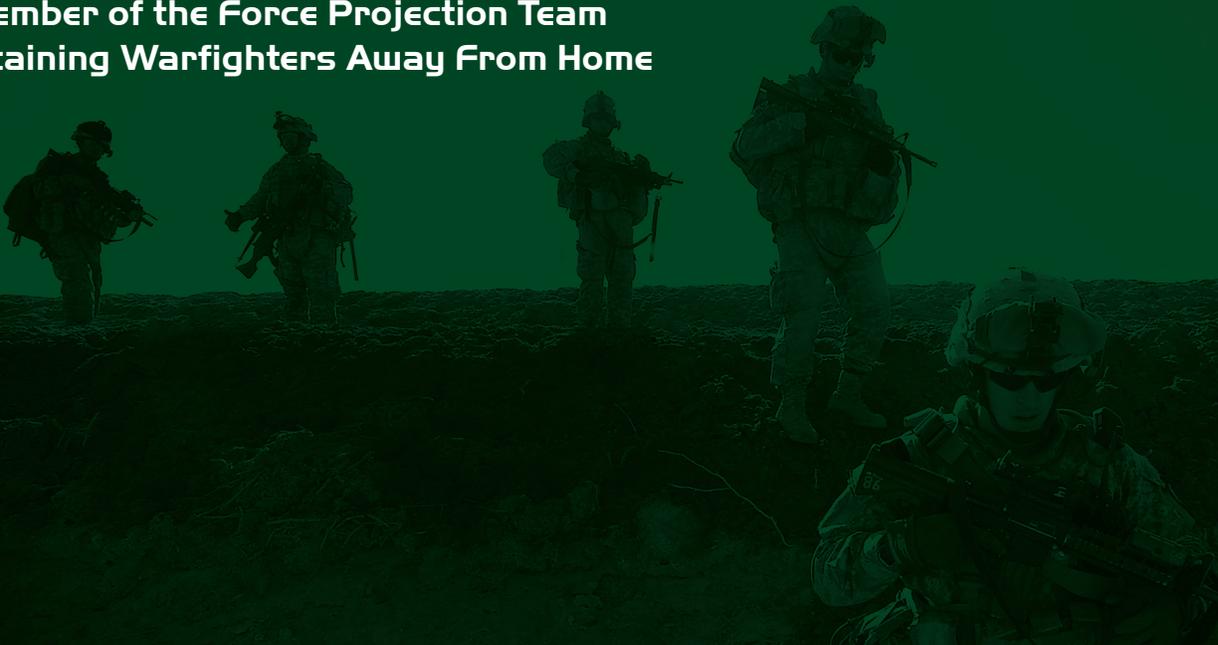


PM FSS PRODUCT FACT BOOK

**A Member of the Force Projection Team
Sustaining Warfighters Away From Home**



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PRODUCT MANAGER
FORCE SUSTAINMENT SYSTEMS



U.S. Army Product Manager Force Sustainment Systems (PM-FSS)

Mission:

PM-FSS develops, produces and fields quality support systems for Soldiers. We manage the program cost, schedule, performance and risk of all Soldier support equipment and systems. Soldier support systems are materiel that directly support the Soldier in an operational or tactical environment. Examples include cargo/aerial delivery systems, laundries, showers, heaters, environmental control units, camouflage nets, rigid and softwall shelters, field feeding equipment, and the Force Provider system.

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FINAL MESSAGE:

**If you need help
with this equipment
and the "System"
is not helping —
CALL US!**





Advanced Cargo Parachute Release System (ACPRS)

Capabilities:

Provides capability to conduct Low Velocity Aerial Delivery (LVAD) Operations from 500 ft AGL for Global Response Force (GRF) missions. Replaces existing M-1 and M-2 Parachute Releases with a more reliable release that improves load survivability in ground winds up to 17 knots.

Description:

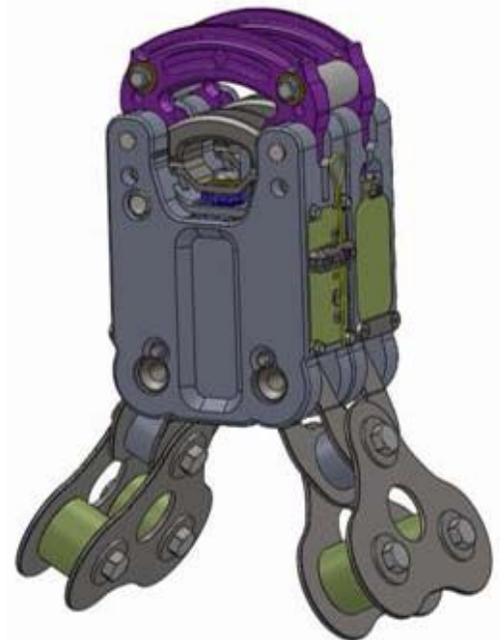
System currently in testing is a modular, electro-mechanical system that uses an imbedded accelerometer and pressure sensors with an advanced micro-controller to determine when ground impact has occurred and automatically disengages the parachutes. A single system can deliver a suspended load of 25,000 lbs with up to five parachutes. Dual systems are combined together with a simple kit to allow airdrop of loads between 25,000 and 42,000 lbs with 6-8 parachutes.

Information Contact:

APM Cargo Aerial Delivery
DSN 256-5598/(508) 233-5598



- **Weight capability:**
200-42,000 pounds rigged weight
- **Altitude range & speed:** As low as 500 ft @ 130-150 KIAS
- **Status/availability:** System Engineering and Manufacturing Development FY10-12
- **Supportability:** Class II item, will replace M-1 & M-2 parachute releases. Managed by ILSC.
- **Special Features:**
 - Omni-directional
 - Modular design
 - Compatible with current parachute connectors





Advanced Low Velocity Airdrop System - Light (ALVADS-L)

Capabilities:

Provides capability to conduct Low Velocity Aerial Delivery (LVAD) Operations as low as 500 ft AGL using modified G-11 parachutes and existing ancillary airdrop components for Global Response Force (GRF) missions. ALVADS reduces the threat to aircraft and personnel conducting the GRF mission, requiring smaller drop zones and allowing for quicker assembly.

Description:

Using ALVADS standardizes personnel and cargo drop altitudes for GRF missions.

Development concept is to modify the current G-11B parachute rigging configuration by shortening the riser extensions to minimize altitude loss to stabilized descent, and adding additional parachutes above 15,000 lbs to improve low altitude drag performance and ensure load survivability.

A parallel technology development effort is exploring advanced parachute designs to achieve low altitude performance with a significantly smaller and lighter parachute.

Information Contact:

APM Cargo Aerial Delivery
DSN 256-5598/(508) 233-5598



- **Weight capability:**
2520 - 22,000 lbs rigged weight
- **Combat Altitude range:**
Down to 500 ft above ground level
- **Status/availability:** ALVADS-L awaiting developmental restart in FY11/12





Dual Row Airdrop System (DRAS)

Capabilities:

Reduces the quantity of C-17s required to support Global Response Force (GRF) missions and tactical insertion times. DRAS maximizes the cargo capability for airdrop by using the C-17s dual logistics rail system vs. single row airdrop rails.

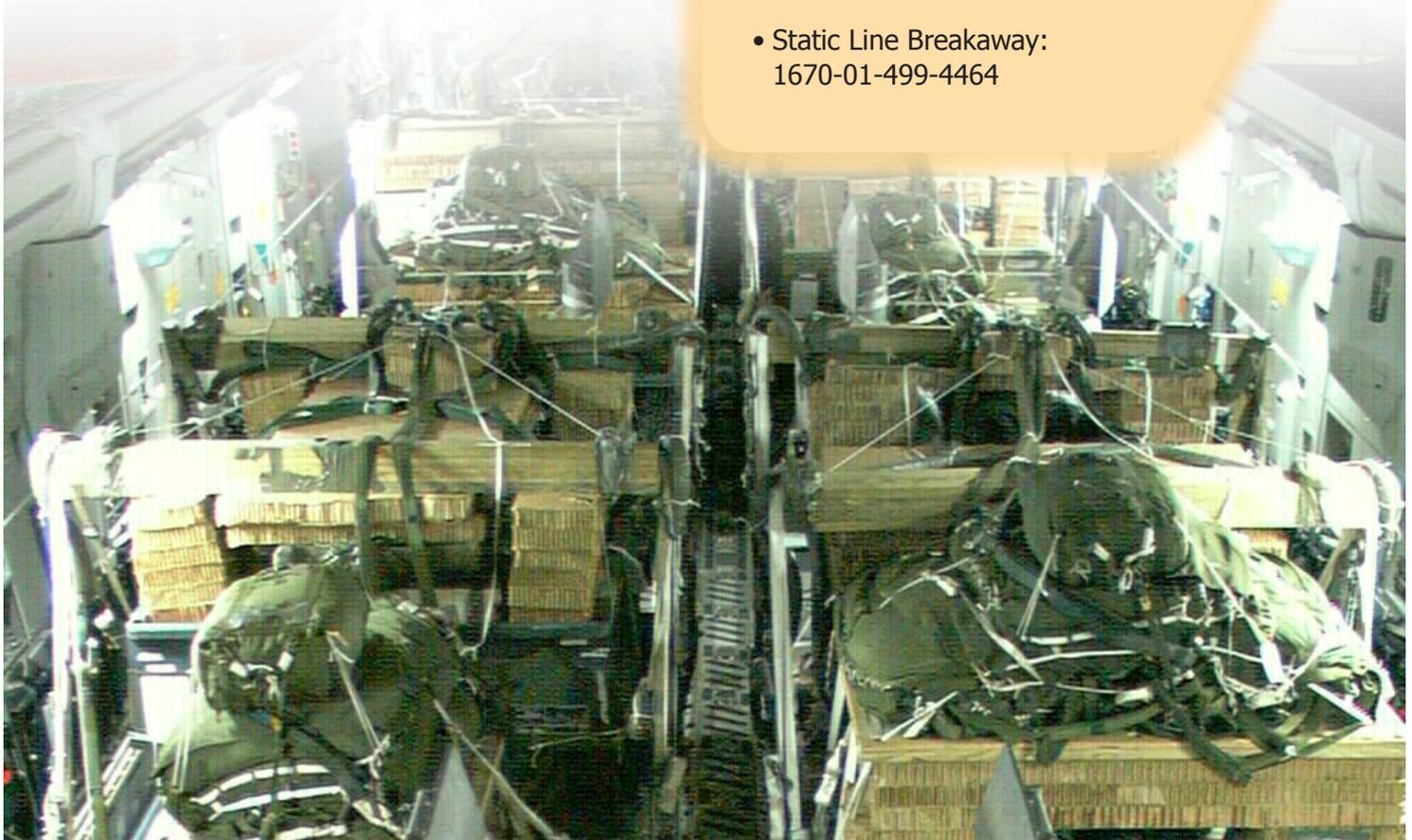
Description:

Consists of a modified type V airdrop platform (18' long by 88" wide) utilizing common rigging items and a newly developed outrigger set that prevents platform roll over. DRAS loads are gravity dropped using a static line-deployed 28-ft extraction parachute and modified G-11 parachutes with special reefing.

