



# ***U.S. Military rated***

Developed for the **US ARMED FORCES**

**NORDICAIR** for all your HVAC needs

## Environmental Control Units

# ECU Military

Environmental Control Units



**125°F**

Green

Desert Tan

Environments don't get any harsher than this. Nordic Air's Military ECUs are designed to take on the most severe abuse. Heavy Duty, but light weight aluminum construction. This versatile compact horizontal 48K ECU is designed for easy hook up. When comparing products you will not find more cooling power, in a more compact design. The 48,000 BTU capacity is rated at 125 degrees F ambient temperature.

**Applications:**

Mil-Spec and COTS designs for cooling and heating Tents, Shelters, Vans and ISO Containers.

**Additional Capacities:**

The Nordic Air Family of ECUs includes: 9K, 18K, 24K, 30K, 36K, 42K, 48K, 60K, 72K, 96K and 120K.



For All Your HVAC Needs Call Us Toll-Free

**1-800-533-5484**

(440) 466-6640 Fax: (440) 466-2012

The versatile compact 48K Nordic Air ECU has been tested and passed the following MIL-Standards and ASHRAE Capacity and Test Standards.

**V i b r a t i o n**

Tested IAW MIL STD-810, Procedure 1 (General vibration), Annex A, vibration environmental, category 4-truck / trailer / tracked- restrained cargo, figure 514.5C-2 composite two-wheeled trailer vibration exposure. 60 min / 3 axis random.

**C a p a b i l i t y**

Tested ARI 210, 48,000 BTU at 125 degrees F OAT, 95 / 75 degrees indoor dry bulb / wet bulb.

**E M I**

Tested IAW MIL STD-461E, Method RE102, radiated emissions, electric field 2 MHz to 1 GHz. Method CE102, conducted emissions, power leads, 10KHz to 10 MHz. Method CS101, conducted susceptibility, power leads, 30 Hz to 150 Hz. Method RS103, rated susceptibility, electric field, 2 MHz to 30 GHz.

**H i g h T e m p e r a t u r e O p e r a t i o n ( c o o l i n g )**

Tested IAW ASHRAE STD 37, 125 degree F OAT with 125 degree F return air

**S a l t F o g**

Tested IAW MIL STD 810F, Method 509.4. 48 Hour exposure, 48 hour drying time.

**S o u n d**

Less than 85db, measured 1 meter from the condenser fan discharge.



Figure # 2: Rear view

*Design Features*

- 1 This 48K ECU which is one of the most compact ECUs on the market today produces 48,000 BTU Cool and 14,000 BTU Heat.
- 2 A liquid sight glass is visible from the outside of the enclosure so refrigerant level can be determined without opening up the ECU.
- 3 The evaporator blower is two speeds.
- 4 An hour meter is provided for preventive maintenance planning.
- 5 Easily accessible circuit breakers for power and control voltage are provided.
- 6 A phase monitor is provided to prevent damage because of an improper power supply connection.
- 7 Most spare parts i.e. compressor and electrical components are COTS.
- 8 An adjustable fresh air intake is provided.
- 9 The 48K ECU has two adjustable air vents side mounted as standard. These vents can be attached to the top of the ECU by as needed. See Figure #2
- 10 A remote control package is furnished. Heat-Off-Fan-Auto.

*Model Specification*

**Nordic Air Model Number:** KS4853CAAFHMX

**Weight:** 420 lbs.

**Size (LxWxH):** 46" x 30" x 22"

**Power:** 208V / 3 / 50/60 Hz

**Refrigerant:** R-134a

**Capacity**      **Cool:** 48,000 BTU  
                          **Heat:** 14,000 BTU

**Power Cord:** Optional

