

**FPU® SYSTEMS OPERATION MANUAL
(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
FPU/BOH CARGO CONTAINERS MODELS
FPU-8-2, BOH-CARGO-12-1, BOH-CARGO-6 & FPU-20-1 & FPU-20-2
BOH FPU Field Pack-up Units**

FPU 8-2



BOH CARGO 12-1



FPU 20-1 & FPU 20-2



BOH-CARGO-6



**BOH FPU® SYSTEMS
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WARNING SUMMARY

This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to persons using equipment.

WARNING



Do not allow the system to swing if using an overhead lift. Always ensure an appropriate sling is used in the lift. Always use properly sized forklift, crane, or lifting device. Failure to comply could cause injury, death or damage to the equipment.

WARNING



Use extreme caution when loading or unloading the FPU to or from a transport vehicle. Keep hands, fingers, and feet clear of the container and components during this operation. Forklift support is required. Make sure all container connectors are properly seated and locked secure. Failure to comply could cause serious injury or death or damage to the equipment.



Standard forklift principles apply when working with or on the FPU container. Ground guides and the HME operators must insure that personnel are clear of the containers during this operation. When working with ground guides during the loading or unloading, never move the container while the ground guide is unseen. Serious injury could occur if the ground guide is pinned between the FPU container and other objects. Forklift operators must maintain visual contact with their ground guides at all times. Failure to comply could cause serious injury or death or damage to the equipment.



Always follow standard forklift procedures. A tilt hazard exists when forklift operators try to lift a FPU container from the wrong side. Always lift a container via the forklift pockets that are provided. This places the heavier part of the load back into the tines versus out on the tips. A tilt situation exists when the heaviest part of the load is out on the tips of the tines, on uneven ground, with forks fully extended, and while traveling. Operators should always keep loads low and close to the forklift carriage. Operators should never travel when the load is in the fork's extended position.

WARNING



The modules and their contents are heavy and could cause injury if they fall onto or strike personnel. A tilt hazard exists when the module is either outside of the FPU container system or inside the FPU container system, but not locked down. As a rule, always work on one pallet or drawer at a time. Never have more than one drawer extended in the full open position at a time, especially if loaded. Personnel should never stand on a drawer or pallet.

WARNING SUMMARY

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WARNING



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WARNING



Fall hazards exist when climbing onto or working from the top of the container. Always maintain three points of contact to the ladder and container when climbing onto the container. Never move, step, or walk backwards when working on top of the system. All movement should be in the forward direction. A fall can occur if personnel lose concentration and step backwards off of the edge. Stand erect only if necessary and only away from the edge. Working from a kneeling position helps reduce the threat of a fall. The FPU may be used to store various forms of oils, lubricants, and other potentially slippery substances. Keeping the inside floor of the FPU clean is important, nevertheless, always move with caution inside of the FPU. Failure to maintain cleanliness and caution could cause a slip and injury.

WARNING



The module drawers and pallets can be heavy and awkward to handle by a single person. This is especially true of the larger components. The adjustment of these items is a two-person operation. While a forklift is not essential MHE support to hold the pallets in position while the hardware is installed and secured, it simplifies the effort. Do not try to adjust the pallets or drawers without assistance or MHE support. Ensure that all modules are properly locked down before any movement or transport of the containers.

WARNING SUMMARY

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ISO Container Overhead Power Line Warning



WARNING

Overhead power lines and obstructions can cause serious injury or damage to property. Forklift operators, truck drivers, and ground guides should always make sure the area is clear overhead when loading, unloading, moving the FPU containers or when accessing the roof.

WARNING



Protective gloves should be worn when handling metal parts in high temperatures. Failure to wear gloves may result in burning or blistering of the skin upon contact.

WARNING



Protective gloves should be worn when handling metal parts in below freezing temperatures. Failure to wear gloves may result in skin freezing to the metal upon contact and cause tearing of the flesh when attempting to pull away from the metal.

WARNING



The FPU is NOT designed to be operated in contaminated NBC Environments. Do not operate the FPU in contaminated NBC environments. If possible cease operation of the FPU prior to a NBC event and do the following:

1. Close and secure all doors. External surfaces of the FPU's are CARC painted and can be decontaminated, however, whenever possible avoid contamination of the internal areas of the FPU's.
2. Decontaminate the exterior surfaces of the FPU in accordance with FM 3-5. Only Qualified NBC NCO's should check for residual contamination before opening the container.
3. Remain in MOPP 4 posture when opening the doors and have the NBC NCO check for contamination on interior surfaces. If thorough decontamination is required refer to NBC NCO and FM 3-5 for procedures.

GENERAL WARNINGS



HEAVY PARTS - heavy object on human figure shows that heavy parts present a danger to life or limb.