Information Contact:

APM Cargo Aerial Delivery
DSN 256-5598/(508) 233-5598

- **Weight capability:** 7,500 lbs (min) 14,500 lbs (max) rigged
- **Altitude range:** 1,200' @ 130-150 knots
- **Weight:** 1,900 lbs (platform and outriggers)
- **Status/availability:** Fielded 161 sets to meet Global Response Force (GRF) Requirements.
- **Supportability:** Item is currently stocked in the Army supply system (Class II Item). ILSC is the Item Manager.
- **NSNs:**
 - Outrigger Assembly: 1670-01-487-5464
 - DRAS Panel Assembly: 1670-01-485-1656
 - DRAS Rail: 1670-01-485-1654
 - DRAS Roller Pad: 1670-01-486-1342
 - Static Line Breakaway: 1670-01-499-4464





Extraction Parachute Jettison System – Heavy (EPJS-H)

Capabilities:

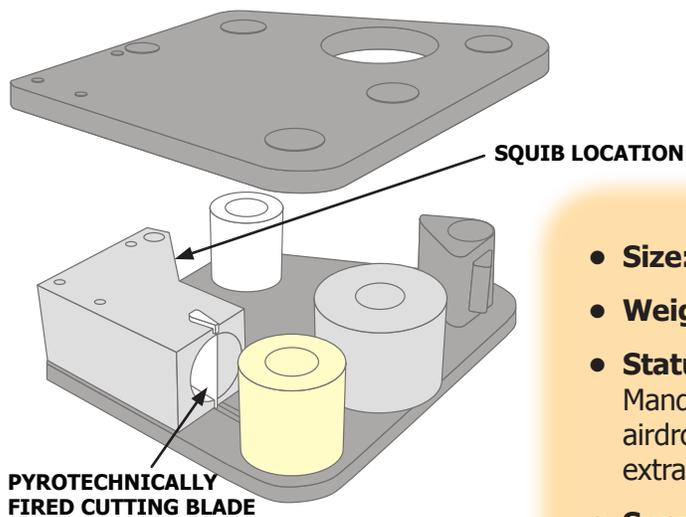
Provides a remote capability to jettison malfunctioning extraction parachutes (up to a pair of 28' extraction parachutes) quickly and safely.

Description:

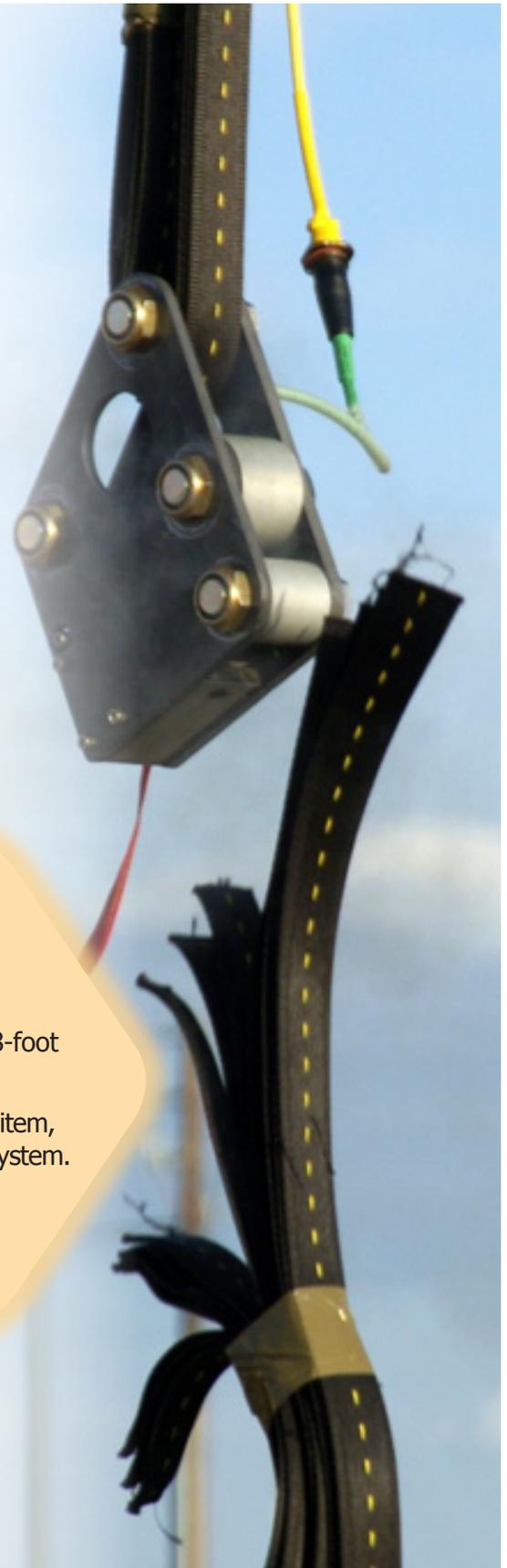
A platform-mounted device that integrates a three (3) point link and uses an electronically activated squib to drive a blade through the extraction lines. This action releases the extraction parachute(s) from the airdrop load.

Information Contact:

APM Cargo Aerial Delivery
DSN 256-5598/(508) 233-5598



- **Size:** ~10"×7"×3"
- **Weight:** ~20 lbs.
- **Status/availability:** Mandatory USAF use on airdrop loads with two 28-foot extraction parachutes.
- **Supportability:** Class II item, available through supply system. ILSC is the Item Manager.
- **NSN:** 1670-01-544-7425





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Joint Precision Airdrop System 2000 Lbs. (JPADS 2K)

Capabilities:

JPADS 2K provides an autonomous, precision-guided capability for the accurate delivery of Container Delivery System (CDS) sized loads on to small drop zones from C-130 and C-17 aircraft flying at high altitudes and stand-off distances. JPADS 2K increases aircraft and payload survivability and enables delivery of multiple loads to single or multiple drop zones in a single aircraft pass with an accuracy better than 150 meters with 80% confidence.

Description:

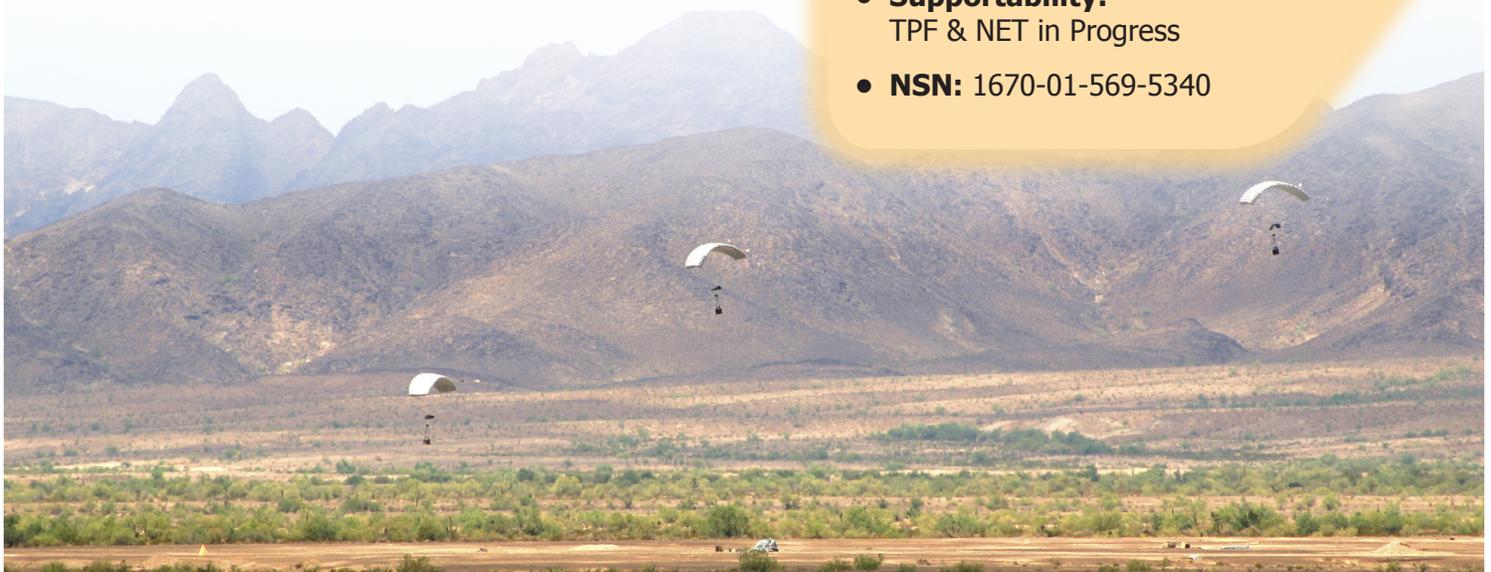
The JPADS 2K includes a 1025 sq ft ram air parafoil, with a glide ratio of 3:1, coupled with a military GPS-based Autonomous Guidance Unit (AGU). A specially designed suspension sling is used to attach the AGU to the CDS payload. The onboard Guidance, Navigation and Control (GN&C) software in the AGU autonomously steers the parafoil to the designated Impact Point (IP). Onboard the aircraft, the JPADS 2K AGU is wirelessly integrated with the USAF Mission Planner, which is used to monitor the health of the systems during flight and to determine an appropriate Launch Acceptability Region. Just prior to landing, the AGU commands the parafoil to perform a flare maneuver and slow the system down for landing.

Information Contact:

APM Cargo Aerial Delivery
DSN 256-5598/(508) 233-5598



- **Payload Capability:**
700-2100 Pounds Suspended
- **Altitude Range:**
 - 5000 FT AGL – 24,500 FT MSL
 - 3500 FT AGL for Training Drops
- **System Weight:** 180 lbs
- **Status/Availability:**
In Full Rate Production
- **Supportability:**
TPF & NET in Progress
- **NSN:** 1670-01-569-5340





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Joint Precision Airdrop System 10,000 Lbs. (JPADS 10K)

Capabilities:

JPADS 10K provides an autonomous, precision-guided capability for the accurate delivery of 5-10K pound airdrop loads on to small drop zones from C-130 and C-17 aircraft flying at high altitudes and stand-off distances. JPADS 10K increases aircraft and payload survivability and enables delivery of multiple loads to single or multiple drop zones in a single aircraft pass with an accuracy better than 250 meters with 80% confidence.

Description:

The JPADS 10K includes a 3500 sq ft ram air parafoil, with a glide ratio of at least 3:1, coupled with a military GPS-based Autonomous Guidance Unit (AGU). The JPADS 10K load is configured on a combat expendable, 463L or Type V Airdrop Platform for gravity airdrop. The onboard Guidance, Navigation and Control (GN&C) software in the AGU autonomously steers the parafoil to the designated Impact Point (IP) following aircraft release and system deployment. Onboard the aircraft, the JPADS 10K AGU is wirelessly integrated with the USAF Mission Planner, which is used to monitor the health of the systems during flight and to determine an appropriate Launch Acceptability Region. Just prior to landing, the AGU commands the parafoil to perform a flare maneuver and slow the system down for landing.

Information Contact:

APM Cargo Aerial Delivery
DSN 256-5598/(508) 233-5598

- **Payload Capability:**
7000-10000 Pounds Total
Rigged Weight
- **Altitude Range:**
7000 FT AGL – 24,500 FT MSL
- **System Weight:** ~480 lbs
- **Status/Availability:**
In Development, Production
Decision in FY12





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Low Cost Airdrop System (LCADS)

Capabilities:

A modular suite of low cost, expendable, low and high velocity parachutes and containers compatible with USAF aircraft and aerial port handling equipment. LCADS provides a low cost alternative single use application to current low and high velocity Container Delivery Systems (CDS) with a savings of 55 – 80%.

Description:

LCADS uses low cost, readily available polypropylene material for all components. The components are easy to build using simple manufacturing techniques, and eliminates the need to consume durable parachutes and containers for single use application such as humanitarian relief and resupply missions. The parachutes are packed by the manufacturer, eliminating packing requirements for the rigger. Because the systems are expendable there are no retrograde requirements.

