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## ***Model AC20E***

### ***Davco Regional Aircraft Air Conditioner***

The Davco AC20E electric-powered air-conditioning unit is designed to supply preconditioned air to the aircraft in order to maintain comfortable aircraft cabin temperature. This is accomplished with one independent 20-ton cooling system and one 30 kW heating unit, making it suitable for a variety of aircraft. Simplicity, ease of service and maintenance, durability and performance were the primary design objectives. With the 28.5 VDC rectifier option, the unit can also provide power to aircraft requiring 28 VDC at 1000 A continuous and 2000 A peak. Also, with the 30 kW heater option, the unit can be used to supply heat to the aircraft for cold weather operations making the AC20E a versatile unit that can be used on various aircraft in varying conditions.

*Standard features include:*

- Condenser coils have configured aluminum fins mechanically bonded to seamless copper tubing and factory tested at 450 psi under water and vacuum dehydrated
- Two vertical discharge, direct-drive, electrically operated fans offer smooth airflow across the condenser coils
- Controlled by a 24-volt control circuit which includes fusing and power transformer
- Wired with magnetic contactors for compressor and condenser motors, three-leg, solid-state compressor overload protection and high/low pressure cutouts
- Charge isolation, reset relay and anti-recycle compressor timer are provided
- Mounted on 4-wheel trailer constructed of rectangular steel tubing
- Front axle has fifth-wheel type steering
- The two-wheel front trailer brakes are activated when the tow bar is in the up and locked position
- All joints and attachments welded
- Covers fabricated from Diamond Plate aluminum
- PLC used for protection of air conditioning and heating units

## Specifications

## Model AC20E Davco Regional Aircraft Air Conditioner

Dimensions	Base Unit	With Rectifier
Length (overall)	108 in (274.3 cm)	108 in (274.3 cm)
Width	90 in (228.6 cm)	90 in (228.6 cm)
Height	66 in (167.4 cm)	66 in. (167.4 cm)
Weight (dry)	5800 lb (2631 kg)	6300 lb (2858 kg)

**Max Towing Speed** 15 mi/h (24.1 km/h)

### Input Power

480 VAC, 3-phase

### Air Conditioning Unit

Manufacturer	Carrier
Airflow	1,500 CFM
Air pressure	20 in S.P.
Delivered air temp.	35 °F (2 °C) to 130 °F (54 °C)
Cooling capacity	240,000 Btu/h
Heating capacity	30 kw
Storage temp.	-40 °F (-40 °C) to 160 °F (71 °C)
Operating temp.	-25 °F (-32 °C) to 125 °F (52 °C)
Maximum humidity	100 %
Altitude	0-10,000 ft (0 -3,048 m)
Hose	Unit furnished with (1) 20 ft (6 m) long, 12 in (30.5 cm) diameter flexible duct hose with quick release fittings

*Note: Output is dependent upon air pressure drop in the aircraft and ambient temperature. Ratings are at sea level. Ratings can be altered depending upon aircraft requirements.*

### AC Controls

Mode selector switches

- Compressor on/off switch
- Blower on/off switch
- Heater on/off switch

PLC controlled functions to protect compressor (blower overload and low freon)

**Wheels/Tires** 6.00X9 pneumatic tires mounted on 5-lug steel wheels

### Partial List of Options

Safety beacon

Rectifier - provides 28.5 VDC, 1000 A continuous - 2000 peak power. Includes 30 ft (9.1 m) Mil. Spec. cable with molded plug (3 wires), voltmeter, ammeter, cable power switch (toggle) and pilot light.



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