

ACE-HGEU90

AIR CONDITIONING & VENTILATION UNIT



The ACE-HGEU90 Air conditioning and Ventilation Unit provides comfortable aircraft cabin temperatures in all ambient conditions for passenger, cleaning, or maintenance personnel comfort in all types of 12-40 passenger capacity commuter and corporate aircraft. Since the ACE-HGEU90 operates using flood duct air conditioning, aircraft without external connectors may be serviced.

The unit employs a 3 cylinder, 4 cycle diesel engine with integrated oil/air cooling, a 230 VAC generator, reciprocating compressor, condenser, evaporator, thermal expansion valve, blower, and air delivery system.

The conditioned air module is mounted on a trailer chassis with self-locking tow bar brake, a short turn radius fifth wheel design front axle, and 4.80-12 4-ply pneumatic tires. The trailer may be towed over paved surfaces at up to 10 mph. All controls are located to permit operation by one person. Air conditioning and ventilating modes may be selected as required on demand.

DESIGN ADVANTAGES

- **Modular design**
- **Simplified operating controls**

- **Hermetic compressor for long life and low maintenance.** The reciprocating compressor provides constant displacement with high volumetric efficiency. A pump down cycle is not required.

DESIGN FEATURES

- **R-22 high capacity refrigerant, EPA authorized for service until the year 2020.**
- **Filter/drier with fine-mesh Monel filter and desiccant cartridge to maintain a clean, dry system**
- **30 gallon capacity stainless steel fuel tank**
- **Engine shutdown safety circuit**
- **Electrostatic air inlet filters**
- **A/C start interlock**

OPTIONAL EQUIPMENT

- **Flashing beacon**
- **Solid/Foam filled tires**
- **Insulated or non-insulated air delivery hose**
- **Engine gauge package**
- **Electric resistance heater**

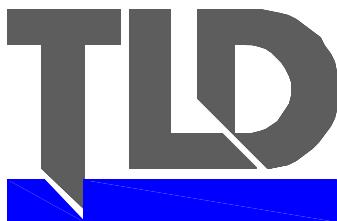
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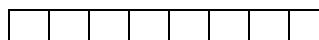
DESIGN SPECIFICATIONS

ACE Model No.:	HGEU90
Mounting	Trailer
Cooling Capacity:	
Nominal Load	7.5 Tons
Heat Rejection	90,000 Btu/Hr.
Refrigerant	R-22
Replacement Refrigerant (in service units)	SUVA 47C
Engine:	
Type	Deutz F3L1011F
Horsepower	28@1,800 Rpm
Cylinders	3
Fuel Consumption	1.5 Gal/Hr
Generator:	
Type	Stamford Newage BCI184E1R
Electrical Rating	230 VAC, 3 Ph, 60 Hz
Output	14.4 kW (18.2 kVA)
Blower:	
Type	High Pressure, Direct Drive
Fan Wheel	Radial Blade Type
Performance	1,375 Cfm @ 8 IN. SP
Motor	3,450 Rpm, TEFC Enclosure
Electrical System:	
Engine	12 VDC Neg. Ground
Compressor, Blower, Condenser Fan	230 VAC
Refrigeration System Controls	24 VAC
Fuse Requirement	30 Amp
Dimensions:	
Length X Width x Height	137 In. (3.47 m) x 66 In. (1.67 m) x 60 In. (1.52 m)
Weight	2,980 Lbs. (1,351.7 Kg.)



Revised on 3/1/03 CY

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Tolerances of mentioned data: +/- 5 %
Specifications may be altered due to a constant effort to improve performance.