Information Contact:

APM Cargo Aerial Delivery
DSN 256-5598/(508) 233-5598



- **Weight Capability:** 500 to 2200 lbs.
- **Altitude Range:**
 - LV: 1000 ft AGL - 13,000 ft MSL
 - HV: 3000 ft AGL - 25,000 ft MSL
- **Status/availability:** An expendable low cost container, high velocity parachute and low velocity parachute have been fielded and can be requisitioned through the standard Army supply system. DLA managed.
- **NSN:**
 - Container: 1670-01-523-7246
 - High Velocity Parachute: 1670-01-529-1202
 - Low Velocity Parachute: 1670-01-547-0401



Low Velocity Parachutes

High Velocity Parachute



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Low Cost Aerial Delivery System (LCADS) (One-Time Use/Disposable/Pre-Packed Parachutes)

ITEM	DESCRIPTION	APPLICATION	AIRCRAFT
Low Cost Container (LCC)  <p>COMPATIBLE WITH LCADS & CONVENTIONAL PARACHUTES</p>	<ul style="list-style-type: none"> A-22 Size Container About \$150 500-2200 LB NSN 1670-01-523-7246 	<ul style="list-style-type: none"> Container Delivery System (CDS) Loads Low to High Altitude Low or High Velocity Descent Combat Resupply Humanitarian Airdrop 	
Low Cost High Velocity Parachute 	<ul style="list-style-type: none"> About \$550 60-90 FPS Descent Rate 500-2200 LBS NSN 1670-01-529-1202 <p>COMPATIBLE WITH LCC & STANDARD A-22</p>	<ul style="list-style-type: none"> Medium to High Altitude CDS Airdrop (3000' AGL - 25000' MSL) High Velocity (60-90 FPS) Non-Fragile Payloads Combat Resupply Humanitarian Airdrop 	<ul style="list-style-type: none"> C-130 C-17 
Low Cost Low Velocity Parachute 	<ul style="list-style-type: none"> About \$2150 <28 FPS Descent Rate 500-2200 LBS NSN 1670-01-547-0401 	<ul style="list-style-type: none"> Low to Medium Altitude CDS (1000' AGL - 13000' MSL) Low Velocity (<30 FPS) Combat Resupply Humanitarian Airdrop 	
Low Cost Low Altitude Cross Parachute 	<ul style="list-style-type: none"> Includes 4 LCLA Container Straps (NSN 1670-01-554-0755) About \$200 80-200 LBS NSN 1670-01-551-5433 <p>ALSO COMPATIBLE WITH A-7A CONTAINER</p>	<ul style="list-style-type: none"> Door Bundle Type Loads Low Velocity (<30 FPS) Very Low Altitude (150-300 FT AGL) Small Unit Combat Resupply Humanitarian Airdrop 	<ul style="list-style-type: none"> C-23 CASA 212 CH-47 UH-60 (restricted) CH-53 V-22
Low Cost Low Altitude 35'/24' Parachutes 	<ul style="list-style-type: none"> Repurposed T10/T10R 150-500/125-300 lbs 35' NSN 1670-01-578-6655 24' NSN 1670-01-578-6654 	<ul style="list-style-type: none"> Cross: single – up to 200lbs, double – up to 400lbs, triple – up to 600lbs 24': single – up to 300lbs, double – up to 600lbs 35': single – up to 500lbs, double – up to 1000lbs 	<ul style="list-style-type: none"> C-130 E/H 

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Low Cost Low Altitude (LCLA) Airdrop System

Capabilities:

Extension of the Low Cost Airdrop System suite of low cost, expendable airdrop systems. Comprised of several parachutes with different weight capabilities.

Description:

- Single Cross Parachute is for 80-200 pounds
- Double Cross Parachute is for 201-400 pounds
- Triple Cross is for 401-600 pounds
- T-10 is for 100-500 pounds (Double T-10 is up to 1000 lbs on C-130)
- T-10R (35-ft dia cargo) & MIPRS (24-ft dia cargo) is for 80-300 pounds (Double T-10R is up to 600 lbs on C-130)

Approved for use on CASA 212, C-23 Sherpa, M28 Sky Truck, CH-47 and C-130 aircraft. Deployed at 150-300 feet Above Ground Level. Parachutes are pre-packed and are expendable, eliminating retrograde and property accountability requirements. The 35-ft and 24-ft parachutes are authorized for repacking and reuse utilizing an expendable Deployment Bag.

Information Contact:

APM Cargo Aerial Delivery
DSN 256-5598/(508) 233-5598

- **Weight Capability:**
80-1000 lbs.
- **Altitude Range:**
150-300 AGL
- **Status/availability:** Available through the standard Army Supply System. DLA Managed.
- **NSN:**
 - Cross Parachute with Container Straps: 1670-01-551-5433
 - Container Straps: 1670-01-554-0755
 - 35-foot: 1670-01-576-6655
 - 24-foot: 1670-01-576-6654
 - Expendable Deployment Bag, 35-foot: 1670-01-578-6771
 - Expendable Deployment Bag, 24-foot: 1670-01-578-6776



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Contingency Basing Efficiency & Environment (E2) Project

- ARCENT Sponsored
- "Off the Shelf" Solutions to improve sustainment efficiency & reduce environmental risks
- Company & Below Bases in Afghanistan
- Collaborative effort across multiple Army materiel developers

Water Management (WM) Area

- Solutions that reduce water resupply demand and reduce and/or mitigate environmental/health hazard impact of liquid waste generated, while minimizing increases in energy demand
- Water Purification, Recycle and Treatment

Energy Efficient Structures (E2S) Area

- Reduce the energy/fuel required for heating and cooling of shelters and structures, by providing substantial increases to their R-value while maintaining shelter/structure redeployment capability

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ROWPU 600



LWP



SWRS



COTS Treatment



Tent Insulation & Solar Barriers



Right Sized HVAC Solutions



Efficient Rigid Structures



Small Scale Incinerators



60 kW TQG Micro Grid for Force Provider



Renewable Energy



Solar Water Heater



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Assault Kitchen (AK)

Capabilities:

The primary use of the AK is to support company level feeding in light thru heavy forces. The AK heats on the move — food is hot and ready to be served on arrival — and will be used to heat and serve rations in a field environment. It provides the ability to serve up to 250 hot Unitized Group Ration Heat & Serve meals and can support multiple unit locations as the tactical and logistical situation permits. It is capable of being set up and feeding in 15 minutes or less and can provide food 56% faster than the older company level kitchen. The AK may also be dismantled to provide hot meals in static locations such as Forward Operating Bases and Combat Outposts.

Description:

The AK consists of a vehicle-mounted tray ration heater, insulated food containers, beverage dispensers, worktables, ice chest, and required utensils. It is transported and operated on a High Mobility Multipurpose Wheeled Vehicle (HMMWV) and Light Tactical Trailer (LTT) combination.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543

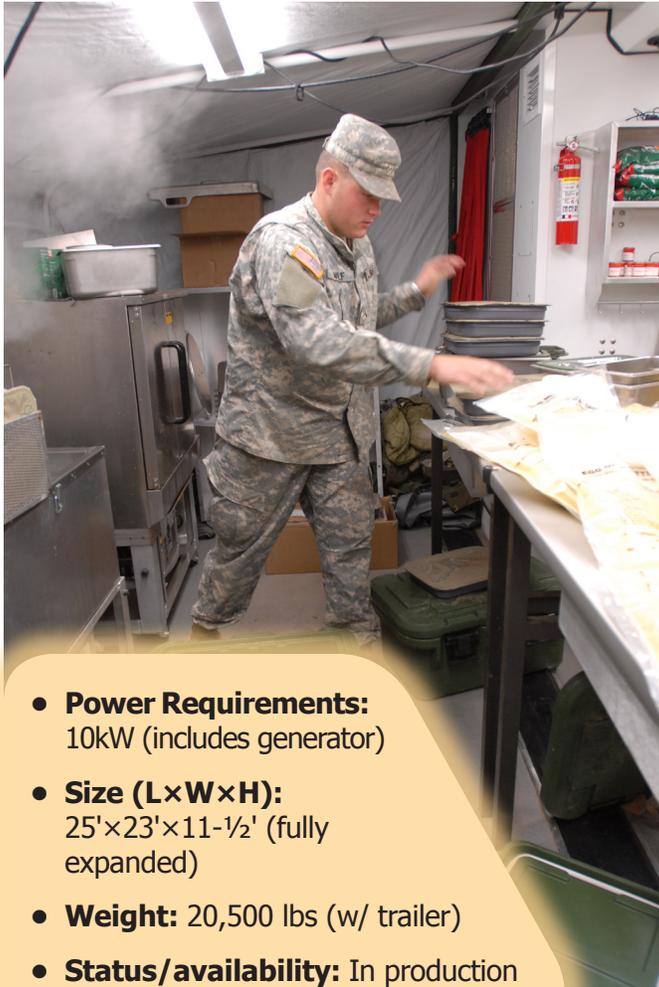
- **Power Requirements:**
24VDC Vehicle Power
- **Size (L×W×H):**
20'×20'×8'2" (fully expanded)
- **Weight:** 1100 lbs (dry weight of AK components)
- **Status/availability:** In production and fielding IAW HQDA direction
- **Transportability:** Air, land and sea
- **Supportability:** TM 10-7360-230-13&P
- **NSN:** 7360-01-558-3100
- **Joint Interest:** Shares key components and Operational Requirement Document with USMC Tray Ration Heating System (TRHS).





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Containerized Kitchen (CK)

Capabilities:

Capable of supporting up to 800 Soldiers with three hot meals per day. Each CK replaces two Mobile Kitchen Trailers where consolidated field feeding is suitable.

Description:

Combines existing military standard kitchen equipment and commercial components integrated into an expandable 20' container mounted on a tactical trailer.

Includes on-board electrical power generation, ventilation to exhaust by-products of food preparation and burner exhaust, environmental control, refrigerated storage, and an on-board handwashing sink with hot and cold running water.

The CK is towed by a 5-ton FMTV (M1083) or M923 cargo truck.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543

- **Power Requirements:**
10kW (includes generator)
- **Size (L×W×H):**
25'×23'×11-1/2' (fully expanded)
- **Weight:** 20,500 lbs (w/ trailer)
- **Status/availability:** In production and fielding IAW HQDA direction
- **Transportability:**
Air, land and sea
- **Supportability:**
TM 10-7360-226-13&P
- **NSN:** 7360-01-473-3408





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Food Sanitation Center (FSC)

Capabilities:

Provides capability to perform clean up following food service operations in the field. Replaces gasoline burning immersion heaters. Safely and efficiently operates on JP8 fuel.

Description:

Uses a three-sink sanitation method with each sink at a different temperature for successive cleaning, rinsing, and sanitizing of pots, pans, etc. Includes burners, sinks, storage racks, drain tables and work tables. Housed in a Modular General Purpose Tent System small or TEMPER tent. A carbon monoxide monitor, sink-fill pump, hot surface insulation, National Sanitation Foundation-compliant sinks and grease separator are included in the Food Sanitation Center-2 (FSC-2).

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543

- **Power Requirements:**
120VAC
- **Size (L×W×H):** Variable layout arrangement
- **Weight:** 1,400 lbs (approx.)
- **Status/availability:**
In production and fielding IAW HQDA direction
- **Transportability:**
2-½ ton or larger truck
- **Supportability:**
TM 10-7360-211-13&P
- **NSN:** 7360-01-496-2112





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Kitchen, Company Level, Field Feeding – Enhanced (KCLFF-E)

Capabilities:

Provides increased field feeding capability to deployed units. KCLFF-E is designed to heat, deliver and serve operational rations for up to 200 Soldiers as the tactical and logistical situation permits. A variety of meal options are possible, ranging from serving remotely prepared meals to cooking limited A-rations.

Description:

Includes M59 range, cook pot cradle, tray pack heater tank, insulated beverage dispensers, insulated food containers, ice chest, utensils, etc.

Operated by two cooks.

Information Contact:

APM Field Services & Food Service Equipment

DSN 256-5543/(508) 233-5543



- **Power Requirements:**
24VDC Vehicle power for battery recharge or MBU operation
- **Weight:** 1,300 lbs
- **Status/availability:** 1350 fielded. No longer procured.
- **Transportability:**
HMMWV or larger truck
- **Supportability:**
TM 10-7360-209-13&P
- **NSN:** 7360-01-374-1980





Modern Burner Unit (MBU)

Capabilities:

Provides food service personnel the ability to safely and efficiently operate the field kitchens and sanitation centers on battlefield fuels (JP-8).

Description:

Direct replacement for the M2 Burner, push button operation, lights in place with electronic ignition, fuels in place, operational in environments from -25°F to 120°F. Power/fuel kits available for each field feeding application. An MBU Tool Kit has been developed to support the operator maintenance functions on the MBU.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543

- **Power Requirements:**
24VDC, 2kW gen set for MKT
- **Size (LxWxH):** 23"×19"×9.75"
(same as M2 burner)
- **Weight:** 39 lbs empty, 54 lbs fully fueled
- **Status/availability:** Available for requisition
- **Transportability:** Transported inside kitchen
- **Supportability:** TM 9-6115-673-13&P, MBU Tool kit NSN 5180-01-565-2047
- **NSN:** 7310-01-507-9310





Mobile Kitchen Trailer - Improvement (MKT-I) Kit

Capabilities:

Improves the performance, effectiveness, comfort and safety of the MKT.

