

# HDT 36K MILITARY ECU

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



HDT's Military ECUs are designed to withstand the most severe environments and conditions. Heavy duty, but light weight aluminum construction. This ECU is designed for quick, easy transport and hook-up.

**Applications:** The Mil-Spec and COTS are designed for cooling and heating expeditionary shelters, hardwall shelters, vans and ISO containers.

## KEY FEATURES

- There is a 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) insulated flexible ducts, a 50 foot (15.24 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
- There are four eyes for lifting and tie down
- An hour meter for preventive maintenance planning
- Easily accessible circuit breakers for power and control voltage are provided
- The ECU is mounted on a skid base for ease of movement
- The unique bolted frame design allows for easy repair. All frame members are available as spare parts.
- A phase monitor
- Duct connection for NBC filtration equipment

The versatile skid mounted 36K ECU has been tested and passed the following MILStandards 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. 38,000 BTUs at 95 degrees OAT 80/67 indoor dry bulb/wet bulb. 34,100 BTUs at 125 degrees OAT, 90/75 indoor dry bulb/wet 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 Hz. 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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## 36K MILITARY ECU SPECIFICATIONS

Ordering information	Without Remote, No Ducts		With Remote, With Duct	
<b>Available colors<sup>1</sup></b>				
Green				
HDT part number	62-N0364073PHRGN		62-N0364073PHGN	
Mfg part number	GL0383ZAADWYX1Z		GL0383ZAADWYX11	
NSN	N/A		4120-01-581-1276	
On GSA Contract	X		X	
<b>Refrigerant</b>	R-407C		R-407C	
Charge	4.4 lbs	2.0 kg	4.4 lbs	2.0 kg
<b>ECU Capacity</b>				
Cooling <sup>2</sup>	38,000 BTU/H	11.1 kW	38,000 BTU/H	11.1 kW
Heating	31,000 BTU/H	9.1 kW	31,000 BTU/H	9.1 kW
<b>Power</b>				
Voltage (V/Phase/Hz)	208/3/50-60VAC		208/3/50-60VAC	
Control voltage	24/1/50-60VAC		24/1/50-60VAC	
Max power				
Cooling <sup>3</sup>	7,100 Watts		7,100 Watts	
Heating	10,150 Watts		10,150 Watts	
Compressor soft start capability	Single start, constant run		Single start, constant run	
Main onboard power circuit breaker	40 Amp, 3 Pole		40 Amp, 3 Pole	
Power cable length <sup>4</sup>	50'	15.2 m	50'	15.2 m
Power cable connector	MS3102R24-22P (4 Pin, 3P-E)			
<b>Air flow</b>				
Evaporator	1,560 ACFM	2,654 m <sup>3</sup> /h	1,560 ACFM	2,654 m <sup>3</sup> /h
Condenser	2,380 ACFM	4,057 m <sup>3</sup> /h	2,380 ACFM	4,057 m <sup>3</sup> /h
<b>Dimensions (L x W x H)</b>	47.62" x 37" x 42.50"	121 x 94 x 108 cm	47.62" x 37" x 42.50"	121 x 94 x 108 cm
<b>System weight</b>	468 lbs	212 kg	468 lbs	212 kg
<b>Operating environment</b>				
Cooling	20° to 130°F	-6.7° to 54.4°C	20° to 130°F	-6.7° to 54.4°C
Heating	-40° to 70°F	-40° to 21°C	-40° to 70°F	-40° to 21°C
Storage temps	-60° to 160°F	-51° to 71°C	-60° to 160°F	-51° to 71°C
<b>Noise</b>	85 dbA		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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