

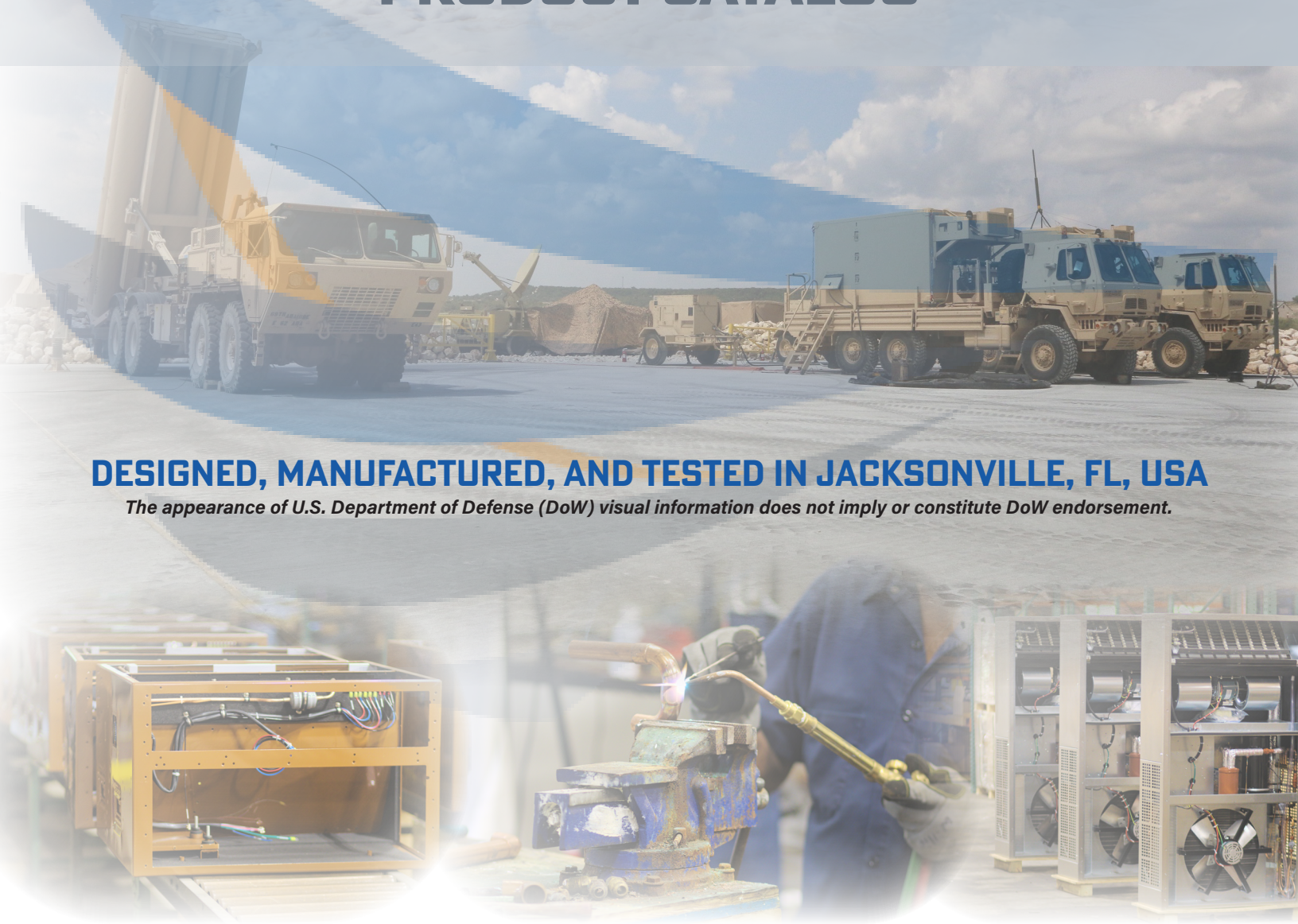


# ENVIRONMENTAL CONTROL UNITS

## PRODUCT CATALOG

**DESIGNED, MANUFACTURED, AND TESTED IN JACKSONVILLE, FL, USA**

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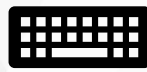
## MISSION-READY ENVIRONMENTAL CONTROL UNITS (ECUS)