Description:

MKT-I kit includes complete new fabric covering including cold weather skirt, fluorescent lights, ventilation fan and ducts, new griddle, can opener, floor mats, and lightweight ice chest.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543

- **Power Requirements:**
120VAC, ~300W
- **Size:** N/A (replaces existing items)
- **Weight:** N/A (replaces existing items)
- **Status/availability:** Kits and individual components available through the supply system by requisition.
- **Transportability:** Transported with MKT
- **Supportability:** Included in MKT manual TM 10-7360-206-13.
- **NSN:** 7360-01-469-5482 (Green)
7360-01-469-5482 (Tan)





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FORCE SUSTAINMENT SYSTEMS



- **Power Requirements:**
Self powered; 220 V shore power or 440 V shipboard power
- **Size (L×W×H):** 20'×8'×8' ISO container
- **Weight:** 13,396 lbs empty/39,504 lb payload
- **Status/availability:** In production and fielding IAW HQDA direction
- **Transportability:** Land, sea & air
- **Supportability:**
TM 10-8145-222-13&P
- **NSN:** 8145-01-534-3597

Multi-Temperature Refrigerated Container System (MTRCS)

Capabilities:

MTRCS provides mission-critical refrigeration capability to transport frozen and refrigerated products simultaneously. MTRCS is operational on the move and includes an integral bale bar for HEMTT-LHS compatibility.

Description:

MTRCS consists of a commercial-based combination engine driven/electrical powered 20,500 BTU refrigeration unit; insulated 8'×8'×20' ISO container with a removable partition segregating the 2 temperature zones; cargo restraints; and temperature chart recorder. Provides 155 ft³ in freezer section and 511 ft³ in refrigeration section, for a total of 666 ft³ of storage space.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543





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PRODUCT MANAGER
FORCE SUSTAINMENT SYSTEMS



- **Power Requirements:**
28VDC, 15A max
- **Size (L×W×H):**
11.5"×8.5"×10.5"
- **Weight:** 17 lbs
- **Status/availability:**
CTA item available from TACOM
ILSC. Currently installed in tracked
vehicles and Stryker vehicles.
- **NSN:** 7310-01-387-1305

Mounted Water Ration Heater (MWRH)

Capabilities:

Provides vehicle crews with on-board hot water for heating individual rations, preparing beverages, and limited personal hygiene, e.g. shaving.

Helps reduce the logistical footprint in support of deployed forces by providing enhanced subsistence capability for vehicle crews.

Description:

The MWRH is electrically-powered and thermostatically controlled. It operates similar to a double boiler with the hot water dispensed from a spigot. The MWRH heats one gallon of water in 40 minutes, or 5 MREs and 40 oz. water for beverages in 80 minutes. It can be operated on the move.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543





- **Power Requirements:**
10kW (includes generator)
- **Size (L×W×H):** 20'×8'×8'
- **Weight:** 9,200 lbs empty, 52,900 lb capacity
- **Status/availability:** Contract option available. No longer produced - being replaced by MTRCS. Displaced assets may be available.
- **Transportability:** Land, sea and air
- **Supportability:**
TM 55-8145-221-14&P
- **NSN:** 8115-01-015-7039
- **LIN:** C84541

Refrigerated Container System (RCS)

Capabilities:

Provides mission-critical refrigeration capability at forward areas for specialized military units. The RCS is used to transport perishable rations for field feeding units and human remains for mortuary affairs units.

Description:

Consists of a 9,000 BTU refrigeration unit and 8'×8'×20' ISO insulated container, with approximately 800 ft³ of usable storage. The refrigeration unit is electric and can be set for refrigeration or freezer temperatures. A 10 kW Tactically Quiet Generator (TQG) is mounted within the envelope dimensions of the container to provide electrical power for the unit and lighting inside the container.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543





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FORCE SUSTAINMENT SYSTEMS



- **Power Requirements:**
5kW, 208 Volts, 3 phase
- **Size (L×W×H):**
20'×8'×7'
- **Weight:** 2,000 lbs
- **Status/Availability:**
No longer in production.
- **NSN:** 4510-01-163-6775

Battlefield I2-Head Shower

Capabilities:

Provides the capability for hot showers in the field at a rate of 72 showers (10 minute each) per hour.

Description:

The 12-Head Shower consists of six 2-man shower stalls made of fiberglass bases with fabric secured over a framework of aluminum tubing. A combination of hose connections and a pump assembly supply water and provides drainage for the shower facility.

Hot water is provided by the diesel/JP8 fired M-80 water heater or new AWH 400 water heater.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543





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FORCE SUSTAINMENT SYSTEMS



Containerized Batch Laundry (CBL)

Capabilities:

Provides capability to wash and dry 200 lbs of clothes per hour, in a clean and safe environment. Will support Army field hospitals to clean clothing, linens, etc. The CBL is equipped with water reuse, capturing 50% of water used. Capable of collecting the waste water and transferring it up to 500' from the container. Fully transportable by land, air and sea.

Description:

2-50 lb. washers/extractors, 2-75 lb. dryers (both commercial), exhaust fan, all hoses and connections mounted in an ISO container. A TEMPER tent for laundry sorting is included with lighting, and environmental control. A similar laundry is currently used in the Force Provider system.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543

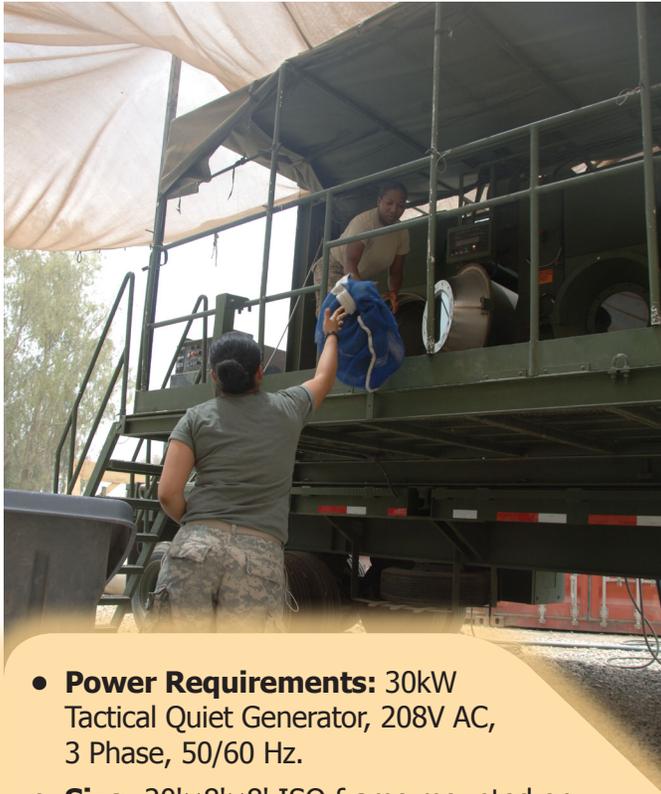
- **Power Requirements:** 100kW, 208 Volt/3-phase
- **Size (LxWxH):** 20'x8'x8' ISO compatible container + 16' TEMPER tent
- **Weight:** 16,500 lbs
- **Status/Availability:** No longer in production.
- **Transportability:** Land, air or sea
- **NSN:** 3510-01-527-2209, Green
3510-01-527-2210, Tan





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FORCE SUSTAINMENT SYSTEMS



Laundry Advanced System (LADS)

Capabilities:

Provides capability to clean clothing of 500 Soldiers per day in the field. LADS washes and dries clothing using a dry-to-dry process which washes, extracts, and dries the clothing in the same drum. The laundry water is re-used and recycled via distillation to minimize water consumption and waste water generation. LADS consumes 400 gallons of water per 20-hour day compared to 6,000 for a single M85.

Description:

Two laundry drums and water processing equipment within a 20'x8'x8' ISO frame, fuel tank, storage container and 30kW generator mounted on a M871 trailer.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543

- **Power Requirements:** 30kW Tactical Quiet Generator, 208V AC, 3 Phase, 50/60 Hz.
- **Size:** 20'x8'x8' ISO frame mounted on M871 trailer
- **Weight:** 29,800 lbs plus trailer and generator
- **Status/availability:** In production and fielding to Quartermaster Field Service Companies.
- **NSN:** 3510-01-463-0114





Mobile Integrated Remains Collection System (MIRCS)

Mission:

Provides Mortuary Affairs (MA) units with a complete, self-contained, mobile facility to process, initially identify and store human remains and personal effects in support of the full spectrum of military and peacetime disaster support operations. The MIRCS will transform Joint MA operations by providing a system with reduced operational footprint that is deployable, agile, versatile, and sustainable.

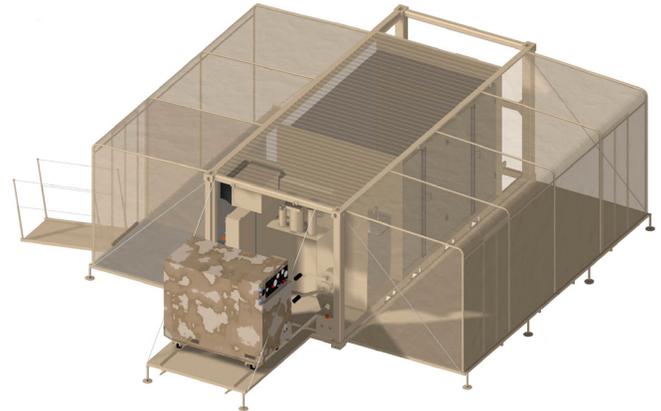
Characteristics/Description:

The MIRCS is self-contained in an expandable 8'x8'x20' ISO certified container that is directly compatible with the HEMTT-LHS and Palletized Load System for transport. It is capable of holding up to 16 remains in refrigerated storage and is environmentally controlled. It has two processing areas as well as onboard storage for supplies and administrative forms. The system is transportable by C-130 or larger aircraft and helicopter sling load and provides refrigeration on the move.

Information Contact:

APM Field Services & Food Service Equipment

DSN 256-5543/(508) 233-5543



- **Power Requirements:** 15kW Tactical Quiet Generator (included)
- **Size:** 20'x8'x8' ISO frame
- **Weight:** 23,240 lbs
- **Status/Availability:** In production and fielding to Quartermaster Mortuary Affairs Companies.
- **NSN:**
4110-01-534-7675, Green;
4110-01-534-7676, Tan





PYROLYSIS WASTE DISPOSAL SYSTEM (PWDS)

- Containerized Waste Destruction Using Pyrolysis Technology
- Energy Recovery
- Processes Plastic, Cardboard, Paper, Metals, Medical, Liquid Oil, Sewage Sludge & Food Waste
- Foreign Comparative Test Program (QinetiQ)
- 4000 Lbs Per Day of Solid Waste Capability
- Reduces Organic Waste Volume by >80%
- Produces Disposable Char
- 40-50 kW Electrical Energy Recovery
- 3 ISO Containers (20 ft)
- **PWDS Test Unit Located at Fort Irwin Landfill**
- Testing In Operational Environment at NTC
- Add-On Kit for Force Provider Base Camps (600 man or larger)

Information Contact:

Richard Guiliano

PM - Force Sustainment Systems
DSN 256-4697/(508) 233-4697
rich.guiliano@us.army.mil





Small Unit Shower (SUS)

Capabilities:

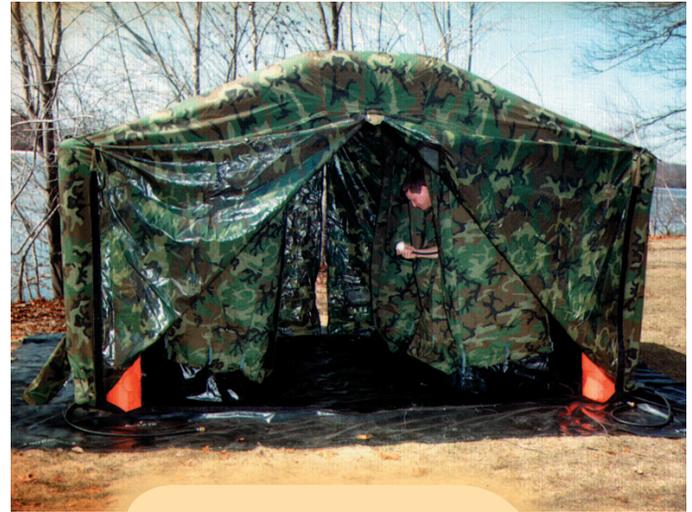
Lightweight, portable shower system provides shower support for small units in forward areas, providing up to 24 showers per hour.

