

HDT E2CU-9K

Enhanced Environmental Control Unit (E2CU)



HDT has developed the next generation family of Enhanced ECUs (E2CUs) covering the range of 9,000 BTU/H to 120,000 BTU/H (2.6 kW – 35.2 kW). These ECUs deliver their rated capacity at 125°F (51.6°C) using the environmentally acceptable refrigerant R-410A. The E2CUs deliver Energy Efficiency Ratings (EERs) 20% or more higher than ECUs currently available in the market (as measured in BTU/W).

The HDT E2CU is equipped with comprehensive on-board diagnostics, inrush current limiting, fresh-air input through an independent fresh air fan system, and a two-speed evaporator blower. The unit includes a canvas condenser cover and a power cable.

KEY FEATURES

- 8,500 BTU/H (2.5 kW) cooling at 130°F (54.4°C)
- 9,100 BTU/H (2.7 kW) cooling at 125°F (51.7°C)
- 6,000 BTU/H heat (1.76 kW)
- R-410A high efficiency refrigerant, ozone friendly
- Low inrush current
- Low power consumption
- Low noise
- Rugged design
- Advanced diagnostics



OPTIONS

- 15' (4.57 m) remote cable

The versatile HDT E2CU-9K is designed to the USMC-Enhanced Environmental Control Units (E2CU) interface and performance requirements.

- Verified performance capability:
 - 10,200 BTU/H at 95°F outdoor ambient, 80°F DB/67°F WB indoor ambient.
 - 9,100 BTU/H at 125°F outdoor ambient, 90°F DB/75°F WB indoor ambient.
 - 8,500 BTU/H at 130°F outdoor ambient, 90°F DB/75°F WB indoor ambient.
- Maximum operating conditions: 130°F outdoor ambient and 130°F indoor return air temperature.
- This versatile, light weight HDT E2CU-9K is GSA listed as a COTS Ruggedized ECU. The E2CU has undergone MIL-SPEC tests for MIL-STD 810, vibration, MIL-STD 810F, salt fog, high and low temperature tests per IAW ASHRAE STD 37 and IAW MIL-STD 461E-Method RE-102 radiated emissions and Method CS101 conducted susceptibility.

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HDT E2CU-9K SPECIFICATIONS

Ordering information

| | |
|-----------------|------------------|
| HDT part number | GSQ396ZABNWX11 |
| NSN | 4120-01-597-5423 |
| GSA | X |

Refrigerant

R-410A

ECU capacity

| | | |
|---------|----------------------|----------------|
| Cooling | 10,200 BTU/H at 95°F | 3.0 kW at 35°C |
| Heating | 6,000 BTU/H | 1.76 kW |

Power

| | |
|----------------------|-------------------|
| Voltage (V/Phase/Hz) | 115/1/50-60VAC |
| Max power | 2.2 kW, 19.5 Amps |
| Circuit breaker | 30 Amp. |

Physical characteristics

| | | |
|------------------------|--------------------|-----------------|
| Dimensions (L x W x H) | 26" x 23.75" x 16" | 66 x 60 x 41 cm |
| Power cord length | 25' | 7.62 m |

System weight

155 lbs 70.3 kg

Operator controls

Local or remote (optional)

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