

Unit Model: RULCR60CA15-NT

Application: Temperature and Humidity Control of Spacecraft Shipping Containers During Ground Transportation

Unit Type: Ruggedized Skid-Mounted Environmental Control Unit

Key Features:

- Lightweight Aluminum Cabinet
- Designed to Operate in High Ambient Temperatures of up to 150°F.
- Low Ambient Control for Operations in Ambient Temperatures lower than 50°F
- Designed to Operate with Environment-Friendly Refrigerant R-134a.
- High-Efficiency Lanced Aluminum, Rifled Copper Tubing Evaporator Coil
- High Efficiency Micro-Channel Condenser Coil
- High-Efficiency Scroll Compressor
- Automatic Evaporator Bypass for Constant Run Compressor Operation
- High Static Pressure Blower with Variable Air Flow Control
- Electric Heat with Automatic Reset Thermal Safety Cutout
- Electric Reheat for Humidity Control
- Electronic Expansion Valves
- Digital Phase Monitor (for Monitoring Phase Reversal, Phase Loss, Phase Imbalance, Over/Under Voltage Faults)
- Programmable Logic Controller for Temperature and Humidity Control with User Interface Accessible Locally or Remotely via TCP/IP
- Heavy Duty Watertight IEC Pin and Sleeve AC Power Inlet
- Supply Air Molecular and HEPA Filters
- Adjustable Make-Up/Fresh-Air Intake with Molecular and HEPA Filters
- Permanent Washable Air Filters (Evaporator and Condenser Air Intake)
- Externally Accessible Servicing Ports and Refrigerant Sight Glass
- Four (4) Fire Extinguisher Access Ports
- Heavy Duty Steel Skid Base with Lifting Handles and Forklift Pockets
- Corner Quick Receivers for Optional Wheel Kits, Lifting Rings and Leveling Stands that Slide and Pin in to Position In Seconds.
- Durable Powder Coat Finish
- Ruggedized Build for MIL-STD-810F Compliance (for Environment and Vibration)

Unit Specifications*:

PERFORMANCE	
Cooling Capacity (BTU/Hr)	64,200
Heating Capacity (BTU/Hr)	51,195
Operating Conditions with Low Ambient Control (°F)	-30 to 150
Evaporator Supply Air / Condenser Exhaust Air Flow Rates (CFM)	3500 / 3500
Compressor Operating Mode	Constant Run
ELECTRICAL	
Voltage (VAC) ±10%	208-230
Phase - Frequency (Hz)	3 - 60
Maximum Nominal Currents - Cooling / Heat / Reheat (A)	48.2 / 51 / 70
Maximum Nominal Power Consumption - Cooling / Reheat (kW)	15.3 / 25.3
Electric Heat (kW) @ 230VAC**	13.8
Circuit Breaker/Fuses Size (A) / Supply Power Cable Size (AWG)	100 / 4
PHYSICAL CHARACTERISTICS	
Dimensions, H x W x D (in) / Weight (Lbs)	68.6 x 34 x 68.2 / 900
Fan Type, Evaporator	Direct Drive, Reverse-Inclined Impeller
Fan Type, Condenser	Direct Drive, Axial
Evaporator Supply Air Duct Takeoff Dia. (in)	16
Evaporator Return Air Duct Takeoff Dia. (in)	16
REFRIGERANT	
Type	R-134a

*All specifications are subject to change without notice.

** Heating elements are factory-rated 15kW at 240VAC.