Description:

- Compact heating unit burns diesel or JP-8 fuels.
- Provides temperature controlled water at 95°F-105°F.
- Air beam supported tent with four individual shower stalls provides privacy and controlled water drainage.
- Set up/tear down by two Soldiers in 15 minutes.

Information Contact:

APM Field Services & Food Service Equipment
DSN 256-5543/(508) 233-5543



- **Power Requirements:** 28VDC via NATO slave cable connection to vehicle.
- **Size (L×W×H):** Heater: 20"×13"×21"; Shelter: 8'×12'×7' (set up), two bags (packed) 35"×29"×17" each
- **Weight:** 225 lbs
- **Status/Availability:** CTA item (CTA 50-909), available through supply system by requisition.
- **NSN:** 4510-01-409-0139



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Force Provider

Capabilities:

Force Provider provides climate controlled billeting, quality food and dining facilities, hygiene services and MWR facilities to support 600 personnel. The system is containerized and preconfigured, facilitation movement by and combination of land, air, and sea. Missions for Force Provider include Forward Operating Bases, Primary Reconstruction Teams, Logistics Support Areas, and intermediate staging base, and redeployment and base camps of other military operations such as peacekeeping missions.

Description:

Force Provider is the Army's Premier Base Camp. The Force Provider concept was born in 1991 as a result of inadequate living conditions for our soldiers during Desert Shield/Storm. General Sullivan, CSA directed the development of a containerized, highly deployable city. Force Provider provides soldiers with the basic necessities for living conditions - billets, showers, latrines, and laundry, kitchen and their support equipment. Force Provider includes power generation and distribution, fuel support, water and waste water systems.

Based upon lessons learned and the current deployment scenario, the Force Provider Module has evolved from a 550 man camp with limited flexibility in deployment capability into a four 150 Expeditionary Base Camps, with additional Morale, Welfare, and Recreational and Administrative support capabilities. Each Expeditionary Base Camp comes complete with water and fuel storage, and distribution systems, and wastewater collection.

Force Provider has provided high quality living conditions in Guatemala, Honduras, Haiti, Guantanamo Bay, Bosnia and currently in support of both Operation Enduring Freedom and Operation Iraqi Freedom.

Information Contact:

Combat Field Service Equipment Team
DSN 256-4486/(508) 233-4486

Expeditionary Base Module Components:

- Expeditionary Base Camp (x4)
- Morale, Welfare & Recreation Complex
- Administration Complex
- Water Management System
- TRICONS: 53 Rev C/43 Rev D
 - Expeditionary Latrines System (ELS): 8
 - Expeditionary Showers System (ESS): 8
 - Expeditionary Batch Laundry (EBL): 4
 - Kitchen TRICON Kitchen System (ETKS): 4
 - TRICON Refrigerated Containers (TRC): 4
 - Generators (MEP806B): 26

Module Production & Distribution:

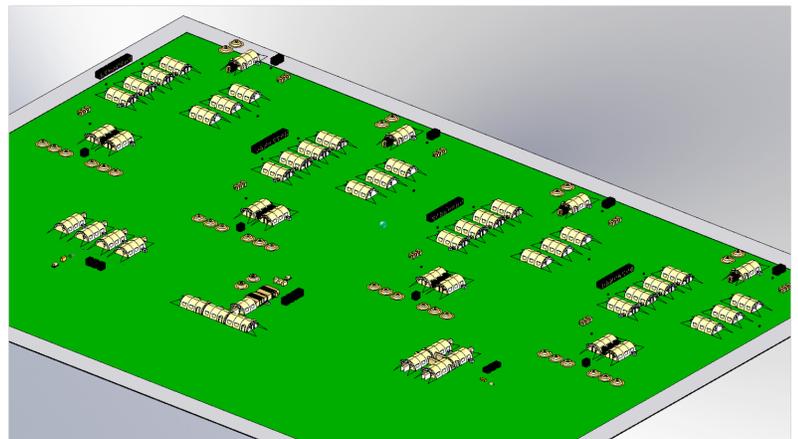
- Production Objective (AAO): 56
- Modules Complete: 53

Optional Add-On Equipment for Force Provider:

- Cold Weather Kit (provides freeze protection down to -15°F)
- Prime Power Kit (US Army Prime Power Battalion high power generator support)
- Electric Kitchen Complex (1800 A rations per day – 600 man camp support)
- Waste Water Trailer (1K waste evacuation trailer – 600 man camp support)

Force Provider Module NSNs:

- Production Configuration (Rev D):
 - 5419-01-566-1160 (Tan)
 - 5419-01-566-1156 (Green)
- Reset Configuration (Rev C):
 - 5419-01-571-6447 (Tan)
 - 5419-01-571-6445 (Green)





Containerized Latrine System (CLS)

Capabilities:

- Provides improved sanitation
- Individual privacy stalls
 - 6 stalls
 - 1 urinal
- Accommodates Male and Female personnel
- Hot and cold water for hand washing
- Environmentally controlled (cooling/heating)
- 30 minute set-up
- System Includes:
 - Fresh and black water storage
 - Hoses
 - Power cables
 - On-board ejection pump

Transportable:

- Land/Rail/Sea/Air
- 20 ISO Container
- Meets CSC/ISO requirements
 - Highly mobile
 - Weighs less than 10K
 - Forkliftable

Information Contact:

Combat Field Service Equipment Team
DSN 256-4486/(508) 233-4486





Containerized Shower System (CSS)

Capabilities:

- Provides improved sanitation
- Accommodates 1728 soldiers per day – 10 min shower
- Individual privacy stalls
 - 12 stalls
- Individual water temperature control
- Shave Stands (x2)
- 20x16 TEMPER tent for changing
- Accommodates Male and Female personnel
- Environmentally controlled (cooling/heating)
- 30 minute set-up
- System Includes:
 - Fresh and grey water storage
 - Hoses
 - Power cables
 - TEMPER Tent



Transportable:

- Land/Rail/Sea/Air
- 20 ISO Container
- Meets CSC/ISO requirements
 - Highly mobile
 - Weighs less than 10K
 - Forkliftable

Information Contact:

Combat Field Service Equipment Team

DSN 256-4486/(508) 233-4486





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FORCE SUSTAINMENT SYSTEMS



Force Provider Expeditionary Base Camp (FP EBC) 150 Man

Capabilities:

- Completely self-contained, stand-alone system
- 150 man Billeting – TEMPER Air Supported (TAS) tents
- Kitchen/Dining Facilities
- Administration Support Facilities
- Expeditionary TRICON Systems
 - Expeditionary TRICON Kitchen System (ETKS) (1x)
 - Expeditionary Latrine System (ELS) (2x)
 - Expeditionary Shower System (ESS) (2x)
 - Expeditionary Batch Laundry (EBL) (1x)
- Shower Water Reuses System (1x)
- Power Generation/Distribution
 - Generators (MEP 806B) (6x)
 - 200AMP Power Distribution Box (6x)
- Fuel Storage/Distribution
 - 1 K Fuel Bladders (4x)
 - Fuel Distribution Pump (1x)

Dependencies:

- User provides:
 - Food
 - Potable water
 - Fuel
 - Trash disposal
 - Black Water disposal

Transportable:

- Land/Rail/Sea/Air
- Meets CSC/ISO requirements

Deployable:

- C-17 compatible – Fits on one C-17, using 18 Pallet positions
- Rapid set-up – 8 men in 4 hours

Flexibility:

- Complexes into larger facilities through multiple EBCs or other base camp systems
- Additional Add-On capabilities
 - Cold Weather Kit
 - Prime Power Kit

Meets CSA mindset for commonality on the battle field

Information Contact:

Combat Field Service Equipment Team
DSN 256-4486/(508) 233-4486

1) ETS LAUNDRY:

- One Commercial Bulk Laundry & One Commercial Dryer
- Onboard Hot Water Heater
- Onboard Supply & Gray Water Pumps



EXPEDITIONARY TRICON SYSTEM (ETS) COMPONENTS

2) ETS LATRINE:

- 4 Commercial Toilets
- 2 Urinals
- 4 Sinks w/ Mirrors
- Onboard Hot Water Heater



3) ETS SHOWER:

- 4 Shower Stalls
- 4 Sinks w/ Mirrors
- Onboard Hot Water Heater



6) SHOWER WATER REUSE SYSTEM (SWRS):

- Treats 12,000 Gallons per Day with a 75% Recovery Rate of Shower Wastewater
- Unattended Automatic Operation (7 days without operator interface)



4) ETS TRICOLD:

- 270 CU.FT of Storage at a Temperature Range of -25° C to +25° C



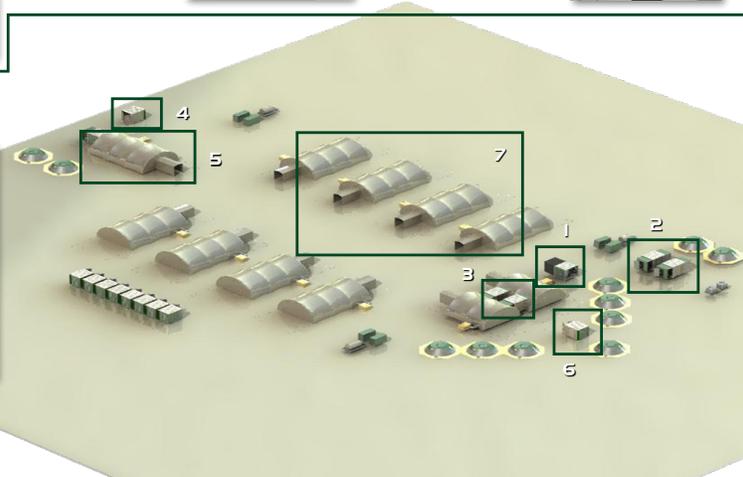
5) DINING FACILITY WITH KITCHEN:

- 2 Cook and Hold Ovens
- Steam and Hold Counter Top Steamer
- Steam Kettle (6 gallon)
- Griddle



7) BILLETING:

- 7 Airbeam Tents, House 150 Personnel, 1 Admin Tent
- Climate Controlled





Force Provider Expeditionary Batch Laundry (EBL)

Capabilities:

- Provides capability to wash and dry 100 lbs of cloths per hour, in a clean and safe environment
 - 50 lbs commercial washer/extractor
 - 75 lbs commercial dryer
- Environmentally controlled (cooling/heating)
- TRICON folds out to 14 feet in width
- Set-up: 15 min, 2 personnel
- System Includes:
 - Fresh and grey water storage
 - Hoses
 - Power cables
- Interfaces to any base camp operation
- Able to operate as a standalone system
 - Can support small expeditionary units in austere environment

Transportable:

- Land/Rail/Sea/Air
- Meets CSC/ISO requirements
 - Highly mobile
 - Weighs less than 10K
 - Forkliftable

Information Contact:

Combat Field Service Equipment Team
DSN 256-4486/(508) 233-4486

- **Power Requirement:**
100A (×1), 60A (×1)
- **Shipping Size:** TRICON,
8'H × 8'W × 6.5'L
- **Weight:** 6930 lbs





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FORCE SUSTAINMENT SYSTEMS



Force Provider Expeditionary Latrine System (ELS)

Capabilities:

- Provides capability for latrine services for 75 personnel, with individual privacy and increased sanitation
- Low water use toilets w/privacy stalls (×4)
- Urinal (×1)
- Hand wash sinks (×2)
- Each stall has shelf and hooks to accommodate soldiers equipment
- Accommodates Male and Female personnel
- Environmentally controlled (cooling/heating)
- TRICON folds out to 18 feet in width
- Set-up: 15 min, 2 personnel
- System Includes:
 - Fresh and black water storage
 - Hoses
 - Power cables
- Interfaces to any base camp operation
- Able to operate as a standalone system
 - Can support small expeditionary units in austere environment

