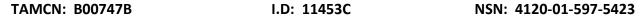
ENHANCED ENVIRONMENTAL CONTROL UNIT, 0.75-TON, 9,000 BTU/hr, 60 Hz





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

<u>Information</u>	
Manufacturer:	HDT
Model:	GSQ396ZABNWFX11
<u>Power</u>	
Input	
AC:	120 VAC, 50/60Hz
Phase:	Single-Phase
Wires (AWG):	3-Wire/8
Connector (AMP):	20

Environmental Ambient Condition	Current Draw (Amps)	Power Draw (kW)	Capacity (BTU/hr)
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

Dim	ensions
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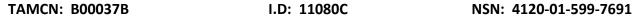
Length (in):	26.0
Width (in):	23.8
Height (in):	16.0
Weight (lbs):	155.0
Square (ft²)/Cube (ft³):	4.3/5.7

Environmental Limitations

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

<u>Transportability</u>: Transported with supported shelter or as secured cargo.

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





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

<u>Information</u>				<u>Dimensions</u>	
Manufacturer:			HDT	Length (in):	2
Model:		GS1H93ZAAI	NWFX11	Width (in):	3
<u>Power</u>				Height (in):	2
Input				Weight (lbs):	23
AC:		208 VAC, 50/60Hz		Square (ft ²)/Cube (ft ³):	5.8/
Phase:	3-Phase		3-Phase	Environmental Limitations	
Wires (AWG):	4-Wire/12		Wire/12	Refrigerant:	R-41
Connector (AMP):			20	Max. Ambient Cooling (°F):	12
Environmental	Current Draw	Power Draw	Capacity	Min. Ambient Cooling (°F):	4
Ambient Condition			(BTU/hr)	Min. Ambient Heating (°F):	2
Cooling at 95°F:	10.7	3.833	20,900	<u>Performance</u>	
Cooling at 125°F:	13.6	4.903	18,500	Air Flow Cooling (SCFM):	ϵ
Heating:	13.8	4.956	14,300	Air Flow Heating (SCFM):	4

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

<u>Information</u>				<u>Dimensions</u>	
Manufacturer:			HDT	Length (in):	47.6
Model:		GL0383ZAA	DWYX11	Width (in):	37.0
<u>Power</u>				Height (in):	42.4
Input				Weight (lbs):	472.0
AC:		208 VAC,	50/60Hz	Square (ft ²)/Cube (ft ³):	12.2/43.3
Phase:			3-Phase	Environmental Limitations	
Wires (AWG):			4-Wire/8	Refrigerant:	R407C
Connector (AMP):			30	Max. Ambient Cooling (°F):	125.0
Environmental	Current Draw	Power Draw	Capacity	Min. Ambient Cooling (°F):	50.0
Ambient Condition	(Amps/phase)	(kW)	(BTU/hr)	Min. Ambient Heating (°F):	-25.0
Cooling at 95°F:	16.0	5.765	38,099	Performance	
Cooling at 125°F:	19.6	7.038	34,100		4 225
Cooling at 130°F:	22.1	7.696	32,128	Air Flow (CFM):	1,325
Heating:	28.7	10.371	31.000		

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

<u>Information</u>				<u>Dimensions</u>	
Manufacturer:			HDT	Length (in):	
Model:		GL0563ZAA	DWYX11	Width (in):	
Power				Height (in):	
Input				Weight (lbs):	
AC:		208 VAC,	50/60Hz	Square (ft ²)/Cube (ft ³):	12.
Phase:			3-Phase	Environmental Limitations	
Wires (AWG):			4-Wire/6	Refrigerant:	
Connector (AMP):			60	Max. Ambient Cooling (°F):	
Environmental	Current Draw	Power Draw	Capacity	Min. Ambient Cooling (°F):	
Ambient Condition	(Amps/phase)	(kW)	(BTU/hr)	Min. Ambient Heating (°F):	
Cooling at 95°F:	26.4	9.545	62,100	Performance	
Cooling at 125°F:	33.9	12.232	54,200		
Cooling at 130°F:	34.6	12.496	46,947	Air Flow (CFM):	
Heating:	35.0	12.646	37,100		

Replaced TAMCNs: B00027B, B00127B, Air Conditioner.

 $\underline{\textbf{Transportability}} : \ \mathsf{Treat} \ \mathsf{as} \ \mathsf{cargo}.$

NOTE: Forklift support is required.

SMALL FIELD REFRIGERATION SYSTEM (SFRS)





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

<u>Information</u>		<u>Dimensions</u>	
Manufacturer:	Sea Box Inc.	Length (in):	77.5
Model:	SB531.0	Width (in):	96.0
<u>Power</u>		Height (in):	96.0
Input		Weight (lbs) (RU included):	3,900.0
AC:	120/208 VAC, 50/60Hz	Interior Cube (ft ³):	282.0
Phase:	3-Phase	Exterior Square (ft ²)/Cube (ft ³):	51.6/413.3
Wires (AWG):	5-Wire	Environmental Limitations	
Connector (AMP):	20	Refrigerant:	R-404a
Power Consumption (kW)		Max. Ambient Cooling (°F):	130.0
Cooling at 95°F:	3.2	Min. Ambient Heating (°F):	-25.0
Cooling at 125°F:	4.4		
Transportability: Transport	ed as ancillary cargo worldw	vide via commercial rail, marine and highv	vay.

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)





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

<u>Information</u>		<u>Dimensions</u>	
Manufacturer:	Sea Box Inc.	Length (in):	238.5
Model:	SB541.0	Width (in):	96.0
<u>Power</u>		Height (in):	96.0
Input		Weight (lbs):	7,182.0
AC:	380/480 or 190/230 VAC, 50/60Hz	Interior Cube (ft ³):	944.0
Phase:	3-Phase	Exterior Square (ft ²)/Cube (ft ³):	159.0/1,272.0
Wires (AWG):	4-Wire/6	Environmental Limitations	
Connector (AMP): 60	Refrigerant:	R-134A
Power Consump	tion (kW)	Max. Ambient Cooling (°F):	158.0
Cooling at 95°F:	10.0	Min. Ambient Heating (°F):	-58.0
Cooling at 125°F	: 13.4		

 $\underline{\textbf{Transportability}} : \ \ \textbf{The LRFS is transported as ancillary cargo worldwide via commercial rail, marine and highway.}$

NOTE: The LFRS requires forklift support.