

ACU-302

AIR CONDITIONING & HEATING UNITS



DESCRIPTION:

ACU-302 Series Conditioned Air Units comprise a line of diesel-electric and utility-powered electric air conditioning and heating units designed to service narrow body, regional jet and commuter aircraft worldwide. These units employ environmentally safe R-134a refrigerant. Designed with commercially available parts, the ACU-302 requires extremely low maintenance, yielding a long life span and consistently dependable operation.

STANDARD FEATURES:

General:

- Galvanized steel frame and powder coated panels provide the longest lasting finish
- Low profile design
- Twin 15 ton hermetic Trane scroll compressors
- Automatic compressor capacity control
- Condenser and evaporator coils of rugged copper tube and steel frame construction
- Frost resistant evaporator
- High efficiency blower
- Towbar actuated brakes

Diesel-Electric Units:

- Onan DSFAD Cummins generator set compatible with diesel or Jet A fuel.
- Heavy gauge steel trailer base with towbar brake and narrow turn radius fifth wheel steering
- Heavy-duty running gear with 20.5 x 8.0 x 10 pneumatic tires
- Fully recessed instrument panel and gauges

Utility Electric Units:

- Available for operation with 3-phase power in 50 or 60 Hz and line voltage from 380 to 480 volts.

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SAFETY FEATURES:

- Refrigerant high-low pressure shut down
- Compressor discharge temperature shut down
- Blower loss of pressure interlock
- Utility power quality shutdown relay monitors:
 - Loss of phase
 - Phase imbalance
 - Under voltage

OPTIONS:

- Power transfer switch on diesel-electric units to allow operation solely from 50 to 60 Hz facility power
- Adjustable air outlet damper to permit regulation of delivered air pressure and flow
- Low fuel warning and low fuel shutdown systems
- Engine block heater
- Tie down and lift rings

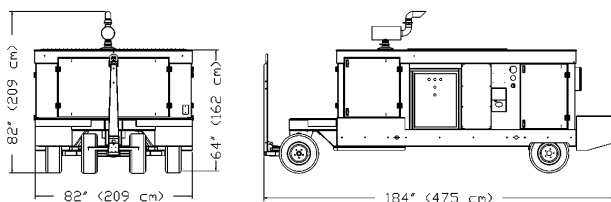
DESIGN SPECIFICATIONS

Model	ACU-302-CUP & H-CUP	ACE-302-EMP* & H-EMP*
Cooling Capacity	24	24
Nominal Tons Refrigeration		
Air Flow	to 190 (86)	to 190 (86)
lb/min (kg/min)		
Supplied Air Temperature (@100°F & 50% RH)	35-50 (2-10)	35-50 (2-10)
°F (°C)		
Heating Capacity	234,000 (68.5)	150,000 (44)
btu/hr (kW)		
Heating Ambient	below 0 (below -18)	below 0 (below -18)
°F (°C)		
Heating Air Temperature	100-110 (38-44)	65-75 (19-24)
°F (°C)		
Engine Manufacturer	Cummins	-
Engine Model	QSB5-G3	-
Generator Power	60	-
kW		
Compressor Manufacturer	Trane	Trane
Compressor Model	CSHA-300K	CSHA-300K
Compressor Type	Scroll	Scroll
Weight	7,300 (3,311)	4,700 (2,135)
Lbs (kg)		

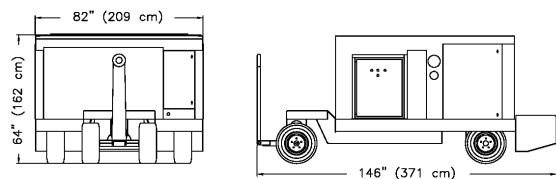
* Reduced performance when operated on 50 Hz power.

DIMENSIONS (Approximate)

ACU-302-CUP & H-CUP



ACE-302-EMP & H-EMP



Dimensions shown are for module only. Skid units are also available and can be mounted on properly rated chassis. Overall dimensions and weight depend on final mounting configuration.



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