

TUG TECHNOLOGIES

Providing Ground Support Solutions Worldwide



Model shown above includes additional options.

AC20E 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.

Equipment Sales
Tel: (770) 422-7230
Fax: (770) 428-7315

Parts Sales
Tel: (800) 989-8499
Fax: (770) 422-8730

www.tugtech.com

Standard Options 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 air flow 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
- ECU automatic engine controller
- Engine safety shutdowns have indicator lights for easy problem identification
PLC used for protection of air conditioning



If it doesn't say TUG, it's not TUG TUFF

Specifications

Model AC20E

Regional Aircraft Air Conditioner

Dimensions

	Base Unit	With Rectifier
Length (overall)	120 in (304.8 cm)	120 in (304.8 cm)
Width	83.5 in (212.1 cm)	83.5 in (212.1 cm)
Height	62 in (157.5 cm)	62 in (157.5 cm)
Weight (dry)	5800 lb (2631 kg)	6300 lb (2858 kg)

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

Electrical System

Starting System	12VDC
Battery	H.D. 12 volt Optima

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 Btulh
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)	

Engine Controls (ECU)

Single Switch Starting and Shutdown (toggle)
Engine Over-speed Shutdown
Low Oil Pressure Shutdown
High Water Temperature Shutdown
Automatic Start Over Crank Shutdown
Electronic Governor

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

Instruments

VDO lighted hour meter, volt meter, gauge (air) and oil pressure gauge

Partial List of Options

Safety beacon
Rectifier - provides 28.5 VDC, 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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1995 Duncan Dr. Kennesaw, GA 30144
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TUG Genuine Parts

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Fax (770) 422-8730
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