

The world's most efficient PCA

Trilectron Air-A-Plane DAC120

Mobile Pre-Conditioned Air Unit



Regional Passenger Aircraft Solution:

Completely self-contained diesel powered Air Conditioner-unit for comfortable conditioning of wide body and jumbo passenger aircraft cabins.

Endurance:

Approximately 8 hours of continuous operation per full fuel tank.

PERFORMANCE FEATURES:

Proven Design:

- Hermetic scroll compressor refrigeration circuit with oversized condensing coil
- Multi-stage electric resistance heater
- Steel frame and aluminium panels
- Meets all applicable UL, NEMA, CE, NEC, OSHA, NFPA, ASHRAE, ASME and AHM 73 & 74 standards

Easy to Operate:

- Simple lighted button operator station mounted at ramp level
- Manual heat/vent/cool mode selection

Economical:

- Blower fan mounted directly to the fan motor requiring no clutches or pulleys
- Fewer moving parts equate to lower maintenance costs
- Significantly less cost than running the aircraft APU
- High efficiency output through the use of multiple refrigerant circuits in a "cascading series" arrangement

Durable:

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

TRILECTRON is part of ITW GSE
- the world's leading supplier of Ground Support Equipment:

ITW GSE TRILECTRON

It's all about connections



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Specifications

Trilectron Air-A-Plane DAC120 PCA

Construction

- Painted steel frame construction
- Tow bar actuated parking brake
- Aluminum body access panels and doors with stainless steel hardware
- NEMA 4 electrical enclosure and weather tight wiring
- Large operational switches, buttons and latches for cold weather operation in heavy gloves

Protective 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 color is high gloss white over black frame
- Custom colors require a paint chip or swatch for accurate color match

Environmental

- Operating Temperature: -40°C to 52°C (-40°F to 125°F)
- Relative humidity 0 - 100%

PERFORMANCE

Air Conditioning

- Nominal Cooling Capacity: 120 tons
- Nominal Airflow: 550 ppm (4.17 kg/s)
- Nominal Static Press: 37"wg (9.22 kPa)
- Nominal Electric Heater: 90 kW, 4 stg
- Nominal Weather Heater: 27.9 kW
- Rating Condition: 95°Fdb/78°Fwb (35°Cdb/26°Cwb), 460/3/60, R22, sea level
- Rated Cooling Capacity: 1,440,000 Btu/hr (422kW)
- Rated Condenser Airflow: 88,500 CFM (41,760 L/s)
- Rated Condensate Flow: 0.57 GPM (36 mL/s)
- Rated Heat Output (Blower+Heater+Engine): 447,700 Btu/hr (140kW)
- Refrigerants: 407c
- Regional temperatures and elevation affect unit performance.
Consult factory for specific unit selection data.

Dimensions & Weight

- Dimensions: 2290 x 1020x 1130 mm (LxWxH)
- Weight: 8390 kg

Electrical

- Blower Motor: 60 HP (44,7 kW)
- Condenser Fan Motors: 6 @ 7.5 HP
- Electric heater (optional): 90 kW, 4 stage, finned-tube enclosed element

Control

- 24VAC Control Voltage
- Manual Mode Selection
- Damper Airflow Control
- Operator panel with large lighted momentary push buttons

Generator

- AC Output: 480V, 3PH, 4 Wire
- Continuous Duty Alternator

Engine

- Turbocharged 4-stroke, inline 6 cylinder

PROTECTION

Air Conditioning

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

Engine

- High temperature shutdown
- Low oil pressure shutdown
- Over-and under voltage shutdown
- Starting protection
- Output circuit breaker

Displays/Instrumentation

- Meters: Discharge air temperature, discharge air pressure, fuel level, hour meter, water temperature, oil pressure, battery volt meter, AC volt meter, AC, AC hertz meter
- Indicator Lights: Lighted push buttons
- Buttons: start, stop, mode, aircraft class selection, second hose, emergency stop

AVAILABLE OPTIONS

Configuration

- 14"D insulated, flat air delivery hoses (2)
- Electric/ hot water heat system
- Exterior hazard lights
- Proximity crash rail
- Low fuel warning beacon

Engine

- Engine block heater
- Cold weather starting aides
- Racor® fuel filter

March 2013

Specifications subject to change without notice.



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