

# RJ150 Mobile Air Conditioner/Power Supply



Model RJ150 Trailer Mounted

## TRILECTRON/AIR-A-PLANE:

Trilectron Industries and air-a-plane products division have led the industry in product design and innovation. The best combination of experience, new technology and customer input has resulted in a product line you can trust for your aircraft's needs.

## APPLICATION:

Completely self-contained diesel powered Air Conditioner/Power Supply unit for comfortable conditioning of regional passenger aircraft cabins. Endurance: approximately 8 hours of continuous operation per full fuel tank.

## OPTIONS:

Units can be trailer mounted for towing or truck mounted on a suitable chassis (consult factory).

### Air Conditioning:

15-ton air conditioning circuit for supply air cooling and optional 40 kW heater bank for heating

### Power Supply:

Optional Hobart Ground Power GPU-600 Solid State ground power unit suitable for simultaneous operation with pre-conditioned air.

## PERFORMANCE FEATURES:

### Proven design:

- Hermetic scroll compressor re-refrigeration circuit with oversized condensing coil
- Multi-stage electric resistance heater
- Proven Hobart Ground Power Solid State 28 VDC Rectification
- Aluminum box frame and panels
- Meets all applicable UL, NEMA, NEC, OSHA, NFPA, ASHRAE, ASME and AHM 73 & 74 standards

### Easy to Operate:

- Dual rotary switch control located on unit at operator level
- Automatic temperature controlled

### Economical:

- Hermetic compressor and direct drive blower require no clutches, gears or pulleys
- Solid state 28 VDC rectification
- Fewer moving parts equate to lower maintenance costs
- Significantly less cost than running the aircraft APU

### Durable:

- Designed to endure the rigors of the airport environment
- Easy access to all components for maintenance

Model	Cooling Capacity	Optional Heater	Optional 28 VDC	Length	Width	Height	Base Unit Weight
RJ150	15 Tons (53 kW)	40 kW	600 A continuous 2000 A peak	162" (411 cm)	72" (183 cm)	80.2" (204 cm)	5,400 lb (2455 kg)

# Trilectron's RJ150 Mobile Air Conditioning/Ground Power Unit Specifications

## Construction

- Painted steel frame construction
- Tow bar actuated parking brake
- Aluminum body access panels and doors with stainless steel hardware
- Weather tight electrical enclosure and wiring
- Large operational switches, buttons and latches for cold weather operation in heavy gloves

## Finish

- Anti-corrosive polyester powder provides excellent weather resistance, flexibility and adhesion, plus a strong resistance to chemical agents such as glycol and skydrol
- Standard colors are high gloss white over black frame
- Custom colors require a paint chip or swatch for accurate color match

## Performance

### Air Conditioning

- Nominal Cooling Capacity: 15 tons
- Nominal Airflow: 75 ppm (0.57 kg/s)
- Nominal Static Press: 13"wg (3.24 kPa)
- Nominal Electric Heater: 40 kW, 2 stg
- Refrigerants: R22, R134a, 407c
- Regional temperatures and elevation affect unit performance. Consult factory for specific unit selection data.

### Power Supply

- Unit capable of simultaneous delivery of pre-conditioned air and 28 VDC ground power
- 28.5 VDC: 600A continuous, 2000 A peak, Voltage regulation  $\pm 0.05\%$  up to rated load,

### Environmental

- Operation Temperature:  $-40^{\circ}$  F to  $+125^{\circ}$  F ( $-40^{\circ}$  C to  $+52^{\circ}$  C)
- Relative humidity 0-100%

### Control

- 24VAC Control Voltage
- Manual Mode Selection
- Damper Airflow Control
- Operator panel with two rotary switches

### Generator/Engine Set

#### Generator

- AC output: 480V, 3PH, 4 wire
- Continuous Duty Alternator

#### Engine

- Turbocharged 4-stroke, inline 4 cylinder diesel

### Protection

#### Air Conditioning

- High discharge air temperature (with heat option)
- Airflow loss
- High refrigerant pressure
- Low refrigerant pressure
- Circuit breakers and overloads on all motors

### 28 VDC Power Supply

- Overloads
- Output current limit setting is adjustable over the range of 300 to 2000 amperes

### Engine

- High Coolant Temperature
- Low Coolant Level
- Low Oil Pressure
- Overcrank Starting Protection
- Low fuel shutdown

### Displays/Instrumentation

- Meters: Fuel level, hour meter, water temperature, oil pressure, battery volt meter
- Indicator Lights: operational beacon, low fuel beacon, external hazard lights
- Switch selection: OFF/GEN/FAN and HEAT/VENT/COOL

### Available Options

#### Configuration

- 8"D Insulated, Flat Air Delivery Hose
- Banded 25' 2-wire, DC cable
- Truck Mounted (consult factory)
- Shore Power Cable & Switch
- CE Package
- Special paint scheme

*Specifications subject to change without notice.*

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