equivalent

**REFRIGERANT SYSTEM**
- **Compressor (Screw/Scroll)**: Bitzer/J&E Hall Screw / Frascold or Equivalent Screw compressor
- **Condenser/ Evaporator**: Luve/Luvata or Equivalent
- **Refrigerant**: R134a / R407c or Equivalent environmental friendly refrigerant
- **Other refrigeration line components**: Danfoss/Parker or equivalent

**AIR FLOW AND TEMPERATURE**
- **Blower**: High pressure centrifugal Blower
- **Air output flow**: 100 PPM to 860 PPM
- **Blower output pressure**: Upto 48"H2O based on Aircraft requirement
- **Output temperature**: 36°F to 54°F (2°C to 12°C)
  *(can be customized to suit any requirement)*

**MOUNTING CONFIGURATION**: TOWABLE TRAILER MOUNTED / SELF PROPELLED / SKID MOUNTED FOR TRUCK / PASSENGER BOARDING BRIDGE (PBB) MOUNTED

Due to continuous development, the dimensions, layout, configuration and specifications are subject to change without notice.

**ACU OPERATIONS MONITORING**

Following Parameters are displayed through GUI touch screen in graphical format for quick and easy interpretation.
- Engine Oil Pressure
- Engine Coolant Temperature
- Engine RPM
- Fuel Level
- Battery Voltage
- Output Air Temperature
- Set output Air Temperature
- Output Pressure
- Compressor Oil Temperature
- Engine Hours Run
- Battery Charging Current
- Maintenance Shedule

**ACU OPERATION PROTECTIONS**

**A. FOR ENGINE**
- Low fuel warning / shut down
- Low Lube Oil Pressure Shutdown
- High Coolant Temperature Shutdown
- Over Speed Shutdown
- Low Fuel Shutdown
- Low Coolant Indication
- Charge Fail Indication
- Air Filter Clog Indication

**B. FOR ALTERNATOR**
- Over voltage
- Under voltage
- Over load
- Phase reversal

**C. FOR REFRIGERANT COMPRESSOR**
- Refrigerant High Discharge Pressure Shutdown
- Refrigerant Low Suction Pressure Shutdown
- High Compressor Oil Temperature shutdown
- Low Compressor Oil Level shutdown
- High Compressor Discharge Temperature shutdown
- High Output Air Temperature Indication

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**Commercial utility power as power source option**

For detailed technical specifications or any other queries please contact us

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