

**ENHANCED ENVIRONMENTAL CONTROL UNIT, 0.75-TON, 9,000 BTU/hr, 60 Hz**

TAMCN: B00747B

I.D: 11453C

NSN: 4120-01-597-5423



**Functional Description**

The Enhanced Environmental Control Unit (E2CU), 0.75 Ton, 9,000 BTU/hr Shelter Mounted E2CU is capable of providing complete environmental control, to include cooling, heating, dehumidification and filtering for various types of portable military shelters or tactical vehicles. The 0.75 Ton E2CU addresses the specialized requirement that certain units in the Marine Corps have for a highly mobile environmental control capability.

**Technical Description**

**Information**

Manufacturer: HDT  
 Model: GSQ396ZABNWX11

**Power**

**Input**  
 AC: 120 VAC, 50/60Hz  
 Phase: Single-Phase  
 Wires (AWG): 3-Wire/8  
 Connector (AMP): 20

**Dimensions**

Length (in): 26.0  
 Width (in): 23.8  
 Height (in): 16.0  
 Weight (lbs): 155.0  
 Square (ft<sup>2</sup>)/Cube (ft<sup>3</sup>): 4.3/5.7

**Environmental Limitations**

Refrigerant: R-410A  
 Max. Ambient Cooling (°F): 130.0  
 Min. Ambient Cooling (°F): 45.0  
 Min. Ambient Heating (°F): -25.0

<u>Environmental Ambient Condition</u>	<u>Current Draw (Amps)</u>	<u>Power Draw (kW)</u>	<u>Capacity (BTU/hr)</u>
Cooling at 95°F:	14.1	1.635	10,200
Cooling at 125°F:	17.5	2.023	9,100
Heating:	17.2	1.993	5,600

**Transportability:** Transported with supported shelter or as secured cargo.

**ENHANCED ENVIRONMENTAL CONTROL UNIT, 1.5-TON, 18,000 BTU/hr**

**TAMCN: B00037B**

**I.D: 11080C**

**NSN: 4120-01-599-7691**



**Functional Description**

The Enhanced Environmental Control Unit (E2CU), 1.5-Ton, 18,000 BTU/hr, is an electric motor driven shelter mounted E2CU capable of providing cooled, dehumidified, heated, and filtered air to a shelter or van. The 1.5-Ton E2CU is comprised of an electrical subsystem, a refrigeration subsystem and the structure, i.e., the cabinet and frame. The system is designed to provide 18,000 BTU/hr of cooling and 14,700 BTU/hr of heating. Low setting provides a minimum of 7,000 BTU/hr of heat.

**Technical Description**

**Information**

Manufacturer: HDT  
 Model: GS1H93ZAANWFX11

**Power**

**Input**  
 AC: 208 VAC, 50/60Hz  
 Phase: 3-Phase  
 Wires (AWG): 4-Wire/12  
 Connector (AMP): 20

**Dimensions**

Length (in): 28.0  
 Width (in): 30.0  
 Height (in): 20.0  
 Weight (lbs): 230.0  
 Square (ft<sup>2</sup>)/Cube (ft<sup>3</sup>): 5.8/9.7

**Environmental Limitations**

Refrigerant: R-410A  
 Max. Ambient Cooling (°F): 125.0  
 Min. Ambient Cooling (°F): 45.0  
 Min. Ambient Heating (°F): 25.0

**Performance**

Air Flow Cooling (SCFM): 600  
 Air Flow Heating (SCFM): 470

<u>Environmental Ambient Condition</u>	<u>Current Draw (Amps/phase)</u>	<u>Power Draw (kW)</u>	<u>Capacity (BTU/hr)</u>
Cooling at 95°F:	10.7	3.833	20,900
Cooling at 125°F:	13.6	4.903	18,500
Heating:	13.8	4.956	14,300

