AIR CONDITIONING UNIT

5TR/15TR/24TR/65TR/120TR

(OTHER MODELS AVAILABLE ON REQUEST)

SMART & FUTURISTIC GSE

65TR AIR CONDITIONING UNIT
FOR NARROW BODY AIRCRAFT

5TR AIR CONDITIONING UNIT
FOR PRIVATE JETS AND REGIONAL AIRCRAFT

120TR AIR CONDITIONING UNIT
FOR WIDE BODY AIRCRAFT

Salient Features

- Diesel engines from Deutz/Cummins equivalent conforming to latest EPA/Euro emission norms
- Electric driven models
- Automatic temperature control
- Cabin heater (Optional)
- 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 (Optional)

AIR+MAK INDUSTRIES INC.

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AIR CONDITIONING UNIT

MAK design and manufacture Air Conditioning Units of various ranges like 5TR, 15TR, 24TR, 65TR & 120TR as per commercial aircraft specifications. MAK has specially developed ACU's for corporate jets with 5TR capacity. MAK ACU's boast of 1 Lakh + hours of incident free operation and find satisfied customers among major civil airlines and defense organizations across the world.

MAK ACU 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 Diesel engine upto Tier4 final
Drive	: Electrical
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"H_2O based on Aircraft requirement
Output temperature	: 36°F to 54°F (2°C to 12°C) (can be customized to suit any requirement)

Commercial utility power as power source option

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.

** Electric driven only

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
- Over frequency
- Under frequency
- 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

For detailed technical specifications or any other queries please contact us

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