### For Defense & Expeditionary Applications

Snowbird Technologies Environmental Control Units (ECUs) are engineered to protect personnel and mission-critical electronics in the world's most extreme operating environments. Designed, manufactured, and tested in Jacksonville, Florida, Snowbird ECUs are built to endure temperatures up to 135°F and meet MIL-STD-810 environmental standards. Trusted by U.S. defense agencies and Tier 1 contractors, our ECUs deliver ruggedized, MIL-STD-tested heating and cooling solutions for:



**Tactical Shelters**



**Command & Control Systems**



**Radar Platforms**



**Shipboard Compartments**



**Mobile Electronic Systems**



**Forward Operating Bases**

### Portfolio Overview by Mounting Configuration

Snowbird Technologies ECUs are available in multiple form factors to support integration across land, air, and maritime platforms.

#### Horizontal Mount

Compact, lightweight systems ideal for trailer, vehicle, and mobile shelter integration.

Cooling Capacity:  
10,000 - 31,200 + BTU/hr

Models:

- S8450-9KH-1
- S18K-LW-1
- S9150-18KH-1
- S9160-18KH-3
- ERUSA-24KH-134A
- LCAC-33KH-1
- LCAC100-512-001C
- LCAC100-512-01
- S9500-36KH-1



#### Wall Mount

Designed for direct enclosure integration in van bodies, communications shelters, and containerized systems.

Cooling Capacity:  
36,000 - 60,000 + BTU/hr

Models:

- A/E 32C-45A
- A/E 32C-48A

#### Skid Mount

Heavy-duty, high-capacity units for command shelters, large enclosures, and expeditionary base operations.

Cooling Capacity:  
36,000 - 120,000 BTU/hr

Models:

- H36-ST410A-100
- 2559AS400-407C-1-V2



#### Split Mount

Flexible condensing/evaporator separation for specialized platform integration.

Cooling Capacity:  
7,500 BTU/hr and scalable

Models:

- S7.5-E/C-1324-1



[SNOWBIRDTECH.COM/ECU](http://SNOWBIRDTECH.COM/ECU)

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## MISSION-READY ENVIRONMENTAL CONTROL UNITS (ECUS)

### Environmental Control Unit Model Matrix

Model	Mount Type	Cooling Capacity	Heating Capacity	Power	Application
S7.5-E/C-1324-1	Split	7.5K BTU	-	230VAC 1Ø	Mobile command centers
S8450-9KH-1	Horizontal	10K BTU	7K BTU	115VAC 1Ø	Compact electronics shelters
S18K-LW-1	Horizontal	18K BTU	13.4K BTU	208VAC 3Ø	Mobile electronics shelters
S9150-18KH-1	Horizontal	18K BTU	13.4K BTU	208VAC 3Ø	Tactical vehicle shelters
S9160-18KH-3	Horizontal	18K BTU	13.4K BTU	208VAC 3Ø	Mobile electronics shelters
ERUSA-24KH-134A	Horizontal	24K BTU	13.4K BTU	208VAC 3Ø	Technical shelters
LCAC-33KH-1	Horizontal	33K BTU	24K BTU	208VAC 3Ø	Maritime platforms
LCAC100-512-001C	Horizontal	36K BTU	24K BTU	450VAC 3Ø	Maritime platforms
LCAC100-512-01	Horizontal	36K BTU	24K BTU	450VAC 3Ø	Maritime platforms
S9500-36KH-1	Horizontal	36K BTU	31.2K BTU	208VAC 3Ø	Shelter cooling
H36-ST410A-100	Skid	36K BTU	40K BTU	208VAC 1Ø	Trailer/skid systems
A/E 32C-45A	Wall	36K BTU	76K BTU	208VAC 3Ø	Heat pump shelters
A/E 32C-48A	Wall	60K BTU	99K BTU	208VAC 3Ø	Medium shelter systems
2559AS400-407C-1-V2	Skid/Vertical	120K BTU	68K BTU	230VAC 3Ø	Large command shelters

### SMART Telematics Integration

The SMART system provides monitoring, diagnostics, and predictive alerts including:

- Refrigerant charge detection
- Compressor overload protection
- Extreme ambient condition alerts
- Remote performance tracking
- Emergency shutdown protection

SMART is available for new and legacy Snowbird ECU systems.