HEAVY PARTS - heavy object pinning human figure against wall shows that heavy, moving parts present a danger to life or limb.



HEAVY PARTS - hand with heavy object on top shows that heavy parts can crush and harm.



HEAVY PARTS - foot with heavy object on top shows that heavy parts can crush and harm.



SLICK FLOOR - wavy line on floor with legs prone shows that slick floor presents a danger for slipping or falling.



HEAVY OBJECT - human figure stooping over heavy object shows physical injury potential from improper lifting technique.



ELECTRICAL - electrical wire to arm with electricity symbol running through human body shows that shock hazard is present.



HOT METAL SURFACES- Metal surfaces may become hot in extreme heat areas; prolonged contact may cause burning or blistering of the skin.

GENERAL WARNINGS



ELECTRICAL - electrical wire to hand with electricity symbol running through hand shows that shock hazard is present.



CRYOGENIC - hand in block of ice shows that the material is extremely cold and can injure human skin or tissue.



FIRE - flame shows that a material may ignite and cause burns.



VAPOR - human figure in a cloud shows that material vapors present a danger to life or health.



CHEMICAL - drops of liquid on hand shows that the material will cause burns or irritation to human skin or tissue.



EYE PROTECTION - person with goggles shows that the material will injure the eyes.



EXPLOSIVE GASSES PRECAUTIONS- Gasses from batteries and other material may be stored in the containers or modules, special precautions should be taken.

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 FPU/BOH CARGO CONTAINERS MODELS
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 BOH FPU Field Pack-up Units**

REPORTING ERRORS & IMPROVEMENTS

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. Please let us know if you find any mistakes or if you know of a way to improve the procedures. You may send in your recommended changes by E-mail directly to: dcresap@bohfpusystems.com. A reply will be furnished directly to you.

Approved for public release; distribution is unlimited.

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HOW TO USE THIS MANUAL

This manual contains general information, operating instructions, Preventative Maintenance Checks and Services (PMCS), and maintenance/repair instructions for the FPU-8-2/BOH-CARGO 12-1, FPU-20-1&2, BOH-CARGO-6 and optional Modules.

Front matter consists of front cover, warning summary, title block, table of contents, "how to use this manual" pages, and provides information on the FPU and its associated equipment. Chapter 1 provides equipment description and data as well as the theory of operation. Chapter 2 provides instructions for operating under usual and unusual conditions. Chapter 3 contains troubleshooting procedures authorized at the Operator and Unit level. Chapter 4 contains Preventative Maintenance Checks and Services (PMCS) and Operator Maintenance Instructions. Chapter 5 contains Unit Maintenance Instructions. Chapter 6 contains the Maintenance Allocation Chart (MAC); it also includes the Repair Parts & Special Tools List (RPSTL) that identifies parts or tools unique to the operation and maintenance of the FPU.

Manual Organization and Page Numbering

This manual is divided into six major chapters that detail the topics mentioned above. Within each chapter are work packages covering a wide range of topics. Each work package is numbered sequentially at page 1, and has its own page numbering scheme that is independent of the page numbering used by other work packages. Each page of a work package has a page number of the form "XXXX YY-ZZ", where "XXXX YY" is the work package number (e.g. 0010 00 is work package 10) and "ZZ" represents the number of the page within that work package. Blank pages will be labeled "This page was intentionally left blank".

Finding Information

The Table of Contents permits the reader to quickly find information in the manual. The reader should start here first when looking for a specific topic. The Table of Contents lists the topics contained within each chapter and the work package sequence number where it can be found.

Types of notations

Warnings - Warnings are posted immediately prior to text covering any area that would present a situation that may result in injury or death. Compliance is mandatory.

Cautions - Cautions will be found on the same page and preceding the text covering any area that would present a situation that may result in damage to equipment.

Notes - Notes will precede text covering an area with the intent to alter normal procedures for unique situations or equipment, or point out areas of special concern.

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BOH FPU Field Pack-up Units**

CHAPTER 1

**INTRODUCTORY INFORMATION
WITH
THEORY OF OPERATION**

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INTRODUCTORY INFORMATION WITH THEORY OF OPERATION

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GENERAL INFORMATION

SCOPE**Equipment Covered**

This technical manual contains instructions for the operation, preventative maintenance, and recommended Unit/Direct Support corrective maintenance for the Boh FPU Container Systems and the associated equipment.

Type of Manual

This is an Operator, Unit and Direct Support, Operation and Maintenance Manual.

