

Cool solutions to thermal problems.

Rocky
Research

COMMERCIAL | INDUSTRIAL | DEFENSE

ECU03601-IP

Integrated 3-Ton High Efficiency Air Conditioner & Power Generator

Integrated Power

Increase Reliability

Energy Efficient

Load Adaptive

Sealed Compressor

Low Noise

Modular Controls

Simple to Operate

Easy to Service

Microchannel Technology

ICE® Technology



Utilizing Rocky Research's patented 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 125°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 125°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 Phase
Wires:	4 wire
Max. Power:	6.6 kW (Cooling), 9.5 kW (Heating)
Cooling Capacity:	40,000 BTU/HR
Heating Capacity:	30,000 BTU/HR
Evaporation Air Flow:	1,400 CFM
Max. Ambient Temperature:	125°F
Min. Ambient Cooling:	50°F
Min. Ambient Heating:	-40°F
Refrigerant:	R134A
COP:	1.8 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

Cooling Capacity:	ASHRAE STD 37 95°F OAT w/ 80°/67° indoor dry bulb/wet bulb temperatures 125°F OAT w/ 90°/75° indoor dry bulb temperatures	✓	COMPLETED
Heating Capacity:	ASHRAE STD 37 20°F OAT w/ 70°F return air	✓	COMPLETED
Vibration:	MIL-STD-810, Method 514.6	✓	COMPLETED
Shock:	MIL-STD 810G, Method 516.6 Rail Impact & Road March	✓	COMPLETED
EMI:	MIL-STD-461E, Method RE509.4, CE102, CS101, & RS103	✓	COMPLETED
Low Temperature Operation (Heating):	ASHRAE STD 37, 20°F OAT w/ 70°F return air	✓	COMPLETED
Low Temperature Operation (Heating):	ASHRAE STD 37, 125°F OAT w/ 125°F return air	✓	COMPLETED
Salt Fog:	MIL-STD-810G, Method 509.4	✓	COMPLETED