**SNOWBIRD TECHNOLOGIES  
 DELIVERS MISSION-CRITICAL  
 ECU SOLUTIONS  
 THAT PROTECT PEOPLE  
 PRESERVE EQUIPMENT  
 AND EXTEND OPERATIONAL  
 READINESS  
 ACROSS THE FULL SPECTRUM OF  
 DEFENSE APPLICATIONS**

### Snowbird ECU Engineering

- MIL-STD-810 Tested
- EMI, vibration, shock, sand, dust, salt fog qualified
- ASHRAE 37 verified capacity
- Operating range down to -50°F
- Continuous-duty rated
- Custom CARC coatings available
- Rapid prototype capability

[SNOWBIRDTech.COM/ECU](http://SNOWBIRDTech.COM/ECU)

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**MODEL: S7.5-E/C-1324-1****7.5K BTU/HR SPLIT UNIT ECU**

## Product Specifications

This ruggedized, MIL-SPEC solution is engineered for harsh environmental conditions encountered worldwide. It enables high-power amplifiers (HPAs) to maintain optimal performance by actively controlling their operating environment through an integrated closed-loop cooling system.

**Nominal Cooling Capacity:**

7,500 BTU/hr at 60 Hz

**Product Net Weight:**

Max 375-lbs

**Power Requirements:**

230 VAC, 1-phase, 50/60 Hz

**Operating Temperatures:**

4.4°C to 65°C (40°F to 150°F)



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**MODEL: S8450-9KH-1**
**9K BTU/HR ECU**
**Product Specifications**

This is a horizontal compact environmental control unit that boasts a lightweight design ideal for use in mobile technical electronic shelters.



<b>Nominal Heating Capacity:</b>	7,000 BTU/hr
<b>Nominal Cooling Capacity:</b>	10,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	24"W x 26"L x 16"H
<b>Product Net Weight:</b>	Max 175-lbs
<b>Power Requirements:</b>	115 VAC, 1-phase, 50/60 Hz


**FEATURES**

- Operating temperature ranges of -45°C to 26.7°C (-50°F to 80°F) and -17.8°C to 52°C (0°F to 125°F cooling).
- Alternate power input source.
- Handles for lifting.
- R-407C Refrigerant.

**AVAILABLE OPTIONS**

- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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**MODEL: S18K-LW-1**

**18K BTU/HR ECU**
**Product Specifications**

This is a horizontal compact air conditioner that boasts a lightweight design ideal for use in mobile technical electronic shelters. An electric motor allows for continuous operation under varying loads.

<b>Nominal Heating Capacity:</b>	13,400 BTU/hr
<b>Nominal Cooling Capacity:</b>	18,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	30"W x 27.94"L x 20"H
<b>Product Net Weight:</b>	Max 165-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 50/60 Hz

**FEATURES**

- Operating temperature ranges of -45°C to 26.7°C (-50°F to 80°F) and -17.8°C to 52°C (0°F to 125°F cooling).
- Alternate power input source.
- Handles for lifting.
- Roll-up canvas condenser cover.
- R-410A Refrigerant.

**AVAILABLE OPTIONS**

- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

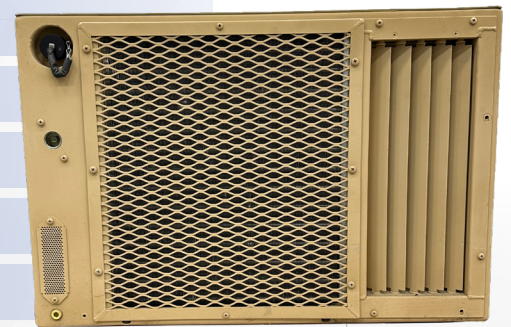
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**MODEL: S9150-18KH-1**
**1.5-TON 18K BTU/HR ECU**
**Product Specifications**

This is a horizontal compact air conditioner that boasts a lightweight design for wall or floor mounting. An electric motor allows for continuous operation under varying loads, making it ideal for use in mobile, technical electronics shelters.



<b>Nominal Heating Capacity:</b>	13,400 BTU/hr at 60 Hz
<b>Nominal Cooling Capacity:</b>	18,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	30"W x 27.94"L x 20"H
<b>Product Net Weight:</b>	Max 290-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 50/60 Hz


**FEATURES**

- Operating temperature ranges of -45°C to 26.7°C (-50°F to 80°F) and -17.8°C to 52°C (0°F to 125°F cooling).
- Alternate power input source.
- Roll-up canvas condenser cover.
- R-407C Refrigerant.

