

# HDT 120K MILITARY ECU

*U.S. Military Rated, Developed for the U.S. Armed Forces*



HDT Military ECUs withstand the most severe environments and conditions. With heavy duty, but lightweight aluminum construction, this ECU is designed for quick, easy transport and hook-up. The Mil-Spec and COTS units are designed for cooling and heating expeditionary shelters, hardwall shelters, vans and ISO containers.

## KEY FEATURES

- There is an optional storage compartment inside the ECU which is accessible by easy quarter turn fasteners. This compartment houses two 10' (3 m) lengths of 12" (30.5 cm), one 10' (3 m) length of 18" (45.72 cm) insulated flexible ducts, a 30 foot (9.14 m) power cable and a remote control with cable.
- All openings for supply and return air have covers for transport or storage
- A liquid sight glass is visible from the outside of the enclosure so refrigerant level can be determined without opening up the ECU
- Access ports for pressure readings and refrigeration charging are located outside the enclosure
- Four eyes provided for lifting and tie down
- An hour meter for preventive maintenance planning
- Easily accessible circuit breakers for power and control voltage
- The ECU can be mounted on an optional skid base for ease of movement
- The unique bolted frame design allows for easy repair. All frame members are available as spare parts.
- Phase monitor
- Standard trailer mounting points
- Load shedding and feedback

The versatile 120K ECU has been tested and passed the following MIL-Standards and ASHRAE Capacity and Test Standards.

- Vibration Tested: IAW MIL STD-810, 514.5 60 min per axis, sinusoidal cycling 5-200-5Hz, 12 minute sweep, acceleration level 1.5g
- Capability Tested: IAW ASHRAE STD 37. 105,000 BTUs at 95 degrees OAT 80/67 indoor dry bulb/wet bulb. 123,800 BTUs at 125 degrees OAT/125 indoor dry bulb
- EMI: Tested IAW MIL STD-461E, Method RE102, radiated emissions, electric field 2 MHz to 1 GHz. Method CE102, conducted emissions, power leads, 10 kHz to 10 MHz. Method CS101, conducted susceptibility, power leads, 30 Hz to 150 kHz. Method RS103, rated susceptibility, electric field, 2 MHz to 30 GHz
- Low Temperature Operation (cooling): Tested IAW ASHRAE STD 37, 20°F OAT with 70°F return air
- High Temperature Operation (cooling): Tested IAW ASHRAE STD 37, 125°F OAT with 125°F return air
- Salt Fog: Tested IAW MIL STD 810F, Method 509.4. 48 Hour exposure, 48 hour drying time
- Sound: Less than 85db, measured 1 meter from the condenser fan discharge

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## 120K MILITARY ECU SPECIFICATIONS

### Ordering information

#### Available colors<sup>1</sup>

Green

Part number GL1083ZAADFWA14

NSN 4120-01-581-1227

On GSA Contract X

**Refrigerant** R-407C

#### ECU Capacity

Cooling<sup>2</sup> 112,000 BTU/H 32.8 kW

Heating 47,000 BTU/H 13.77 kW

#### Power

Voltage (V/Phase/Hz) 208/3/50-60VAC

Control voltage 24/1/50-60VAC

Max power

Cooling<sup>3</sup> 20,600 Watts / 64 Amps

Heating 15,200 Watts / 43 Amps

Compressor soft start

Capability Yes

Circuit breaker 70 Amp, 3 Pole

Power cable length<sup>4</sup> 30' 9.1 m

Power cable connector 75-190232-17P (4 Pin, 3P-E)

#### Air flow

Evaporator 2,810 ACFM 4,774 m<sup>3</sup>/h

**Dimensions** (L x W x H) 74.88" x 34.88" x 43.25" 190 x 87 x 110 cm

**System weight** 764 lbs 347 kg

#### Operating environment

Cooling 20° to 130°F -6.7° to 54.4°C

Heating -25° to 70°F -31.8° to 21°C

Storage temps -60° to 160°F -51° to 71°C

**Noise** <85 dbA

1 Units also available in CARC paint, please ask your HDT representative

2 Based on outside air entering the condenser @ 95°F (35°C) dry bulb and 80°F (26.6°C) dry bulb / 67°F ( 19.4°C) wet bulb indoor air entering the evaporator section

3 Based on a heat soaked shelter with outdoor-air and indoor-air entering the ECU @ 125°F (52.7°C) dry bulb

4 Detached, ships loose

Products, product specifications and data are subject to change without notice to improve reliability, function, and/or design. Please contact Customer Service at 800.969.8527 for the most up-to-date product information.

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Revision 3 07-16 01-05-02-0109