

Cool solutions to thermal problems.

Rocky  
Research

COMMERCIAL | INDUSTRIAL | DEFENSE

ECU03601-IP

Integrated Power

Increased Reliability

Energy Efficient

Load Adaptive

Sealed Compressor

Low Noise

Modular Controls

Simple to Operate

Easy to Service

Microchannel  
Technology

ICE® Technology



## Integrated 3-Ton High Efficiency Air Conditioner & Power Generator



Utilizing Rocky Research's patented, state of the art HVAC technologies along with readily available commercial off the shelf components, the **ECU03601-IP** offers a highly reliable and serviceable design that is ready to survive the rigors of harsh military environments. Providing up to 30% improvement in energy efficiency compared to conventional military ECUs, Rocky Research's **ECU03601-IP** offers 36,000 BTU/hr of load adaptive cooling capacity in ambient temperatures up to 135°F.

The **ECU03601-IP** has an integrated power generator or can operate from a standard military generator. Rocky Research's **ECU03601-IP** incorporates soft start technology that avoids inrush currents resulting in higher compressor reliability. Rocky Research **ECU03601-IP** is fully operational in ambient temperatures up to 135°F.

Designed for military environments and operational reliability Rocky Research's **ECU03601-IP** also offers the benefits of relatively low ambient noise while being simple to service and operate with straightforward and intuitive controls. The integrated generator meets Tier-4 emission standards.

## System Specifications

### Primary Power Source Integrated Generator

Fuel: Diesel or JP8  
Specific Fuel Consumption: 250g/kW-hr

### Secondary Power Source Connection

Frequency: 50/60 Hz  
Voltage: 208 - 230 VAC  
Phase: 3  
Wires: 4 wire  
Max. Power: 6 kW (Cooling), 9 kW (Heating)  
Cooling Capacity: 36,000 BTU/HR  
Heating Capacity: 30,000 BTU/HR  
CFM: 1400  
Max. Ambient Temperature: 135°F  
Min. Ambient Cooling: 50°F  
Min. Ambient Heating: -40°F  
Refrigerant: R134A  
COP: 1.5 at 125/90°F

## Physical Specifications

Form Factor: Wall-Mount / Shelter Mount  
Dimensions: 70.00" W x 40.00" H x 44.00" D  
Weight: 1,100 lbs.

## Environmental Specifications – Designed to Meet

Cooling Capacity: ASHRAE STD 37  
95°F OAT with 80°/67° indoor dry bulb/wet bulb temperatures  
125°F OAT with 90°/75° indoor dry bulb temperatures

Heating Capacity: 20°F OAT w/70°F return air

Vibration: MIL-STD-810, Method 514.60

Shock: MIL-STD 810G, Method 516.6  
Raid Impact & Road March

EMI: MIL-STD-461E, Method RE509.4, CE102, CS101, and RS103

Low Temperature Operation (Heating): ASRAE STD 37, 20°F OAT w/70°F return air

Low Temperature Operation (Cooling): ASRAE STD 37, ASRAE STD 37, 125°F OAT w/125°F return air

Salt Fog: MIL-STD-810G, Method 509.4