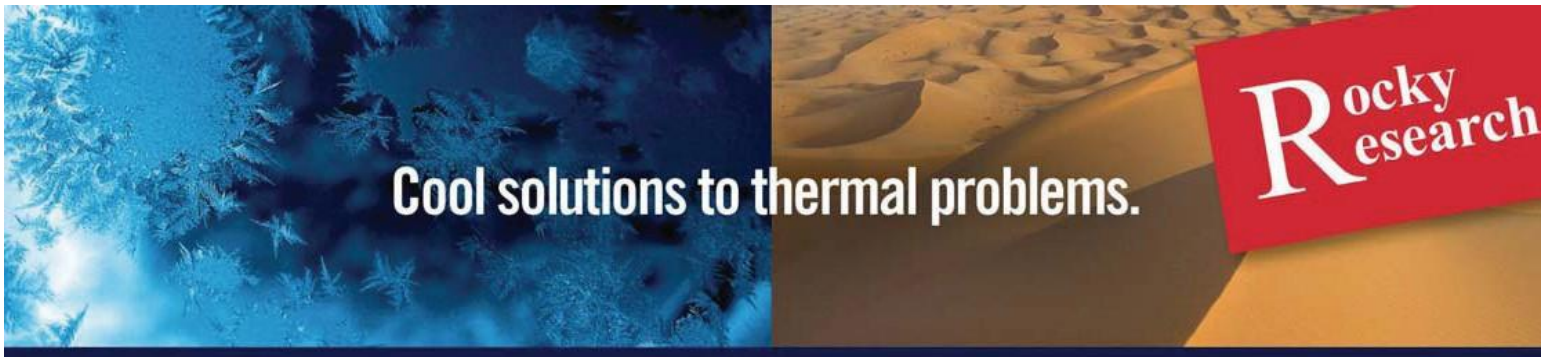

COMMERCIAL | INDUSTRIAL | DEFENSE

ECU06002

- Increased Reliability
- Energy Efficient
- Load Adaptive
- Sealed Compressor
- Low Noise
- Modular Controls
- Simple to Operate
- Easy to Service
- Microchannel Technology
- Portability
- ICE® Technology

Intelligently Cooled Electronics

Rocky Research 5-Ton Split System ECU

Utilizing Rocky Research's patented, state-of-the-art HVAC technologies along with readily available commercial-off-the-shelf components, the 5-Ton Split System **ECU06002** offers a highly reliable design ready to address the rigors of harsh military environments. Providing up to 30% energy efficiency when compared to conventional military ECUs, Rocky Research's 5-Ton Split System **ECU06002** offers 60,000 BTU/hr road adaptive cooling capacity at 125°F.

Evaporator and Condenser units are stackable for transportation and are sized to effectively fit in shipping containers. The compressor, evaporator fan, and condenser fan are all independently speed/torque controlled – allowing for maximum efficiency and reliability under a wide range of temperatures and conditions. Rocky Research 5-Ton Split System **ECU06002** is fully operational up to 135°F ambient temperature.

Designed for military environments and operational system reliability, Rocky Research's 5-Ton Split System **ECU06002** uses self-sealing quick disconnect fittings and military rated electrical connectors. The custom microchannel condenser coils allow for maximum cooling in a very small footprint. All electrical components are easily accessible. A separate evaporator section allows fro two man lift and easy transport capabilities. Remote software control capability utilizing UDP / IP, RS-485, ModBus RTU (via RS-485 or TCP/IP), or CANBUS protocols.

System Specifications

Frequency:	50/60 Hz
Voltage:	208 - 230 VAC
Phase:	3 Phase
Wires:	5 wire
Max. Power:	710kW (Cooling), 12 kW (Heating)
Amperage (Nominal) *	17 Amps (Cooling), 27 Amps (Heating)
Cooling Capacity:	60,000 BTU/HR
Heating Capacity:	37,500 BTU/HR
Evaporator Air Flow	2200 CFM
Max. Ambient Temperature:	135°F
Min. Ambient Cooling:	50°F
Min. Ambient Heating:	-40°F
Refrigerant:	R134A
COP:	1.5 at 125/90°F

** ECU does not impose inrush current as typically seen with other ECUs*

Physical Specifications

Form Factor:	Skid / Trailer
Dimensions:	Condenser: 39.5" L X 25.25" W X 26.25" H Evaporator: 25.25"L X 18.25" W X 39.5" H Stacked: 39.5"L X 25.25"W X 44.5"H
Weight:	Condenser: 400lbs Evaporator: 200lbs Stacked: 600lbs

Environmental Specifications

Cooling Capacity:	ASHRAE STD 37 95° F F OAT with 80°/67° indoor dry bulb temperatures 125° F OAT with 90°/75° indoor dry bulb temperatures	✓ **CERTIFIED**
Heating Capacity:	ASHRAE STD 37 20° F OAT w/ 70° F return air	✓ **CERTIFIED**
Vibration:	MIL-STD-810G, Method 514.60	✓ **CERTIFIED**
Shock:	MILSTD-810G, Method 516.6 Rail Impact Road March	✓ **CERTIFIED**
EMI:	MIL-STD-461F, Method RE509.4, CE102, CS101, and RS103	✓ **CERTIFIED**
Salt Fog:	MIL-STD-810G, Method 509.4	✓ **CERTIFIED**
Enclosure Protection:	NEMA 4	✓ **CERTIFIED**