

Electrically Operated Air Conditioner for Aircraft Servicing



Model E100AC4-1 (Shown with optional hose basket.)



F-15 Eagle



F-16 Falcon

ITW MILITARY GSE:

ITW Military GSE is the industry leader 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:

- Electrically operated mobile air conditioner for ground cooling of military aircraft.
- Provides cooling in extreme temperature environments for aircraft such as F16, F15E, F18, Japanese F2, Gripen, and Mirage 2000.
- Field proven with tactical fighter aircraft worldwide.
- Environmentally approved R134a refrigerant.
- Latest screw compressor technology.
- High reliability, low maintenance power transmission system.
- All systems laboratory and field tested - operates in worldwide environments with thousands of failure-free hours.

SIMULTANEOUS CAPABILITIES:

- Cooling: Up to 100 lbs./min.
- Servo Air: 0.5 lbs./min. at 10-100 PSIG.

PERFORMANCE FEATURES:

Proven design:

- Semi-Hermetic screw compressor refrigeration circuits
- Aluminum box frame and panels
- 28 VDC control system
- Meets all UL, NEMA, CE, NEC, OSHA, NFPA, ASHRAE, ASME and AHM 73 & 74 standards
- Adjustable air flow rate

Easy to Operate:

- Simple lighted button operator station mounted at ramp level
- Automatic controls modulate system and monitor for faults

Durable:

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



Model	Cooling Capacity	Heating Capacity	Length	Width	Height	Weight
E100AC4-1	243.6 MBH Gross (71.4 kW), 187.5 MBH Net (55 kW)	33.6 MBH (9.85 kW)	120" (305 cm)	80.25" (205 cm)	80.5" (205 cm)	8,000 lbs (3,636 kg)

E100AC4-I Electrically Operated Air Conditioner Unit Specifications

APPLICATION

- Meets requirements for F15 (all models including F15E), F16 (all models), and F18

COOLING OUTPUT

- 243,600 BTU/hr. @ 125°F ambient (22 ton capacity at maximum conditions)
- 100 lbs./min.
- 5 PSIG
- 45°F output air at ambients up to 100°F, increases to 60°F at 125°F
- Less than 45 grains/pound of delivered air at 45°F with no entrained water
- R-134a Refrigerant

AMBIENT CONDITIONS

- Operating temperature: -30°F to 125°F
Note: Delivered air temperature is higher with operation at higher ambients.
- Storage temperature: -40°F to 150°F

ELECTRICAL INPUT

- 440/480V, 3PH, 60Hz (110 amps) or
380/415V, 3PH, 50Hz (150 amps)

SERVO AIR

- 0.5 lbs./min. @ 10 PSIG
- 30 ft hose with fitting for F16 included (fittings for other aircraft available)

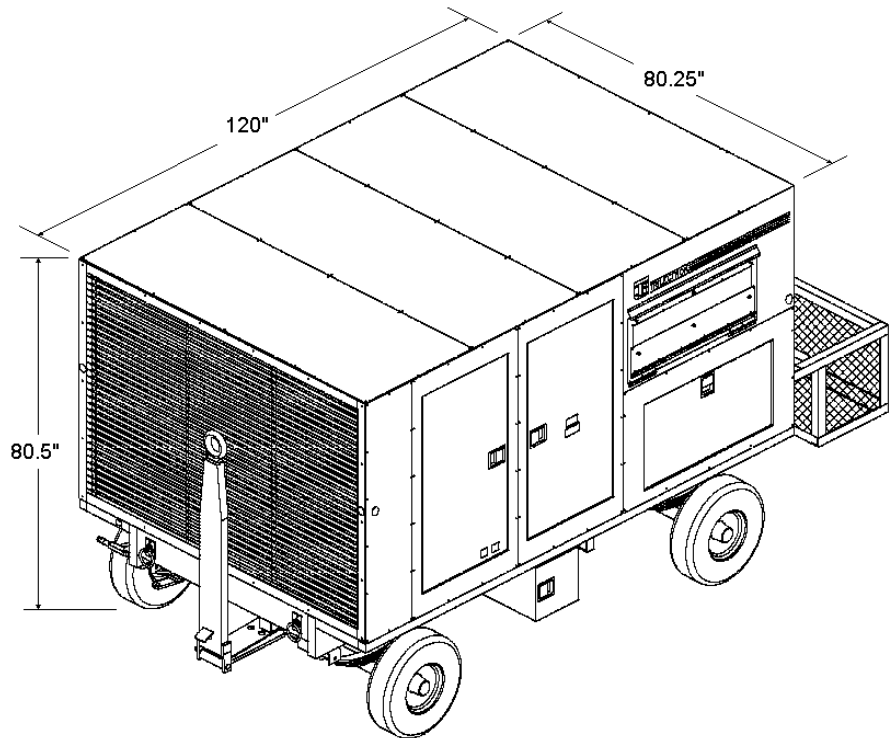
TRAILER

- One steering and one fixed axle heavy duty leaf spring
- Drum parking brakes
- 6.90 x 9" 6-ply tires
- 15 mph tow speed
- Draw bar 52" with 3" ID lunette eye

OPTIONS

1. Input Cable – specify length and connector, if required
2. Output duct – specify length
3. Aircraft-specific adaptors
4. Consult factory for special applications.

Specifications subject to change without notice.



Headquarters & Factory: 11001 US Hwy. 41 North, Palmetto, FL 34221 U.S.A.
Phone: 941.721.1003; 941.721.1006 • Fax: 941.723.3582; 941.531.5876
E-mail: sales@itwmilitarygse.com • www.itwmilitarygse.com

Updated 2/19/08

FROM DESIGN TO DEPLOYMENT