

# 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 iwg 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
- 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
- GFCI-Protected service outlet; 115VAC/1/60-50 Hz, 10A
- Low-noise level <76dBA at 1 meter
- Lightweight design, 540 lbs (245 kg)



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

# F100-4 COMMERCIAL ECU

BTU Air Conditioning / Heating Unit



Ordering information		
<b>Available colors</b> (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	
<b>Refrigerant</b>	HFC-410A	
Charge	6lbs, 2oz	2.8kg
<b>ECU Capacity</b>		
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
<b>Power</b>		
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)	
<b>Air flow</b>		
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
<b>Temperature range</b>		
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
<b>Dimensions</b>		
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
<b>System weight<sup>4</sup></b>	540 lbs	245 kg
<b>Noise</b>	76 dBA @ 3.3' (1m)	
<b>Evaporator air filter</b>	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.

## HDT Expeditionary Systems, Inc.

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