**AVAILABLE OPTIONS**

- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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**MODEL: S9160-18KH-3**

**1.5-TON 18K BTU/HR ECU**
**Product Specifications**

This is a horizontal compact air conditioner that boasts a lightweight design for wall or floor mounting. An electric motor allows for continuous operation under varying loads, making it ideal for use in mobile, technical electronics shelters.

<b>Nominal Heating Capacity:</b>	13,400 BTU/hr at 60 Hz
<b>Nominal Cooling Capacity:</b>	18,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	30"W x 27.94"L x 20"H
<b>Product Net Weight:</b>	Max 290-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 50/60 Hz


**FEATURES**

- Operating temperature ranges of -45°C to 26.7°C (-50°F to 80°F) and -17.8°C to 52°C (0°F to 125°F cooling).
- Alternate power input source.
- Handles for lifting.
- Roll-up canvas condenser cover.
- R-407C Refrigerant.

**AVAILABLE OPTIONS**

- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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**MODEL: ERUSA-24KH-134A**
**2-TON 24K BTU/HR ECU**
**Product Specifications**

This ozone-friendly unit is a horizontal, compact air conditioner that boasts a lightweight design that can be wall or floor-mounted. An electric motor allows for continuous operation under varying loads making it an ideal option for use in mobile technical electronics shelters.



<b>Nominal Heating Capacity:</b>	13,400 BTU/hr
<b>Nominal Cooling Capacity:</b>	24,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	30"W x 20"L x 20"H
<b>Product Net Weight:</b>	Max 290-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 50/60 Hz


**FEATURES**

- Operating temperature ranges of -45°C to 26.7°C (-50°F to 80°F) in ambient temperatures of -17.8°C to 52°C (0°F to 125°F).
- Handles for lifting.
- Roll-up canvas condenser cover.
- R-134A Refrigerant.

**AVAILABLE OPTIONS**

- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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**MODEL: LCAC-33KH-1**

**LCAC 33K BTU/HR ECU**
**Product Specifications**

This unit is a horizontal, compact ECU that boasts a lightweight, single-unit design that provides filtered cooled and heated air for the Landing Craft, Air Cushion (LCAC) vehicles. Trusted by the Department of the Navy for use on their LCACs and ship-to-shore connector hovercrafts, this unit features an electric motor that allows for continuous operation under varying loads.

<b>Nominal Heating Capacity:</b>	24,000 BTU/hr with supplementary heaters at 60 Hz
<b>Nominal Cooling Capacity:</b>	33,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	33.13"W x 31.75"L x 20.48"H
<b>Product Net Weight:</b>	Max 380-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 400 Hz, 3-wire power


**FEATURES**

- Operating temperature ranges of -32°C to 26°C (-30°F to 80°F) and 12°C to 52°C (55°F to 125°F cooling).
- Two-stage heating provided. Stage one (low heat) 9,500 BTU/hr and stage two (high heat) 14,500 BTU/hr for a total of 24,000 BTU/hr.
- Handles for lifting.
- Provided with remote control panel. Connection for remote environmental control switch (COOL-VENT-HEAT) on the craft.
- R-134A Refrigerant.

**AVAILABLE OPTIONS**

- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

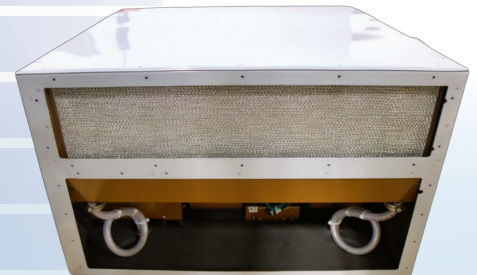
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**MODEL: LCAC-33KH-1C**

**LCAC 33K BTU/HR COMPOSITE ECU**
**Product Specifications**

This unit is a horizontal, compact ECU that boasts a lightweight, single-unit design that provides filtered cooled and heated air for the Landing Craft, Air Cushion (LCAC) vehicles. Trusted by the Department of the Navy for use on their LCACs and ship-to-shore connector hovercrafts, this unit features an electric motor that allows for continuous operation under varying loads. This design is highly corrosion resistant with an epoxy coated composite case, Heresite coated aluminum internals, stainless steel hardware, and insulated and corrosion resistant coated refrigeration copper.