• **Power Requirement:**
60A (×1)

• **Shipping Size:**
TRICON, 8'H × 8'W × 6.5'L

• **Weight:** 6060 lbs



Transportable:

- Land/Rail/Sea/Air
- Meets CSC/ISO requirements
 - Highly mobile
 - Weighs less than 10K
 - Forkliftable

Information Contact:

Combat Field Service Equipment Team
DSN 256-4486/(508) 233-4486





Force Provider Expeditionary Shower System (ESS)

Capabilities:

- Provides capability for shower services for 24 personnel/hour (10 minute shower), with individual privacy and increased sanitation
 - Individual stalls (x4)
 - Individual water temperature control
 - Hand wash sinks (x2)
 - Each stall has shelf and hooks to accommodate soldiers equipment
- Accommodates Male and Female personnel
- Environmentally controlled (cooling/heating)
- TRICON folds out to 18 feet in width
- Set-up: 15 min, 2 personnel
- System Includes:
 - Fresh and black water storage
 - Hoses
 - Power cables
- Interfaces with TEMPER Tent for additional changing space
- Interfaces to any base camp operation
- Able to operate as a standalone system
- Can support small expeditionary units in austere environment

Transportable:

- Land/Rail/Sea/Air
- Meets CSC/ISO requirements
 - Highly mobile
 - Weighs less than 10K
 - Forkliftable

Information Contact:

Combat Field Service Equipment Team
DSN 256-4486/(508) 233-4486



• **Power requirements:**
60A, 208V, 3PH (x1)

• **Shipping Size:**
TRICON, 8'H x 8'W x 6.5'L

• **Weight:** 6450 lbs





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FORCE SUSTAINMENT SYSTEMS



Force Provider Expeditionary TRICON Kitchen (ETK)

Capabilities:

- Provides 3 meals per day for a minimum of 150 personnel UGRAs and limited "A" rations
 - Commercial off the shelf (COTS) equipment
 - ◊ Refrigerator
 - ◊ Steam kettle
 - ◊ Convection Oven
 - ◊ Cook-N-Hold Oven
 - ◊ Steam-N-Hold Oven
 - ◊ Griddle
- On-board Sanitation System with grease separator
- Food Service Window
- Operated by 2 personnel
- Environmentally controlled (cooling/heating)
- TRICON folds out to 18 feet in width
- Set-up: 15 min, 2 personnel
- System Includes:
 - Fresh and black water storage
 - Hoses
 - Power cables
- Interfaces with TEMPER Tent for dining facility
- Interfaces to any base camp operation
- Able to operate as a standalone system
 - Can support small expeditionary units in austere environment

Transportable:

- Land/Rail/Sea/Air
- Meets CSC/ISO requirements
 - Highly mobile
 - Weighs less than 10K
 - Forkliftable

Information Contact:

Combat Field Service Equipment Team
DSN 256-4486/(508) 233-4486



- **Power requirements:**
100A, 208V, 3PH (x2)
- **Shipping Size:**
TRICON, 8'Hx8'Wx6.5'L
- **Weight:** 7160 lbs





TEMPER Air Supported (TAS)

Capabilities:

- The TEMPER Air Supported shelters are completely integrated with floor, air plenum, and liners
 - Easy to maintain
 - Reduced dust penetration
- Set-up: 15 min, 4 personnel
- Low pressure air beams (50PSI) do not require continuous air flow
- Designed and tested to 55 MPH sustained winds and 65 MPH gusts
- Withstand full snow loads
- Will accept all military HVAC systems
- Complexes to meet any configuration
 - TEMPER Vestibule to TEMPER Vestibule
 - TEMPER Air Supported to TEMPER Air Supported Endwall
 - TEMPER Air supported to ISO Side or ISO Endwall
 - TEMPER Air supported to TRICON

Information Contact:

Combat Field Service Equipment Team

DSN 256-4486/(508) 233-4486





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FORCE SUSTAINMENT SYSTEMS



Force Provider Electric Kitchen Facility (EKF)

- Kitchen Capabilities:
 - Provides for the preparation, cooking, sanitation, and serving of minimum of 1800 "A" Rations per day
 - Utilizes all electric, high quality Commercial off the shelf (COTS) food service equipment
 - Refrigerator
 - Steam kettle
 - Convection Oven (x2)
 - Tilt/braising Griddle (x2)
 - Griddle, 6 foot
 - Ice Machine (x2)
 - Mixer
 - Heated Food Cabinet (x2)
 - Coffee Brewer
 - Food Slicer
 - Toaster (x2)
 - Grease Trap
 - Microwave Oven
- Housed in two 3:1 ISO lightweight expandable containers
 - Kitchen container
 - Food Prep/Sanitation Center Container
- Includes TRICON Refrigerated Container (TRC) (x3)
- Set up: 1 hour with 4 personnel
- Ventilation system exhausts heat and steam during operation
- Environmentally controlled (cooling/heating)
- All kitchen equipment is integrated and secured with the container during transport
- TEMPER Air Supported based serving tent (20 x 21 foot)
- Interfaces to any base camp operation
- Able to operate as a standalone system

Dining Facility Capabilities:

- TEMPER Air Supported based dinning tent (20 x 96 foot)
- Environmentally controlled (cooling/heating)
- Containerized – TRICON (x6)

Transportable:

- Land/Rail/Sea/Air
- Meets CSC/ISO requirements
 - Highly mobile
 - Forkliftable

Information Contact:

Combat Field Service Equipment Team
DSN 256-4486/(508) 233-4486

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• Power Requirement:

100A, 208V, 3PH (x4),
60A, 208V, 3PH (x6)

• Shipping Size:

ISO, 8'H x 8'W x 20'L (x2)
TRICON, 8'H x 8'W x 6.5'L (x6)

TRICON Refrigerated Container (TRC), 8'H x 8'W x 6.5'L (x3)

• Weight:

12,000 lbs ISO containers
Less than 10,000 each
TRICONS and TRCs





Force Provider Shower Water Reuse System (SWRS)

Capabilities:

- Provides purification of shower waste water for reutilization
 - Treats 75 ~ 80% of the gray shower water produced
 - 12,000 Gallons Per Day capacity (40 GPM peak flow)
 - Produces potable quality water
- Set up: 30 minute with 2 personnel
- System operational temperatures: -25°F to 140°F
- Unattended automatic operation – 3 days without operator interaction
 - Self-monitoring Programmable Logic Control (PLC) with user friendly LCD screen
 - Displays controls, flows, pressures, set-up/operating instructions and troubleshooting
- System includes:
 - Automated chlorine injection
 - Self cleaning (air purge) pre-filter to remove 15 micron waste
 - Auto back wash micro filters to remove 0.02 micron suspended solids
 - RO membranes to remove organic materials, bacteria, virus and soap
 - Activated carbon filtration
 - UV final treatment
 - Continuous water quality monitor

Information Contact:

Combat Field Service Equipment Team
DSN 256-4486/(508) 233-4486



- **Power requirements:**
O100A, 208V, 3PH (×1)

- **Shipping Size:**
TRICON, 8'H×8'W×6.5'L

- **Weight:** 7110 lbs



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FORCE SUSTAINMENT SYSTEMS



Heater, Space, Radiant, Large (H-45 Space Heater) Type II, Liquid Fuel

Capabilities:

The Type II, H-45 Space Heater is a 45,000 BTU heater that is designed to provide heat for the Modular General Purpose Tent System (MGPTS), Modular Command Post System (MCPS), and TEMPER tents. The H-45 heater replaces the antiquated potbelly M-1941 heater. The H-45 heater operates without the use of electrical power and can burn all types of liquid fuel (DF-2, DF-1, DF-A, JP-5, and JP-8). It utilizes the new R-tube burner technology which eliminates the hazardous exposure of a pool of raw fuel during operation and provides a significant improvement in the combustion of diesel fuel while still maintaining simplicity, ruggedness, and low cost.

Description:

The H-45 heater includes all accessories (stack, flue cap, gravity feed adapter, hoses, fuel can stand, etc). The H-45 Heater is operational in temperatures ranging from -60°F to 60°F, and can be stored in temperatures ranging from -60°F to 160°F.

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637

- **Power Requirements:**

None

- **Size (L×W×H):** 18"D × 24"H

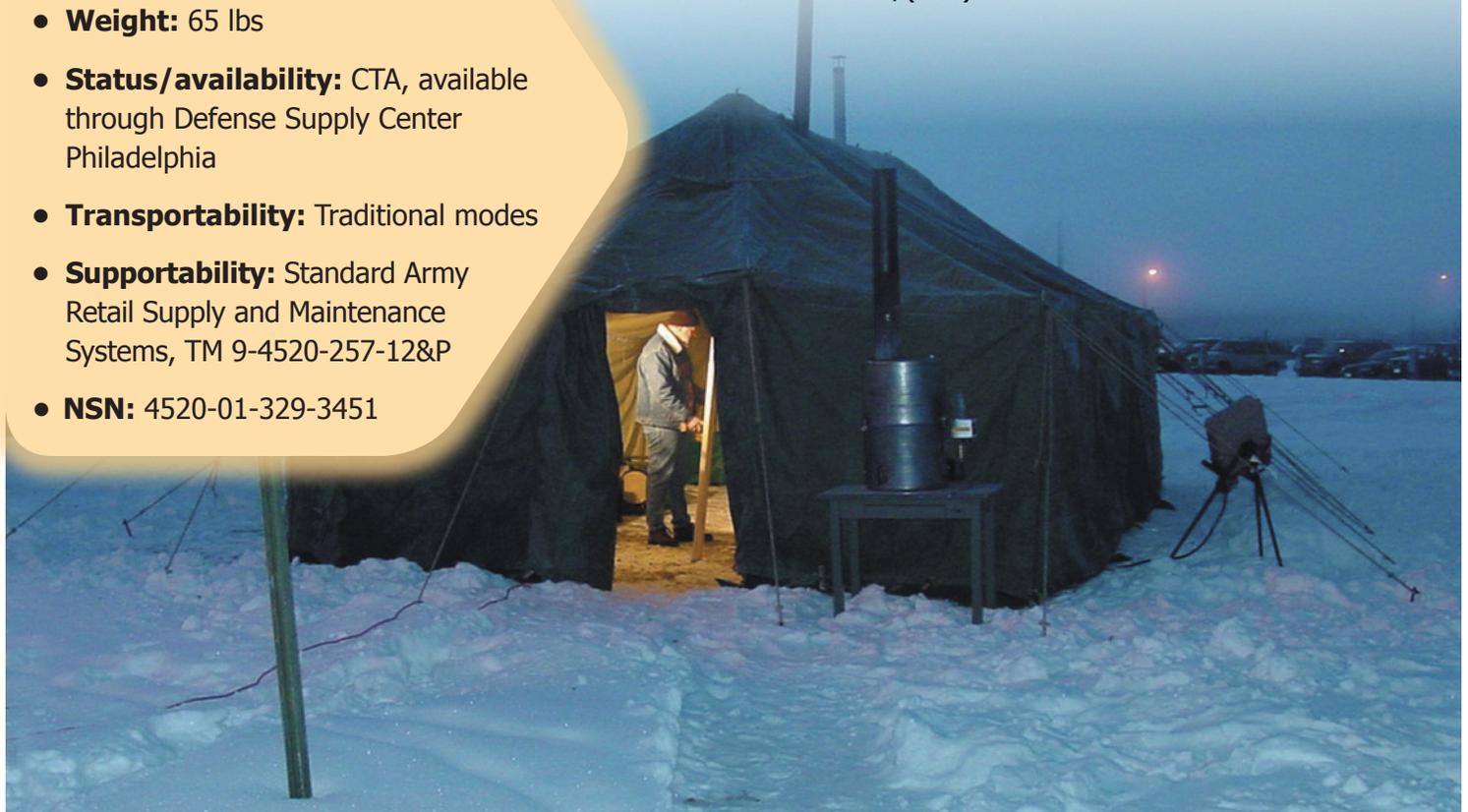
- **Weight:** 65 lbs

- **Status/availability:** CTA, available through Defense Supply Center Philadelphia

- **Transportability:** Traditional modes

- **Supportability:** Standard Army Retail Supply and Maintenance Systems, TM 9-4520-257-12&P

- **NSN:** 4520-01-329-3451





Improved Army Space Heater (IASH)

Capabilities:

Provides clean, heated air to safely warm Soldiers operating in basic cold and extreme cold environments to satisfy the heating requirements for Combat, Combat Support, and Combat Service Support Systems. The IASH operates at a lower temperature, has remote control capability, and provides improved safety over the older Army Space Heater it replaces.

