

802 Series

AIR CONDITIONING & HEATING UNITS



The 802 Series Air Conditioning and Air Conditioning/Heating Units provide maximum passenger comfort in all types of aircraft. Available in a wide variety of configurations, these units meet the requirements of all aircraft operators regardless of fleet size or local ambient conditions. Using R-134a as a refrigerant, the 802 Series are environmentally “Safe”, causing no damage to the atmospheric ozone.

The units employ an air-to-air type refrigeration system and, for operators requiring heat, can be supplied with an optional reverse-cycle “heat pump” system. Provisions are made to utilize engine coolant heat to augment the reverse-cycle heat mode. There are no dangers of combustion or its by-products near the aircraft. The “change-over” from one mode to another is so simple that it can be performed by the operator on the ramp. Heating and cooling modes are available as required throughout the day without taking the unit out of service for adjustment.

DESIGN ADVANTAGES

The 802 Series Units have distinct advantages over air conditioning units using reciprocating compressors.

- **Simplified operating controls.**
- **Rotary screw compressor** with two mated helically-grooved rotors. Rotary motion ensures reduced vibration and uniform continuous gas flow over a wide range of evaporating and condensing temperatures. Compressor is not sensitive to liquid slugging. Automatic capacity control for increased efficiency.
- **No pump down cycle required.**

DESIGN FEATURES

- **R-134a Refrigerant** – environmentally “Safe”, will not harm the atmosphere.
- **Filter dryer**, includes a fine-mesh Monel filter and desiccant cartridge to maintain a clean and dry system.
- **Two 42-in diameter condensing fans.**
- **ASME receiver** for refrigerant.
- **127-gallon diesel fuel tank** provides for more than ten hours of operation.

OPTIONAL EQUIPMENT

- **Second 12-inch outlet.**
- **Rear bumper.**
- **Ether start kit.**
- **Fuel filter/water separator with heater.**
- **Low fuel warning system with red or amber flashing beacon.**
- **Low fuel warning and shutdown system with red or amber flashing beacon.**
- **Engine block heater, 120 VAC or 240 VAC.**
- **Flashing beacon, red or amber.**
- **Non-flashing beacon, red or amber.**
- **Rotating beacon, red or amber.**
- **Refrigeration gage package.**

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STANDARD SPECIFICATION

Cooling Capacity	Nominal Tons Refrigeration	115
Air Flow	Single Outlet Lb/Min (Kg/Min)	To 400 (182)
	Dual Outlet Lb/Min (Kg/Min)	To 700 (318)
Supplied Air Temperature (@ 90°F & 50% RH)	°F (°C)	35-50 (2-10)
Compressor Manufacturer	Frick	
Compressor Model	XJF-151L	
Compressor Type	Rotary Screw	
Capacity Control	Automatic Control	
Heating Capacity	Btu/Hr (Gram-Calorie/Sec)	750,000 (52,500)
Heating Ambient	°F (°C)	Below Zero (Below Zero)
Heating Air Temperature	°F (°C)	100-135 (38-57)

AVAILABLE CONFIGURATION

Engine	Deutz BF6M1013FC 300 HP @2200rpm	Detroit Diesel S40E8.7LTA 315HP @2200rpm	Cummins QSC8.3 340HP @2200rpm
Mounting	Skid		
	Trailer with 5 th Wheel		
Heating/Cooling	Cooling		
	Heating & Cooling		

DIMENSIONS (Approximate)

Mounting	Trailer	Truck		Less Vehicle*
		Side Hose	Front Hose	
Length Inches (cm)	226 (574)	270 (688)	290 (737)	164 (417)
Width Inches (cm)	94 (239)	96 (244)	96 (244)	94 (239)
Height Inches (cm)	94 (239)	104 (264)	104 (264)	82 (208)
Weight Lbs (Kg)	14,000 (6,350)	20,500 (9,318)	20,500 (9,318)	12,000 (5,454)

* "Less Vehicle" units can be mounted on properly rated, locally available chassis.



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