

## TECHNICAL SPECIFICATIONS

## ENVIRONMENTAL CONTROL UNITS

**S**nowbird Technologies environmental control units (ECUs) are custom-engineered and manufactured to protect both people and equipment from the most intolerable conditions around the world.

Our units are designed to meet the extreme demands of military environments and are ideal for integration with mobile defense shelter systems, land, air, and water vehicles, and forward operating bases. The mil-spec design and durability make these units adaptable to industrial and commercial applications.

### TRUSTED SUPPLIER OF ECU SOLUTIONS TO PRIVATE AND PUBLIC DEFENSE ORGANIZATIONS



#### QUALITY PRODUCTS

trusted by the DoD, NAVSUP, DLA, Department of the Navy, and Tier 1 and 2 government contractors, and more since 1992.

All Snowbird Technologies ECUs have been qualified by the US Department of Defense through its testing programs and are available for use in compliance with all DoD requirements under prime and subcontract programs.



#### CUSTOM-BUILT

and assembled in our facility in Jacksonville, Florida, USA.

Our team of manufacturing professionals is dedicated to providing best-in-class customer service and support.



#### ENGINEERED TO EXCEED

your expectations with our in-house department of experts. Our ECUs are tested to MIL-STD-810, ASHRAE 37 capacity and verified to AMB.

Our units are designed for the harshest environments and can endure conditions up to 135°F.

We subject our units to EMI, shock, and vibration, sand, dust, and salt fog protocols, simulating actual operating conditions.

**MODEL: A/E 32C-45A**

**OZONE-FRIENDLY**

**VERTICAL UNIT**

**LIGHTWEIGHT**
**3-TON 36K BTU/HR ECU**

This ozone-friendly unit is a vertical, heat pump ECU that boasts a lightweight, self-contained unit built into a weatherproof aluminum case. The built-in heat pump provides a high-capacity heat-cool environmental control system.

**SPECIFICATIONS**

<b>Nominal cooling capacity:</b>	36,000 BTU/hr at 60 Hz
<b>Nominal heating capacity:</b>	76,000 BTU/hr with supplementary heaters at 60 Hz
<b>Product dimensions:</b>	72.5" H x 39.2" W x 14.8" D
<b>Product net weight:</b>	Max 500-lbs
<b>Power requirements:</b>	208 VAC, 3-phase, 50/60 Hz

**FEATURES**

- Controls the temperature of an adequately enclosed compartment within the variable range of 7°C to 32°C (45°F to 90°F) in ambient temperatures of -32°C to 52°C (-25°F to 125°F).
- Temperature is controlled by a cool-heat control thermostat.
- The ECU features three cycles – heating cycle, cooling cycle, and defrosting cycle.
- Outdoor thermostat with an adjustable range -23°C to 4.4°C (-10°F to 40°F).
- Sealed hermetic compressor
- R-134A refrigerant.

**OPTIONS AVAILABLE**

- Supplemental heating unit is a two-stage assembly each containing 6-KW heaters capable of dispersing a total of 41,000 BTU/hr. Over heating protection is provided.
- Test diagnostics measured by electronic metering constantly monitors temp and pressure and provides fault detection and isolation.
- Electronic inrush suppressor to reduce LRA at start up.
- Customer specified color in "carc" paint.
- Customer specific requirements can be accommodated by our design team.
- Prototypes and rapid production samples available upon request.