Description:

The IASH is a multi-fueled powered heater that provides a maximum heat output of 140K BTU. Burns JP-8 and diesel fuels.

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637

- **Power Requirements:**
3kW Generator
- **Weight:** 360 lbs
- **Status/availability:**
Class II (ABA Code 5) item for MTOE
Authorized Army units
- **Transportability:**
Two Soldier portable
- **Supportability:** Standard Army
Retail Supply and Maintenance
Systems, TM 9-4520-271-14
- **NSN:** 4520-01-477-0568
- **LIN:** H00586





Large Capacity Field Heater (LCFH)

Capabilities:

The LCFH provides the Joint Forces a fully supportable heater for larger shelters to allow sustained field operations in any cold weather environment. The LCFH is the Army Standard heater for the Army's standard vehicle maintenance shelter, the Lightweight Maintenance Enclosure (LME). Compared to the 400k BTU Herman Nelson Heater, the LCFH operates down to -60°F, provides reductions in system weight, noise and CO emissions, and improvements in system reliability, fuel economy and safety with no leakage of combustion products.

Description:

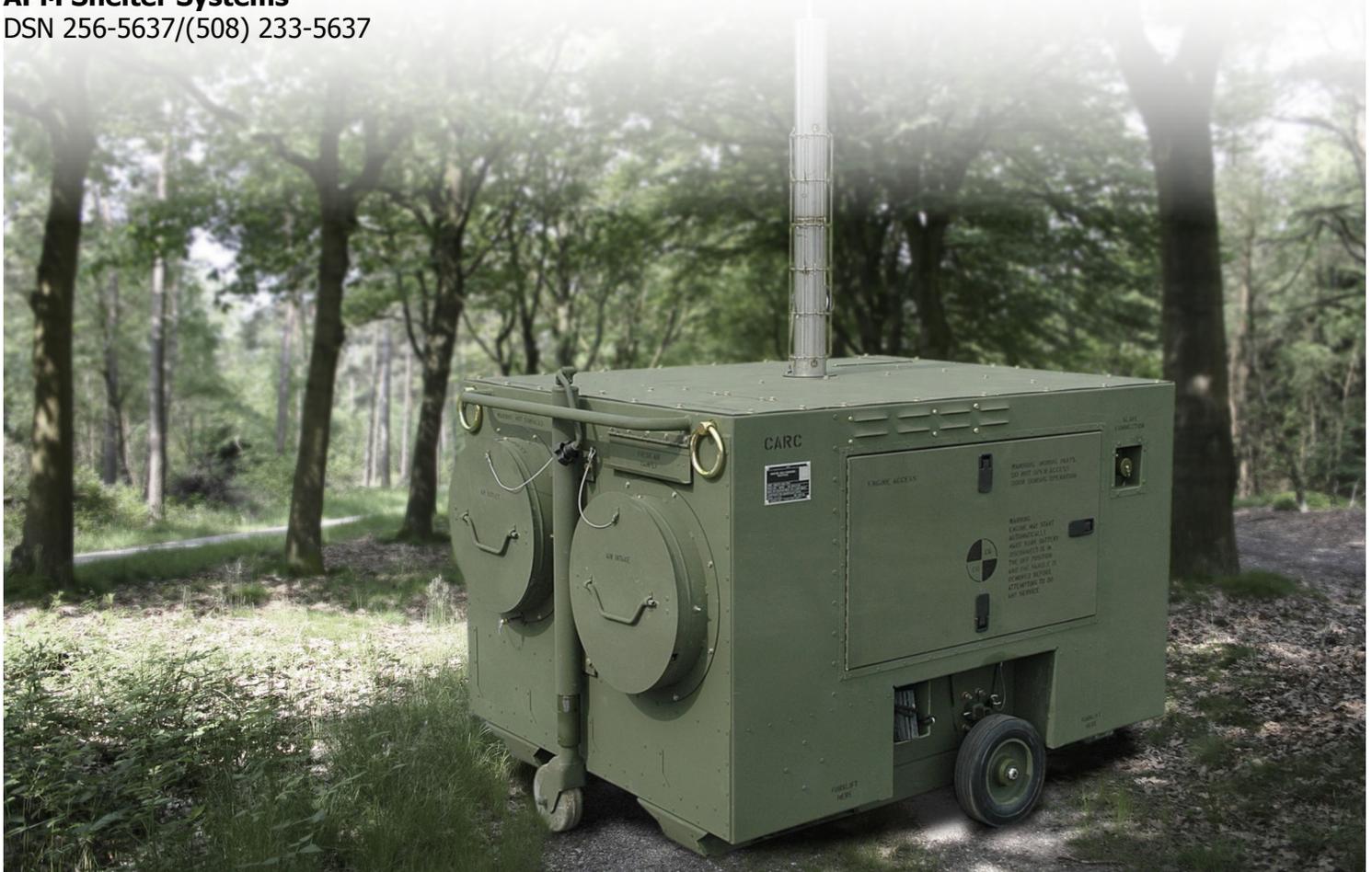
The LCFH is a self-powered 400-450K BTU capacity heater and the largest member of Improved Army Space Heater (IASH) Family. The LCFH operates on JP-8 and all diesel fuels and provides safety features that guard against flame failure, high temperature air out, and carbon monoxide level.

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637

- **Power Requirements:** None
- **Weight:** 750 lbs
- **Status/availability:** MTOE being fielded now
- **Transportability:** Traditional Modes
- **Supportability:** Standard Army Retail Supply and Maintenance Systems Two Level Maintenance
- **NSN:** 4520-01-500-1534
- **LIN:** H00654



Space Heater Arctic (SHA)

Capabilities:

The SHA is a lightweight, portable, multi-fueled (DF-2, DF-1, DF-A, JP-5, JP-8, wood and coal) non-powered heater intended to internally heat 5 and 10-man arctic tents. The SHA provides a maximum heat output of 26,000 BTUs with a high/low adjustment capability.

The SHA replaces the M-1950 Yukon heater. The SHA utilizes the new vaporizing S-tube burner technology which eliminates the hazardous exposure of a pool of raw fuel during operation and provides a significant improvement in the combustion of diesel fuel.

Description:

The SHA is operational in temperatures ranging from -60°F to 60°F, and can be stored in temperatures ranging from -60°F to 160°F. The SHA accessories are comprised of the stack, flue cap, gravity feed adapter, fuel can stand and hoses. All accessory components, including the pre-assembled, telescoping stove pipe, can be stored within the heater making it highly mobile and easy to assemble.

Information Contact:

APM Shelter Systems
DSN 256-5637/(508) 233-5637

- **Power Requirements:**
None
- **Size (L×W×H):** 17"×9"×17"
- **Weight:** 41 lbs
- **Status/availability:** CTA, available through Defense Supply Center Philadelphia
- **Transportability:** Traditional modes
- **Supportability:** Standard Army Retail Supply and Maintenance Systems, TM 10-4520-261-12&P
- **NSN:** 4520-01-444-2375





Space Heater Convective (SHC) 35k BTU

Capabilities:

The SHC 35K BTU thermoelectric heater provides forced hot air circulation in military tentage without the need for an external power supply. The SHC's intended application is for the Modular Command Post System (MCPS) and other similar sized tents. The SHC integrates thermoelectrics and combustion into a fieldable heater that delivers clean, breathable heat to military tentage and shelters. These modules convert waste heat into electrical energy, which is used to power the blowers, pumps, ignition system, safety system, and control devices required in the operation of the heater.

The heater provides a 60% increase in combustion efficiency over currently fielded non-powered heaters and provides much cleaner combustion of diesel fuel, translating to significantly reduced fuel costs and maintenance requirements. The SHC operates outside the tent/shelter and provides forced air heating which supplies better heat distribution than radiant type heaters, frees up floor space, and eliminates the need for a fire guard.

Description:

The SHC is operational from -60°F to 60°F, and can be stored from -60°F to 160°F. The SHC is capable of burning multiple liquid fuels (DF-2, DF-1, DF-A, JP-5, & JP-8). The heater provides single switch startup and heater operation is completely automatic due to built-in diagnostics, safety and temperature controls. Accessories include a remote temperature control box, cable, insulated air ducts, fuel hoses, gravity feed adapter, fuel can stand and spare parts.

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637

- **Power Requirements:** None
- **Size (LxWxH):** 40" x 14" x 18"
- **Weight:** 74 lbs
- **Status/availability:** CTA, available through Defense Supply Center Philadelphia
- **Transportability:** Traditional modes
- **Supportability:** Standard Army Retail Supply and Maintenance Systems, TM 10-4520-262-12&P
- **NSN:** 4520-01-431-8927
- **LIN:** H39372





Space Heater Convective (SHC) 60k BTU

Capabilities:

The SHC 60K mission is to provide Soldiers operating in basic cold and extreme cold environments with a safe, portable, lightweight, multi-fueled, self-powered, forced air space heater. SHC 60K heats the Modular General Purpose Tent System (MGPTS), and other shelters having up to 600 square feet of floor space. The SHC 60K operates outside the tent/shelter and provides forced air heating which supplies better heat distribution than radiant type heaters, frees up floor space, and eliminates the need for a fire guard.

Description:

The SHC 60K is a lightweight, portable, multi-fueled heater that operates outside the tent and requires no external generator. Electrical power to operate the SHC is generated internally, and without any moving parts or noise, by the use of thermoelectric modules, located in the combustion chamber, that convert waste heat into electrical energy. The electricity generated is used to power the blowers, pumps, ignition system, safety system, control devices, and to recharge the battery. The heater provides single switch startup and operation is completely automatic due to built-in diagnostics, safety and temperature controls. Accessories include a remote temperature control box, cable, insulated air ducts, fuel hoses, gravity feed adapter, fuel can stand and spare parts.

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637



- **Power Requirements:**
None
- **Size (LxWxH):**
48" x 17" x 19-1/4"
- **Weight:** 98 lbs
- **Status/availability:** CTA, available through Defense Supply Center Philadelphia
- **Transportability:** Traditional modes
- **Supportability:** Standard Army Retail Supply and Maintenance Systems, TM 10-4520-264-12&P
- **NSN:** 4520-01-520-6477
- **LIN:** H39372



Space Heater Small (SHS)

Capabilities:

The SHS operates at

9,000 to 12,000 BTU/hour output, The heater is designed to provide heat for the Soldier Crew Tent and other 4 or 5 man tents in moderate climatic conditions. The SHS operates without the use of power and burns Diesel, DF-1, DF-2, DF-A, JP-8, Jet A1 and Kerosene.

Description:

The SHS is operational in temperatures ranging from -60°F to 60°F, and can be stored in temperatures ranging from -60°F to 160°F. The SHS also has the capability to operate off an external fuel supply using a fuel can and stand. The SHS includes all accessories. The integral fuel tank design eliminates the need for hoses, gravity feed adapter, fuel can and fuel can stand.

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637

- **Power Requirements:**
None
- **Size (L×W×H):**
16"×8.5"×13.7"
- **Weight:** 32 lbs
- **Status/availability:** CTA, available through Defense Supply Center Philadelphia
- **Transportability:** Traditional modes
- **Supportability:** Standard Army Retail Supply and Maintenance Systems, TM 10-4520-263-12&P
- **NSN:** 4520-01-478-9207





Thermo-Electric Fan (TEF)

Capabilities:

The TEF is a silent, compact, rugged fan unit that is placed on top of military non-powered heaters (H45 & SHC) and converts heat into electricity to power a 450 CFM fan. The fan moves heated air to the bottom and corners of the tent, providing more even heat distribution throughout the entire shelter. The TEF is used with the H-45 Heater and Space Heater Arctic (SHA) to provide circulation of heated air, improve habitability conditions and significantly reduce fuel usage while generating its own electrical power.