<b>Nominal Heating Capacity:</b>	24,000 BTU/hr with supplementary heaters at 60 Hz
<b>Nominal Cooling Capacity:</b>	33,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	33.13"W x 31.75"L x 20.48"H
<b>Product Net Weight:</b>	Max 380-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 400 Hz, 3-wire power


**FEATURES**

- Operating temperature ranges of -32°C to 26°C (-30°F to 80°F) and 12°C to 52°C (55°F to 125°F cooling).
- Two-stage heating provided. Stage one (low heat) 9,500 BTU/hr and stage two (high heat) 14,500 BTU/hr for a total of 24,000 BTU/hr.
- Handles for lifting.
- Provided with remote control panel. Connection for remote environmental control switch (COOL-VENT-HEAT) on the craft.
- R-134A Refrigerant.

**AVAILABLE OPTIONS**

- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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**MODEL: LCAC100-512-01**

**LCAC 36K BTU/HR ECU**
**Product Specifications**

This unit is a horizontal, compact ECU that boasts a lightweight, single-unit design that provides filtered cooled and heated air for the Landing Craft, Air Cushion (LCAC) vehicles. Trusted by the Department of the Navy for use on their LCACs and ship-to-shore connector hovercrafts, this unit features an electric motor that allows for continuous operation under varying loads.

<b>Nominal Heating Capacity:</b>	24,000 BTU/hr with supplementary heaters at 60 Hz
<b>Nominal Cooling Capacity:</b>	36,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	33.13"W x 31.75"L x 20.48"H
<b>Product Net Weight:</b>	Max 380-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 60 Hz, 3-wire power

**FEATURES**

- Operating temperature ranges of -32°C to 26°C (-30°F to 80°F) and 12°C to 52°C (55°F to 125°F cooling).
- Two-stage heating provided. Stage one (low heat) 9,500 BTU/hr and stage two (high heat) 14,500 BTU/hr for a total of 24,000 BTU/hr.
- Handles for lifting.
- Provided with remote control panel. Connection for remote environmental control switch (COOL-VENT-HEAT) on the craft.
- R-134A Refrigerant.

**AVAILABLE OPTIONS**

- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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**MODEL: LCAC100-512-001C**
**LCAC 36K BTU/HR COMPOSITE ECU**
**Product Specifications**


This unit is a fiberglass composite, horizontal, compact ECU that boasts a lightweight, single-unit design that provides filtered cooled and heated air for the Landing Craft, Air Cushion (LCAC) vehicles. Trusted by the Department of the Navy for use on their LCACs and ship-to-shore connector hovercrafts, this unit features an electric motor that allows for continuous operation under varying loads. This design is highly corrosion resistant with an epoxy coated composite case, Heresite coated aluminum internals, stainless steel hardware, and insulated and corrosion resistant coated refrigeration copper.

<b>Nominal Heating Capacity:</b>	24,000 BTU/hr with supplementary heaters at 60 Hz
<b>Nominal Cooling Capacity:</b>	36,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	33.13"W x 31.75"L x 20.48"H
<b>Product Net Weight:</b>	Max 380-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 60 Hz, 3-wire power


**FEATURES**

- Operating temperature ranges of -32°C to 26°C (-30°F to 80°F) and 12°C to 52°C (55°F to 125°F cooling).
- Two-stage heating provided. Stage one (low heat) 9,500 BTU/hr and stage two (high heat) 14,500 BTU/hr for a total of 24,000 BTU/hr.
- Handles for lifting.
- Provided with remote control panel. Connection for remote environmental control switch (COOL-VENT-HEAT) on the craft.
- R-134A Refrigerant.

**AVAILABLE OPTIONS**

- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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**MODEL: S9500-36KH-1**

**3-TON 36K BTU/HR ECU**
**Product Specifications**

This is a horizontal, compact air conditioner that boasts a lightweight design for wall or floor mounting. An electric motor allows for continuous operation under varying loads, making it ideal for use in mobile, technical electronics shelters.

<b>Nominal Heating Capacity:</b>	31,200 BTU/hr at 60 Hz
<b>Nominal Cooling Capacity:</b>	36,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	38"W x 35"L x 27"H
<b>Product Net Weight:</b>	Max 398-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 50/60 Hz


**FEATURES**

- Operating temperature ranges of -45°C to 49°C (-50°F to 120°F) in ambient temperatures of -17.8°C to 52°C (0°F to 125°F).
- Alternate power input source.
- Handles for lifting.
- Roll-up canvas condenser cover.
- R-407C Refrigerant.

