

# F100-4 COMMERCIAL ECU

60,000 BTU Air Conditioning / Heating Unit



The rugged HDT F100-4 Environmental Control Unit (ECU) is a compact, lightweight, high-efficiency ECU that operates in severe environments, with proven performance in sand, dust, rain, snow and extreme heat. US Army qualified for operation in temperatures ranging from -50° to 130°F (-45.6° to 54.4°C), the F100-4 ECU can be positioned on the ground outside the shelter or trailer-mounted for easy placement. Two 6-foot-long flexible air ducts, a 15-foot condensate drain hose and a 25-foot power cord store onboard to simplify the set-up and teardown process.

The F100-4 ECU features onboard controls offering OFF / COOL / HEAT / VENT modes and a manually-adjustable thermostat. Illuminated fault indicators allow for troubleshooting without opening any access covers. Voltage and frequency meters display the power available to the ECU. A power quality analyzer is embedded in the control panel and will prevent the ECU from operating poor power quality or phase reversal conditions. Resettable circuit breakers are provided for the main power, convenience outlet and control circuit.

## KEY FEATURES

- Nominal 60,000 BTU/hr cooling, 10 kW heating
- High pressure evaporator blower (up to 2 inwg external static pressure)
- State of the art Copeland Digital Scroll™ Compressor with unloaded soft start feature.
  - Self-regulating capacity control from 10% to 100% based on temperatures.
- Less than 11.55 kW power consumption in the heating and cooling modes
- GFCI-Protected service outlet; 115VAC/1/60-50 Hz, 10A
- Low-noise level <76dBA at 1 meter
- Lightweight design, 540 lbs (245 kg)
- Optimized to pack-out eight F100-60K ECU's per Tricon shipping container
  - Stacked two high during transit with captive latching bolts
  - Stacked four high during storage
  - Fork lift pockets
  - Lifting eyes

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## SPECIFICATIONS

### Available colors (Powdercoat paint<sup>1</sup>)

Green

HDT part number 603-H015262-001

NSN 4120-01-617-1273

On GSA Contract 62-F100-60K-P1

Tan

HDT part number 603-H015262-002

NSN 4120-01-617-1282

On GSA Contract 62-F100-60K-P2

### Refrigerant

HFC-410A

Charge 6lbs, 2oz 2.8kg

### ECU Capacity

Cooling total<sup>2</sup> 58,000 BTU/H 17 kW

Cooling sensible<sup>2</sup> 39,000 BTU/H 11.4 kW

Heating 34,140 BTU/H 10 kW

### Power

Voltage 208VAC +10%/-5%, 3 Phase, 50/60Hz

Max power 11,550 Watts (35.1A)

Soft start capability Yes

Main circuit breaker 60A

Control circuit breaker 1A

Power cable Hardwired, 25' (7.6m) long, 5 wire, with connector (MS90556C32412P)

### Air flow

Evaporator<sup>3</sup> 1,900 SCFM 3,229 m<sup>3</sup>/h

Condenser 6,000 SCFM 10,195 m<sup>3</sup>/h

### Temperature range

Operating

Cooling 40° to 130°F 4.4° to 54.4°C

Heating -50° to 80°F -45° to 26.6°C

Storage -60° to 160°F -51° to 71°C

### Dimensions

L x W x H 43" x 34.5" x 40" 109.2 x 87.6 x 101.7 cm

Stacked Height 79.8" 202.7 cm

### System weight<sup>4</sup>

540 lbs 245 kg

### Noise

76 dBA @ 3.3' (1m)

### Evaporator air filter

Washable, reusable

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

2 With air entering the evaporator @ 90°F (32°C) dry bulb/ 75°F (23.8°C) wet bulb, 125°F (51.6°C) dry bulb outside ambient, total sensible/latent

3 At 1" (25mm) WC External

4 With supply-air and return-air ducts, 25' (7.6m) power cord, 15' (4.5m) drain hose

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.



The HDT F100-4 is size-optimized to pack-out eight ECUs per Tricon shipping container

## HDT Expeditionary Systems, Inc.

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NON-EXPORT CONTROLLED INFORMATION

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