

# EEECU-M18-1 SEL (400/3/50VAC)

Energy Efficient Environmental Control Unit (EEECU)



The EEECU-M18-1 SEL 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-M18-1 SEL is qualified for operation in temperatures ranging from -45.6° to 54.4°C (-50° to 130°F). The unit features onboard storage of two 3 m (10') long flexible air ducts and a 10 m (33') long power cord simplifying the EEECU-M18-1 SEL set-up and teardown processes.

The EEECU-M18-1 SEL unit's onboard / remote operator control offers OFF/COOL/HEAT/VENT operating modes and a manually adjustable thermostat. An optional remote cable is available. The full onboard microprocessor based diagnostics and power quality features are readily accessible, and 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
- 1hp (746W) evaporator / heater blower operates at low speed while in the heating mode
- Reliable, energy efficient Copeland Hermetic Scroll Compressor
- Compressor inrush control limits peak starting current
- Hot-gas bypass valve provides freeze protection during low load conditions
- Liquid Quench valve provides compressor cooling during high ambient operation
- Full onboard diagnostics provide superheat, sub-cooling, operating pressure and temperatures information to the technician
- Fin-Tube designed evaporator coil with epoxy coating for corrosion protection
- Incline operation 10° from horizontal any direction
- Lightweight all-aluminum micro-channel condenser coil with 14 fins per inch (1.8mm pitch) allows sand, dust and organic materials to pass through 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)

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## EEECU-M18-1 SEL ECU SPECIFICATIONS

### Ordering information

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

Green 34094 (393) per FED-STD-595

Part number	GL0599ZAADWFX11 (includes overpack)
NSN	N/A
On GSA Contract	X

Tan 33446 (686) per FED-STD-595

Part number	GL0599ZAADWFX21 (includes overpack)
NSN	N/A
On GSA Contract	X

#### Refrigerant

Refrigerant	R-410A
Charge	5 lbs 2.27 kg

#### ECU Capacity

Cooling <sup>2</sup>	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	10,500 Watts / 15.3 Amps (400V)
Compressor soft start capability	Yes
Main onboard power circuit breaker	25 Amp., 3 Pole
Power cable length <sup>4</sup>	50' 15.2 m
Power cable connector	MS-3102R24-79P, 5 Pin (3P-N-E)

#### Air flow

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

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

**System weight** 640 lbs 290 kg

#### Operating environment

Cooling	0° to >130°F	-17° to >54.4°C
Heating	-50° to 70°F	-45.6° to 21°C
Storage temps	-60° to 160°F	-51° to 71°C

**Noise** <70 dBA



<sup>1</sup> Units also available in CARC paint, please ask your HDT representative

<sup>2</sup> 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

<sup>3</sup> Airflow at 7.6mm WG (0.3 IWG) External Static Pressure

<sup>4</sup> 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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