**Replaced TAMCNs:** B00027B, B00127B, Air Conditioner.

**Transportability:** Transported with supported shelter or as secured cargo.

**NOTE:** Forklift support is required.

**ENVIRONMENTAL CONTROL UNIT, 3-TON, 36,000 BTU/hr**

**TAMCN: B00147B**

**I.D: 11082B**

**NSN: 4120-01-581-1276**



**Functional Description**

The Environmental Control Unit (ECU), 3-Ton, 36,000 BTU/hr is a packaged system designed to provide conditioned air to a shelter or van. The 3-Ton ECU, with a built-in control box or remote controller, operates using 208 VAC, 3-phase 50/60 Hz power supplied by a generator or shore power. The cooling capacity is not less than 38,100 BTU/hr at 95°F or 34,100 BTU/hr at 125°F ambient outside temperature. The heating system is furnished with a 31,000 BTU/hr resistive type heater.

**Technical Description**

**Information**

Manufacturer: HDT  
 Model: GL0383ZAADWYX11

**Power**

**Input**  
 AC: 208 VAC, 50/60Hz  
 Phase: 3-Phase  
 Wires (AWG): 4-Wire/8  
 Connector (AMP): 30

**Dimensions**

Length (in): 47.6  
 Width (in): 37.0  
 Height (in): 42.4  
 Weight (lbs): 472.0  
 Square (ft<sup>2</sup>)/Cube (ft<sup>3</sup>): 12.2/43.3

**Environmental Limitations**

Refrigerant: R407C  
 Max. Ambient Cooling (°F): 125.0  
 Min. Ambient Cooling (°F): 50.0  
 Min. Ambient Heating (°F): -25.0

<u>Environmental Ambient Condition</u>	<u>Current Draw (Amps/phase)</u>	<u>Power Draw (kW)</u>	<u>Capacity (BTU/hr)</u>
Cooling at 95°F:	16.0	5.765	38,099
Cooling at 125°F:	19.6	7.038	34,100
Cooling at 130°F:	22.1	7.696	32,128
Heating:	28.7	10.371	31,000

**Performance**

Air Flow (CFM): 1,325

**Replaced TAMCNs:** B0014, ECU 3-TON, 36,000 BTU, R-22, NSN: 4120-01-526-2397; B0006, Air Conditioner, NSN: 4120-01-244-6385; B0012, Air Conditioner, NSN: 4120-01-495-9488; B2004, Skid Assembly, Air Conditioner, NSN: 4120-00-327-5035; B2006, Skid Assembly, Air Conditioner, NSN: 4120-00-575-7200.

**Transportability:** Treat as cargo.

**NOTE:** Forklift support is required.

**ENVIRONMENTAL CONTROL UNIT, 5-TON, 60,000 BTU/hr**

**TAMCN: B0087B**

**I.D: 11084B**

**NSN: 4120-01-581-2260**



**Functional Description**

The Environmental Control Unit (ECU), 5-Ton, 60,000 BTU/hr is a packaged system designed to provide conditioned air to a shelter or van. The 5-Ton ECU, with a built-in control box or remote controller, operates using 208 VAC, 3-phase, 50/60 Hz power supplied by a generator or shore power. Cooling capacity is not less than 60,000 BTU/hr at 95°F or 54,200 BTU/hr at 125°F ambient outside temperature. The heating system is furnished with a 37,000 BTU/hr resistive type heater in addition to fan heat.

**Technical Description**

**Information**

Manufacturer: HDT  
 Model: GL0563ZAADWYX11

**Power**

**Input**  
 AC: 208 VAC, 50/60Hz  
 Phase: 3-Phase  
 Wires (AWG): 4-Wire/6  
 Connector (AMP): 60

**Dimensions**

Length (in): 47.6  
 Width (in): 37.0  
 Height (in): 47.4  
 Weight (lbs): 560.0  
 Square (ft<sup>2</sup>)/Cube (ft<sup>3</sup>): 12.2/48.4

**Environmental Limitations**

Refrigerant: R407C  
 Max. Ambient Cooling (°F): 125.0  
 Min. Ambient Cooling (°F): 50.0  
 Min. Ambient Heating (°F): -25.0