**AVAILABLE OPTIONS**

- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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**MODEL: H36-ST410A-100**
**3-TON 36K BTU/HR ECU**
**Product Specifications**

This horizontal unit is ideal for trailer and skid-mounted applications, working as a standalone ECU condenser and evaporator system packed in a compartmentalized aluminum cabinet to withstand challenging environments. The H36 is designed for ease of serviceability and maintenance with compression latches and washable filters.



<b>Nominal Heating Capacity:</b>	40,000 BTU/hr
<b>Nominal Cooling Capacity:</b>	36,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	55.5"W x 36"L x 37.9"H
<b>Product Net Weight:</b>	Max 410-lbs
<b>Power Requirements:</b>	208 VAC, 1-phase, 50/60 Hz

**FEATURES**

- Operating temperature ranges of -29°C to 26°C (-20°F to 80°F) in ambient temperatures of 12°C to 54°C (55°F to 130°F).
- Lightweight, energy efficient design.
- Accepts alternate/hybrid power sources.
- Scalable design for easy increase in capacity to 5T and above.
- Designed for mobile and stationary applications.
- R-407C Refrigerant.

**AVAILABLE OPTIONS**

- Available with a digital thermostat.
- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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

**3-TON 36K BTU/HR ECU**
**Product Specifications**

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.

<b>Nominal Heating Capacity:</b>	76,000 BTU/hr with supplementary heaters at 60 Hz
<b>Nominal Cooling Capacity:</b>	36,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	39.2"W x 14.8"L x 72.5"H
<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.

**AVAILABLE OPTIONS**

- 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 temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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**MODEL: A/E 32C-48A**

**5-TON 60K BTU/HR HEAT PUMP**
**Product Specifications**

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

<b>Nominal Heating Capacity:</b>	99,000 BTU/hr with supplementary heaters at 60 Hz
<b>Nominal Cooling Capacity:</b>	60,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	39.2"W x 29.6"L x 72.5"H
<b>Product Net Weight:</b>	Max 750-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 50/60 Hz, 3-wire power

**FEATURES**

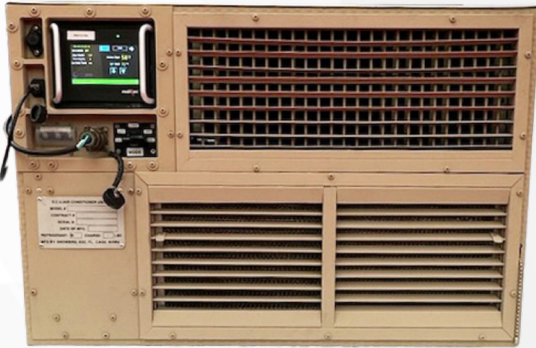
- Controls the temperature of an adequately enclosed compartment within the variable range of 7°C to 32°C (45°F to 90°F) in ambient temperatures of -32°C to 52°C (-25°F to 125°F).
- Temperature is controlled by a cool-heat control thermostat.
- Three cycles - heating cycle, cooling cycle, and defrosting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

**AVAILABLE OPTIONS**

- Supplemental heating unit in a two-stage assembly each containing 6kW heaters capable of dispersing a total of 41,000 BTU/hr. Over-heating protection included.
- Test diagnostics measured by electronic metering constantly monitors temperature and pressure and provides fault detection and isolation.
- Electronic rush 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.

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## MODEL: SMART TELEMATICS SYSTEM



### THE SMART SOLUTION FOR ECUS

#### Product Specifications

Exclusively from Snowbird Technologies, **SMART** is a new telematics technology that is available on new and existing environmental control units and designed to improve capabilities and efficiencies while reducing downtime.

SMART is packaged in a modular system that offers the immediate capability of continuous remote control and monitoring of all critical ECU components. SMART is equipped with the 'brains' to notify users of the following: Warnings to prevent unit failures, automatic diagnostics to expedite repairs if a failure occurs, and data logging for complete maintenance trackability. All SMART metrics can be monitored remotely and controlled over a network using a weatherproof CAT5e internet cable port on the front of the ECU.