Equipment Name, Part Number and NSN

BOH FPU and Cargo Containers Table

BOH FPU SERIES	PART NUMBER	NSN
FPU-20-1 FOREST GREEN	15002001G	8150-01-473-1207
FPU-20-1 DESERT TAN	15002001T	8150-01-518-8750
FPU-20-2 FOREST GREEN	15002002G	8150-01-473-1208
FPU-20-2 DESERT TAN	15002002T	8150-01-518-8751
FPU-8-2 FOREST GREEN	15000802G	8150-01-473-1213
FPU-8-2 DESERT TAN	15000802T	8150-01-518-8749
BOH CARGO SERIES	PART NUMBER	NSN
BOH-CARGO-12-1 FOREST GREEN	15001201G	8150-01-502-0581
BOH-CARGO-12-1 DESERT TAN	15001201T	8150-01-518-8859
BOH-CARGO-6 FOREST GREEN	15000501G	8145-01-481-0611
BOH-CARGO-6 DESERT TAN	15000501T	8145-01-518-8866
End of BOH FPU and Cargo Containers Table		

ACCESSORIES Table

AVAILABLE ACCESSORIES FOR CONTAINERS	PART NUMBER	NSN
HORIZONTAL INTERCONNECTORS	15150108	8145-01-523-4120
RESTRAINT LOCKS, 2,250LBS	15150118	8145-01-523-4079
BRIDGE LOCK, 25,000LBS	15150115	8145-01-523-4136
FLOOR PLATE, SINGLE	15530101	8145-01-473-3026
FLOOR PLATE, DOUBLE	15530102	8145-01-473-3032
CASTER KIT FOR FPU-8-2	15300004	8145-01-523-4122
End of AVAILABLE ACCESSORIES FOR CONTAINERS		

BOH FPU Module Table

AVAILABE STANDARD SHIPPING/STORAGE MODULES	PART NUMBER	NSN
CLASS 1. PARTS MODULES	15700008	8145-01-523-4000
	15700009	8145-01-523-4003
	15700026	8145-01-501-0900
CLASS 2. PARTS MODULES	15700005	8145-01-523-4005
	15700007	8145-01-501-0865
	15700023	8145-01-523-4011
	15700024	8145-01-501-0892
	15700025	8145-01-501-0896
CLASS 3. PARTS MODULES	15700003	8145-01-523-4014
	15700014	8145-01-501-0869
	15700016	8145-01-523-4028
	15700019	8145-01-523-4022
CLASS 4. PARTS MODULES	15700018	8145-01-523-4025
CLASS 5. PARTS MODULES	15700011	8145-01-522-0667
	15700013	8145-01-501-0866
	15700020	8145-01-523-4039
	15700022	8145-01-523-4040
CLASS 6. PARTS MODULES	15700017	8145-01-502-2491
	15700021	8145-01-502-2494
End of AVAILABLE BOH FPU Module Table		

SPECIALIZED SHIPPING/STORAGE MODULES Table

AVAILABE SPECIALIZED SHIPPING/STORAGE MODULES	PART NUMBER	NSN
HULL WEAPONS MODULE	15500003	8145-01-502-2593
M16A2 SHIPPING/STORAGE DRAWER	15500103	8145-01-502-2605
M16A2/M4 Drawer	15500104	8145-01-586-8128
9MM SHIPPING/STORAGE DRAWER	15500102	8145-01-502-2611
8-INCH SHIPPING/STORAGE DRAWER	15520860	8145-01-528-2853
FLAMMABLE/CORROSIVE MODULE	15500101	8145-01-473-1288
SHORT/HELO MODULE, STORAGE/SHIPPING	15700201	8145-01-502-0591
BULK MODULE W/3 TRAYS	15410201	8145-01-588-3689
BULK MODULE W/2 TRAYS	15410202	8145-01-588-3690
BULK MODULE W/3 BINS	15410203	8145-01-588-3691
BULK MODULE W/2 BINS	15410204	8145-01-588-3692
ACCESSORIES FOR MODULES	PART NUMBER	NSN
4-INCH DIVIDER OPTION W/ LONGITUDINAL	15524001	8145-01-523-4068
4-INCH DIVIDER OPTION	15524002	8145-01-523-4592
6-INCH DIVIDER OPTION	15524003	8145-01-523-4591
6-INCH DIVIDER OPTION W/LONGITUDINAL	15524004	8145-01-523-4149
8-INCH DIVIDER OPTION	15524005	8145-01-523-4145
10-INCH DIVIDER OPTION	15524006	8145-01-523-4142
12-INCH DIVIDER OPTION	15524007	8145-01-523-4140
16-INCH DIVIDER OPTION	15524008	8145-01-523-4138
MODULE SLIP COVER	15522004	8145-01-523-4076
MODULE TRANSFER PLATE	15530118	8145-01-523-4073
SECURITY LOCKING BAR	15500021	8145-01-502-2630
AVAILABLE SPECIALIZED SHIPPING/STORAGE RACK SYSTEMS FOR THE BOH-CARGO-12	PART NUMBER	NSN
PARTS STORAGE RACK FOR BOH-CARGO-12	15310023-1POS	8145-01-524-0249
BULK STORAGE RACK FOR BOH-CARGO-12	15310022-1POS	8145-01-524-0244
BULK TIE-DOWN RINGS	16509501	8145-01-513-6262
End of AVAILABLE SPECIALIZED SHIPPING/STORAGE MODULES Table		

FPU Types and Configurations

Description and Certifications.