**Performance**

Air Flow (CFM): 2,000

<u>Environmental Ambient Condition</u>	<u>Current Draw (Amps/phase)</u>	<u>Power Draw (kW)</u>	<u>Capacity (BTU/hr)</u>
Cooling at 95°F:	26.4	9.545	62,100
Cooling at 125°F:	33.9	12.232	54,200
Cooling at 130°F:	34.6	12.496	46,947
Heating:	35.0	12.646	37,100

**Replaced TAMCNs:** B00027B, B00127B, Air Conditioner.

**Transportability:** Treat as cargo.

**NOTE:** Forklift support is required.

## SMALL FIELD REFRIGERATION SYSTEM (SFRS)

TAMCN: B00757B

I.D: 11609A

NSN: 4130-01-565-7655



### Functional Description

The Small Field Refrigeration System (SFRS) is an 8'x8'x6'5.5" insulated TRICON container that can be interlocked with two additional TRICONS to meet ISO standards. An integrated externally-powered Refrigeration Unit (RU) provides controlled refrigeration or freezing of perishable items. The SFRS will support numerous customers, to include Marine Corps Field Food Service Systems.

### Technical Description

#### Information

Manufacturer: Sea Box Inc.  
Model: SB531.0

#### Power

**Input**  
AC: 120/208 VAC, 50/60Hz  
Phase: 3-Phase  
Wires (AWG): 5-Wire

Connector (AMP): 20

#### **Power Consumption (kW)**

Cooling at 95°F: 3.2  
Cooling at 125°F: 4.4

#### Dimensions

Length (in): 77.5  
Width (in): 96.0  
Height (in): 96.0  
Weight (lbs) (RU included): 3,900.0  
Interior Cube (ft<sup>3</sup>): 282.0  
Exterior Square (ft<sup>2</sup>)/Cube (ft<sup>3</sup>): 51.6/413.3

#### Environmental Limitations

Refrigerant: R-404a  
Max. Ambient Cooling (°F): 130.0  
Min. Ambient Heating (°F): -25.0

**Transportability:** Transported as ancillary cargo worldwide via commercial rail, marine and highway.

**NOTE:** The SFRS is supplied with a 20 AMP connector and a 12 AWG power supply cable. Do not use a 30 AMP connector with this power supply cable.

## LARGE FIELD REFRIGERATION SYSTEM (LFRS)

TAMCN: B00497B

I.D: 11574A

NSN: 4130-01-562-9914



### Functional Description

The Large Field Refrigeration System (LFRS) is a large, insulated, high payload container system with built in refrigeration. The LFRS is dual mode to refrigerate or freeze perishable items. The mission of the LFRS is to provide the capability to transport and store large, perishable cargo in a climate controlled, International Organization for Standardization (ISO) container.

### Technical Description

#### Information

Manufacturer: Sea Box Inc.  
 Model: SB541.0

#### Power

**Input**  
 AC: 380/480 or 190/230 VAC, 50/60Hz  
 Phase: 3-Phase  
 Wires (AWG): 4-Wire/6  
 Connector (AMP): 60

#### **Power Consumption (kW)**

Cooling at 95°F: 10.0  
 Cooling at 125°F: 13.4

#### Dimensions

Length (in): 238.5  
 Width (in): 96.0  
 Height (in): 96.0  
 Weight (lbs): 7,182.0  
 Interior Cube (ft<sup>3</sup>): 944.0  
 Exterior Square (ft<sup>2</sup>)/Cube (ft<sup>3</sup>): 159.0/1,272.0

#### Environmental Limitations

Refrigerant: R-134A  
 Max. Ambient Cooling (°F): 158.0  
 Min. Ambient Heating (°F): -58.0

**Transportability:** The LFRS is transported as ancillary cargo worldwide via commercial rail, marine and highway.

**NOTE:** The LFRS requires forklift support.