### AUTONOMOUS DETECTION AND NOTIFICATIONS

**Low Refrigerant Charge**

**Refrigerant Overcharge**

**Compressor Overload\***

**Extreme Ambient Conditions**

**Dirty Electrical Power Supply Conditions\***

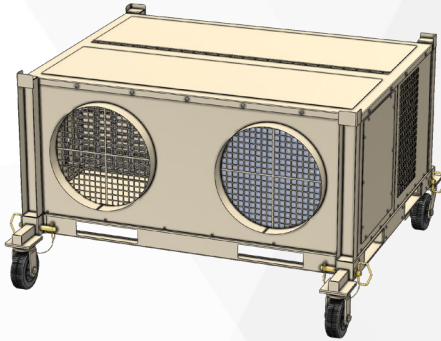
*\*ECU will perform an emergency shutdown if needed to protect itself from catastrophic damage.*

### FEATURES

- Redundant sensors and backup operation modes built into the SMART package.
- Independent sensors for temperature control ensure ECU continues operating.
- Manual rotating switch included for continuous operation in the event that the system fails.
- Emergency VENT mode included.
- Variable refrigerant flow and air flow capabilities coming soon.



## MODEL: 5-Ton Stackable Environmental Control Unit

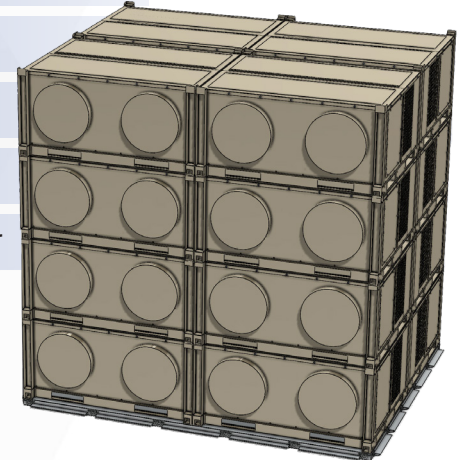


### 5-TON 60K BTU/HR HEAT PUMP

#### Product Specifications

This unit is skid-mounted and allows for stacking 4 units high, fitting 16 units on a 463L pallet for transport.

<b>Nominal Heating Capacity:</b>	99,000 BTU/hr with supplementary heaters at 60 Hz
<b>Nominal Cooling Capacity:</b>	60,000 BTU/hr at 60 Hz
<b>Product Dimensions:</b>	51.75"W x 41.75"L x 25"H
<b>Product Net Weight:</b>	Max 500-lbs
<b>Power Requirements:</b>	208 VAC, 3-phase, 50/60 Hz, 5-wire power



### FEATURES

- Controls the temperature of an adequately enclosed compartment within the variable range of 15°C to 32°C (60°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.
- Four modes - VENT, HEAT, COOL, OFF.
- Outdoor thermostat with an adjustable range of -23°C to 4.4°C (-10°F to 40°F).
- Sealed hermetic compressor.
- 513-A refrigerant.
- 500 CFM adjustable fresh air damper.
- Removable wheel kit for easy mobility without material handling equipment.
- Removable legs to allow ECU to operate 4 inches above the surface.
- 1 standard set of 2"x16" diameter, 10' flex ducts for supply and return.
- 25' detachable power cable.
- 10' condensate hose.

### AVAILABLE OPTIONS

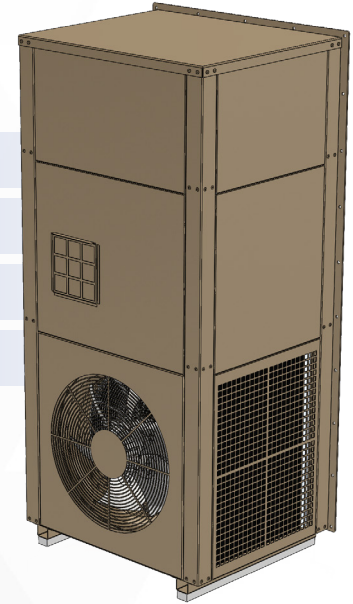
- Supplemental heating unit in a two-stage assembly each containing 6 kW heaters capable of dispersing a total of 41,000 BTU/hr. Over-heating protection included.
- Test diagnostics measured by electronic metering constantly monitors temp and pressure and provides fault detection and isolation.
- Electronic in rush suppressor to reduce LRA at start-up.

