

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	
Available colors¹					
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	
Refrigerant		R-407C		R-407C	
Charge		4.4 lbs	2.0 kg	4.4 lbs	2.0 kg
ECU Capacity					
Cooling ²		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
Power					
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 ³		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 ⁴		50'	15.2 m	50'	15.2 m
Power cable connector		MS3102R24-22P (4 Pin, 3P-E)			
Air flow					
Evaporator		1,560 ACFM	2,654 m ³ /h	1,560 ACFM	2,654 m ³ /h
Condenser		2,380 ACFM	4,057 m ³ /h	2,380 ACFM	4,057 m ³ /h
Dimensions (L x W x H)		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
System weight		468 lbs	212 kg	468 lbs	212 kg
Operating environment					
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
Noise		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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