

EEECU-M18-2 BASIC (400/3/50VAC)

*Energy Efficient Environmental
Control Unit (EEECU)*



The EEECU-M18-2 BASIC Energy Efficient Environmental Control Unit (EEECU) is designed for operation in severe environments, providing outstanding performance even when subjected to rough handling, sand, dust, rain, snow, or extreme heat. Whether positioned on the ground outside an expeditionary shelter or trailer mounted for portability, the EEECU-M18-2 BASIC is qualified for operation in temperatures ranging from -45.6° to 54.4°C (-50° to 130°F). The unit features onboard storage capability for optional flexible air ducts and power cord simplifying the EEECU-M18-2 BASIC set-up and teardown processes.

The EEECU-M18-2 BASIC operator control offers OFF/COOL/HEAT/ VENT operating modes and a manually adjustable thermostat. A power quality analyzer is embedded in the control panel to prevent operation during poor power quality or phase reversal conditions. Resettable circuit breakers are provided for the main power, control and fan circuits.

KEY FEATURES

- Corrosion-resistant, powder coated aluminum frame, optional CARC coating available
- Refrigerant Charge is less than <2.99 kg (R-410A)
- Reliable, energy efficient Copeland Hermetic Scroll Compressor
- Hot-gas-bypass valve provides freeze protection during low load conditions
- Liquid Quench valve provides compressor cooling during high ambient operation
- Fin-Tube type evaporator coil assures optimal heat transfer
- Incline operation 10° from horizontal any direction
- Lightweight all-aluminum micro-channel condenser coil with 1.8mm pitch (14 fins per inch) allows sand, dust and organic materials to pass-thru the fins
- Washable/cleanable evaporator air filter
- CBRN (NBC) ready, use the optional ducts and adapter kit (HDT part number AF-9454311, NSN 4130-01-434-7665)
- On board storage basket for air ducts and power cable

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SPECIFICATIONS

Ordering information

HDT part number	603-H007483-001
NSN	4120-01-645-5918
On GSA Contract	

Available Colors¹

Tan 33446 (686) per FED-STD-595
Green 34094 (393) per FED-STD-595

Refrigerant

R-410A

Charge	5 lbs	2.27 kg
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ECU Capacity

Cooling ²	61,416 BTU/H	18 kW
Heating	38,000 BTU/H	11.1 kW

Power

Voltage (V/Phase/Hz)	400/3/50VAC	
Control voltage	24/1/50VAC	
Max power		
Cooling	10,850 Watts / 19 Amps (400V)	
Heating	10,200 Watts / 16.3 Amps (400V)	
Compressor soft start capability	Yes	
Main onboard power circuit breaker	25 Amp., 3 Pole	
Power cable length ⁴	50'	15.2 m
Power cable connector	MS-3102R24-79P, 5 Pin (3P-N-E)	

Air flow

Evaporator ³	1,400 CFM	2,375 m ³ /h
Condenser	4,400 CFM	7,475 m ³ /h
Heating	600 CFM	1,020 m ³ /h

Dimensions (L x W x H) 45.75" x 35.75" x 47.38" 116 x 91 x 120 cm

System weight 540 lbs 245 kg

Operating environment

Cooling	40° to >130°F	4.4° to >54.4°C
Heating	-50° to 90°F	-45.6° to 32°C
Storage temps	-60° to 160°F	-51° to 71°C

Noise <70 dBA

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

2 Based on outside air entering the condenser @ 52°C (125°F) dry bulb and 32°C (90°F) dry bulb / 23.9°C (75°F) wet bulb indoor air entering the evaporator section

3 Airflow at 7.6 mm WG (0.3 IWG) External Static Pressure

4 Detached, ships loose

5. 20 m (65.6') remote cable, duck vavle and related gaskets, no auto start, overpack includes duct sleeves, duct bags, couplers, nbc adapter, cap, and various clamps.

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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NON-EXPORT CONTROLLED INFORMATION

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