## MODEL: 6-Ton Environmental Control Unit

### 6-TON CONSTANT RUN ECU

#### Product Specifications

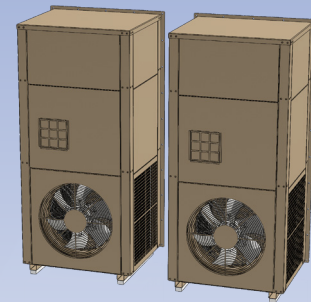
<b>Operating Conditions:</b>	-40°C to 50°C (-40°F to 122°F)
<b>Product Dimensions:</b>	36"W x 31.4"L x 80.4"H
<b>Product Net Weight:</b>	Max 700-lbs
<b>Power Requirements:</b>	120/208 VAC +/- 10%, 50/60 Hz +/- 5%, 3-phase



- EMI/RFI shielded
- R-410A refrigerant. (Optional EPA friendly refrigerants)
- 12kW standard electric heat. (Optional kW increase with breaker size increase.)
- Interchangeable design for side-by-side mounting
- Auto changeover for 2 units with duty cycle or backup modes
- Override Battle Mode switch
- Ring terminal interface for power and control wiring
- Dedicated ECU grounding lug
- Reverse incline evaporator blower - 2,500 CFM
- 50-micron return-air, washable aluminum air filter
- Connection point for GPFU
- 45 CFM fresh air damper with 50-micron washable aluminum air filter
- Washable aluminum condenser intake air filters for operation in dusty conditions
- Gasketed and insulated ECU access panels and interfaces
- Lifting rings for lifting during mounting-assembly (liftable by overhead gantry)
- Standard aluminum mounting flange and feet (liftable by forklift)
- 4-foot condensate drain with air trap
- Customer-specified color CARC coating

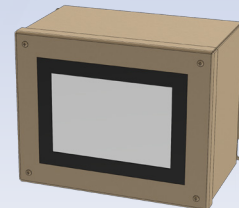
*Additional specifications for side-by-side mounting and controller system are available upon request.*

#### AVAILABLE OPTIONS



##### 12-Tons Total Cooling Capacity

- Side-by-side mounting and operation
- Auto changeover with duty cycle or backup modes
- Common tool field level maintenance



##### Controller System

- Operator panel with Run Time, Operational Status, Interior Temperature, Interior Humidity, Supply and Return Air Temperature Read Outs.

## **EPA-FRIENDLY ENVIRONMENTAL CONTROL UNITS (ECUs)**

**Reliable. Configurable. Proven Worldwide.**

### **Is your project in need of an EPA-friendly Environmental Control Unit (ECU)?**

Snowbird Technologies delivers high-performance, environmentally responsible cooling and heating solutions designed for demanding applications - on land and at sea.

#### **Low GWP Refrigerant Options**

Stay compliant and environmentally responsible with low Global Warming Potential (GWP) refrigerants:

- **R-513A**
- **R-1234YF**
- **R-32**
- **R-454B**

Our refrigerant options help support EPA goals while maintaining reliable system performance.

#### **Configurable Mounting Options**

Designed to fit your space and mission requirements:

- **Vertical Wall Mount**
- **Horizontal Wall Mount**
- **Skid Mount**
- **Split Mount**
- **Portable Units**

Our flexible configurations allow seamless integration into both permanent and mobile installations.

#### **Operational Flexibility**

Snowbird ECUs are engineered for maximum adaptability:

- **Constant Run Operation**
- **Heat Pump Capability**
- **On/Off Control**
- **Lead/Lag Paired Systems**

Whether your application requires continuous environmental control or redundant backup systems, Snowbird delivers dependable solutions.

#### **Proven Performance - Land & Sea**

Why Choose Snowbird?

- **EPA-Friendly Refrigerant options**
- **Multiple Operational Modes**
- **Customizable Mounting Configurations**
- **Proven Global Performance**
- **Designed for Demanding Environments**

Snowbird Technologies has built a reputation for reliability in harsh and mission-critical environments. From terrestrial installations to maritime applications, Snowbird ECUs perform where it matters most.

# **YOUR RELIABLE PARTNER FOR ADVANCED ENVIRONMENTAL CONTROL**

[SNOWBIRDTECH.COM/ECU](http://SNOWBIRDTECH.COM/ECU)

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