Description:

The TEF provides an increase of over 20°F at the floor level of the tent. This allows the soldier to operate their heaters at much lower firing rates, saving a significant amount of fuel and increasing comfort levels in the tent. Tests show that up to 50% fuel savings can be achieved.

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637



- **Power Requirements:** None
- **Size (L×W×H):** 14"D × 10"H
- **Weight:** 12 lbs
- **Status/Availability:** CTA, available through DSCP
- **Transportability:** All traditional modes
- **Supportability:** Standard Army Retail Supply and Maintenance Systems
- **NSN:** 4520-01-457-2790
- **LIN:** 51430



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Standard Army Approved Tent & Heater Combinations

HEATER NAME	HEATER PHOTO	BTU	HEATER NSN	SHELTER NAME
Large Capacity Field Heater (LCFH)		350K	4520-01-500-1534	<ul style="list-style-type: none"> Lightweight Maintenance Enclosure (LME)
H-45 Space Heater		45K	4520-01-329-3451	<ul style="list-style-type: none"> Modular General Purpose Tent System (MGPTS) Modular Command Post System (MCPS) Tent, Extendable, Modular, Personnel (TEMPER) Tent, Frame Type, Expandable, 16' x 16'
Space Heater Arctic (SHA)		28K	4520-01-444-2375	<ul style="list-style-type: none"> 5 Man Arctic 10 Man Arctic
Space Heater Convective (SHC) 35K BTU		35K	4520-01-431-8927	<ul style="list-style-type: none"> Modular Command Post System (MCPS) Modular General Purpose Tent System (MGPTS) Small
Space Heater Convective (SHC) 60K BTU		60K	4520-01-520-6477	<ul style="list-style-type: none"> Modular General Purpose Tent System (MGPTS) Medium Modular Command Post System (MCPS) Tent, Extendable, Modular, Personnel (TEMPER)
Space Heater Small (SHS)		12K	4520-01-478-9207	<ul style="list-style-type: none"> Soldier Crew Tent (SCT)
Thermoelectric Fan (TEF)		N/A (used w/ H-45 & SHA)	4520-01-457-2790	<ul style="list-style-type: none"> Modular General Purpose Tent System (MGPTS) Modular Command Post System (MCPS) Tent, Extendable, Modular, Personnel (TEMPER) 5 Man Arctic 10 Man Arctic

Information Contact: APM Shelter Systems DSN 256-5637/(508) 233-5637



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Family of Cargo Bed Covers (CBC)

Capabilities:

The Family of Cargo Bed Covers (CBC) replaces existing "Built-Up" structures in the field with a standard, safe Army tested item. The CBC protects, stores and secures equipment, tools and pilferable items/supplies while being transported on tactical wheeled vehicles. The CBC does not diminish the mobility requirements of its carrier.

Description:

Each CBC is a lightweight, readily deployable rigid enclosure that is easily mountable to its designed carrier. There are four CBC types:

- Type I (HMMWV)
- Type II (1-½T Trailer)
- Type III (2-½T Truck/LMTV)
- Type IV (5T Truck/MTV)

Type III/IV CBCs are height reducible for internal aircraft (C-130,C-141) transport.

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637

- **Power Requirements:** None. Electrical cable port provided to accept external power.
- **Size (L×W×H):** Sized to fit on carrier bed
- **Weight:** Ranges from 425 lbs. to 760 lbs. depending upon CBC type
- **Status/availability:** CTA item available through TACOM ILSC
- **Transportability:** Traditional modes including external/internal air
- **Supportability:** Standard Army Logistic and Maintenance Systems
- **NSN(s):**
 - Type I: (Camo) 5411-01-467-3243/
(Sand) 5411-01-479-1928
 - Type II: (Camo) 5411-01-467-3185/
(Sand) 5411-01-479-1925
 - Type III: (Camo) 5411-01-472-7852/
(Sand) 5411-01-479-1932
 - Type IV: (Camo) 5411-01-472-7857/
(Sand) 5411-01-479-1933
- **LIN:** C30641





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Lightweight Maintenance Enclosure (LME)

Capabilities:

The LME provides the Joint Forces a fully supportable, lightweight, rapidly deployable, blackout capable, mobile repair shelter for tracked and wheeled vehicles across the battlefield under all climatic conditions.

Description:

The LME is a frame supported shelter with vinyl-coated polyester fabric (white interior) and equipped with an electrical power distribution box and interior lighting. The LME is similar to the TEMPER but with frame and fabric sections modified to add height and width needed for enclosure of tactical vehicles and equipment. The LME is heated with the Large Capacity Field Heater (LCFH).

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637

- **Power Requirements:**
Equipped with Power Distribution Box to accept external power sources
- **Size (L×W×H):** 32'×24'×13.5'
- **Weight:** 1,400 lbs
- **Status/availability:** Recently changed to CTA item. No longer a MTOE item. Available from DLA Troop Support Command.
- **Transportability:** Air, land and sea
- **Supportability:** Standard Army Logistics and Maintenance Systems, TM 10-5410-284-13&P
- **NSN:**
Type I: 8340-01-456-3637 (Green)/
8340-01-507-4375 (Tan)
Type II: 5410-01-512-6867 (Green)/
5410-01-512-6868 (Tan)
- **LIN:** T49947





Modular General Purpose Tent System (MGPTS)

Capabilities:

Provides a multipurpose, modular, weatherproof shelter that improves upon the General Purpose (GP) Small, Medium and Large tents in the areas of habitability, weight, erect/strike time, supportability, durability, mobility, and versatility.

Description:

MGPTS is a large, modular, pole supported tent with vinyl-coated polyester fabric that is a more versatile and habitable replacement for the old GP Small, Medium, & Large tents. Liners, plenum and fabric floors are available as optional items.

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637



- **Power Requirements:**

None. Electrical feed-throughs are provided to accept external power sources.

- **Size (L×W×H):**

Small 18'×18'×11.5' (7' H sidewall)
Medium 36'×18'×11.5' (7' H sidewall)
Large 54'×18'×11.5' (7' H sidewall)

- **Weight:** Small 470 lbs; Med 795 lbs; Large 1107 lbs.

- **Status/Availability:** CTA 50-909 item, available from Defense Supply Center Philadelphia

- **Transportability:** Air, land and sea

- **Supportability:** Standard Army Maintenance System, TM 10-8340-240-12&P

- **NSN:**

Small: 8340-01-456-3633 (Green),
8340-01-491-1507 (Tan)
Med: 8340-01-456-3628 (Green),
8340-01-491-1515 (Tan)
Large: 8340-01-456-3674 (Green),
8340-01-491-1479 (Tan)

- **LIN:** M35064



Soldier Crew Tent (SCT)

Capabilities:

The SCT was originally developed to provide environmental protection for billeting of combat vehicle crews. The SCTs popularity is promoting a change in the authorization of units in need of billeting for small unit elements.

Description:

The SCT is a lightweight, durable, single frame, single hub tent. The tent body is suspended from the frame in a canopy style. An over-cover lies on top of the frame to provide an air gap for added insulation. Two reversible over-covers are available in green/tan or green/white configurations. A cold weather cotton liner is also provided. Houses up to 5 Soldiers comfortably with 120 square feet floor space. Erect/strike is accomplished in less than 5 minutes. A storage/transport cover is included as well as a field repair kit. A 4" stovepipe opening is included for use with standard Space Heater Arctic (SHA).

Information Contact:

APM Shelter Systems
DSN 256-5637/(508) 233-5637

- **Power Requirements:** None
- **Size (L×W×H):** 11'×11'×53"
- **Weight:** 75 lbs
- **Status/availability:** CTA 50-909 item, available through Defense Supply Center Philadelphia
- **Transportability:** All traditional modes
- **Supportability:** Standard Army Retail Supply System and Standard Army Maintenance System, TM 10-8340-227-13 & P
- **NSN:**
Type I (green/tan) 8340-01-359-0084
Type II (green/white) 8340-01-359-1481
- **LIN:** T51043





- **Power Requirements:**
Can be equipped with single phase or 3-phase electrical power
- **Size:** TEMPER sections are interchangeable to form different configurations. Multiple configurations assembled with 8'L x 20'6"W sections. Typical sizes 16' x 20"; 32' x 20'; 64' x 20'.
- **Weight:** 1328 lbs. (Type IV)
- **Status/availability:** CTA Item available from DLA Troop Support
- **Transportability:** Air, Land, Sea, Rail
- **Supportability:** Standard Army Maintenance System, TM 10-8340-224-13&P
- **NSN:**
32 NSNs; 16 TEMPER Types (I thru XVI) in either Green or Tan (e.g. TY IV Green 8340-01-196-6272; TY IV Tan 8340-01-185-2628)
- **LIN:** T47813

Tent, Extendable, Modular, Personnel (TEMPER)

Description:

The TEMPER Tent (Tent Extendable Modular Personnel) is a highly versatile design suitable for a wide range of environments and capable of being assembled using standard modules into a multitude of configurations. These configurations can range from smaller personnel and utility purposes to larger medical or kitchen configurations. In its largest standard form, it can be assembled into a dining facility which can serve 1,100 service people.

The TEMPER has an aluminum frame and is primarily covered with a vinyl coated polyester duck cloth that is fire, mildew and water resistant. The covering also has special coatings which suppress its visual and electronic characteristics to help conceal it from surveillance. It is fitted with features which allows for both heating and air conditioning.

Information Contact:

APM Shelter Systems
DSN 256-5637/(508) 233-5637





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- **Power Requirements:**
None
- **Weight:** 90 - 100 lbs
- **Status/availability:** Woodland & Desert Radar Scattering (R/S) & Woodland & Desert Radar Transparent (R/T) variants are available per funded requisition.
- **Transportability:** Traditional modes
- **Supportability:** Standard Army Retail/ Wholesale Supply Systems, TM 5-1080-250-12&P
- **NSN:**
Woodland R/S 1080-01-457-2956
Desert R/S 1080-01-475-0696
Woodland R/T 1080-01-475-0697
Desert R/T 1080-01-475-0694
- **LIN:** C89480

Ultra-Lightweight Camouflage Net System (ULCANS)

Capabilities:

ULCANS is state of the art camouflage providing increased survivability and multi spectral signature suppression to counter visual, near-infrared, shortwave infrared and radar threats, providing thermal signature suppression. ULCANS anti-s snag design allows for quicker deployment/recovery.

Description:

ULCANS is a durable, snag resistant camouflage screen system and support system that replaces the LCSS. The robust ULCANS design utilizes a one-piece shape disrupter that holds onto the screen reducing probability of Foreign Object Damage (FOD) to systems/equipment and risk to personnel. ULCANS is 25%-30% lighter than LCSS.

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637





Standard Army Approved Tents

*The ONLY Safe,
Fully Supportable and
Warfighter Approved Systems*



Modular Command Post System (MCPS)

NSNs: 8440-01-323-2454 (Green)
8340-01-334-7529 (Tan)



Modular General Purpose Tent System (MGPTS)

NSNs: 8340-01-456-3633 (Green Sm)
8340-01-456-3628 (Green Med)
8340-01-456-3647 (Green Lg)
8340-01-491-1507 (Tan Sm)
8340-01-491-1515 (Tan Med)
8340-01-491-1479 (Tan Lg)



Lightweight Maintenance Enclosure (LME)

NSNs: 5410-01-456-3637



Tent Extendable Modular Personnel (TEMPEM)

NSNs: 8340-01-196-6272 (Type IV - 32')
8340-01-443-7335 (Type XVII - 64')
8340-01-443-7342 (Type XVIII - 96')
8340-01-443-7330 (Type XIX 32')



Soldier Crew Tent (SCT)

NSNs: 8340-01-359-0084 (Type I green/tan)
8340-01-359-1481 (Type II green/white)

Information Contact:

APM Shelter Systems

DSN 256-5637/(508) 233-5637

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