The FPU consists of modular containers with bin, pallet, security basket, and bulk storage configurations tailored to meet individual Supply/Maintenance/ Logistical Support needs. The system has the ability to operate in fixed facilities or field environments in either its uploaded or downloaded configuration. Containers are air-deployable and linkable into variable length sections. The FPU provides containerized Class I, II, III(P), IV, V, VII, VIII and IX storage with full strategic/tactical intermodal transportability for supply support activities. . All FPU containers are side load. The FPU Mobility System series containers are designed to be transported by standard Materiel Handling Equipment (MHE), LHS, PLS, PLS Trailer, RTCH, Standard Flatbed Trailers, Strategic Aircraft (C-130, C-17 and C-5) and Commercial/MSD ships. Tubular steel construction with ISO corner blocks enables the FPU-8-2/Boh-Cargo-12-1 and FPU-20 series container to be stacked nine high on commercial and MSD ships. The FPU comes in two color variations: Forest Green and Desert Sand.

FPU-20 Series Containers

All FPU-20 series containers are certified by the American Bureau of Shipping (ABS) to meet all requirements for International Convention for Safe Containers (CSC) and for International Organization of Standards (ISO) and FPUs are USAF certified for transport on C-130, C-5 and C-17 aircraft. They are PLS Flat-rack compatible.

The FPU 20-1 and FPU 20-2 series are 8'W x 8'H x 20'L ISO Certified (Type 1C) Containers. They are capable of transport via standard MTO&E including trailers and LHS/PLS systems when loaded on the M1077 Flatrack. Each FPU-20 is ISO certified and CSC Safety Approved by the American Bureau of Shipping. These containers are side load with recessing pocket doors. They accept a series of standard and specialized storage and shipping modules. The FPU-20-1 has a maximum capacity of 52,900 lbs. The FPU-20-2 has a maximum capacity of 33,000 lbs. Both the FPU-20-1 and FPU-20-2 can be stacked 9 high.

FPU 8-2 Series Containers.

The FPU-8-2 is 8'W x 92"H x 7'L with ISO corner blocks and has a maximum capacity of 18,000 lbs. These containers are side load with recessing pocket doors. They accept a series of standard and specialized storage and shipping support modules. The FPU-8-2 is approved for air transport aboard USAF C-130, C-5, and C-7 aircraft. They are PLS/Flatrack compatible. The FPU-8-2 can be stacked 9 high. Two FPU-8-2s and a Boh-Cargo-6 can be loaded and locked to a PLS Flatrack using the existing ISO twist locks on the Flatrack and bridge locks to tie the containers together at their corner blocks. Container caster kit is also available for FPU-8-2 containers. The casters have a capacity of 3,000 lbs each and a maximum capacity of 12,000 lbs for a set of 4 (see appendix).

BOH-Cargo-12-1 Container.

The BOH-Cargo-12-1 measurements are 153"L x 8'W x 92"H. It is side-loaded and consists of four bi-fold doors on each side. It is designed to accept a varying array of trays, fully extendable and adjustable drawers and adjustable pallets. It is PLS Flatrack compatible and has a maximum air/ground capacity of 18,000 lbs. The BOH-Cargo-12-1 can be loaded and locked to a PLS Flatrack using the existing ISO twist locks on the Flatrack and horizontal inter-connectors that tie the containers together at their corner blocks. The BOH-Cargo-12-1 can be stacked 9 high.

BOH-Cargo-6 Container.

The BOH-Cargo-6 (or Boh-6) is a general-purpose side load bulk cargo container and is not ISO certified. The single door is equipped with exterior hinges and recessed cam type locking handle and comes with adjustable sectional shelves. The BOH-Cargo-6 measures 96" W x 72"L x 92" H with ISO corner blocks. It has a maximum capacity of 10,000 lbs and it can be fitted with additional shelves as required. It is designed as a stand-alone utility container or to fit between two FPU-8 series containers to completely fill the 20 ft. configuration. It allows connection with the twist locks when using a PLS Flat-rack. The BOH-Cargo-6 can be stacked 3 high.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your FPU needs improvements in design and/or performance, let us know. Send us a description of the recommended change to dcresap@bohfpusystems.com.

CORROSION PREVENTION AND CONTROL (CPC)

It is our understanding that Corrosion Prevention and Control (CPC) is a continuing concern for the military. While corrosion is typically associated with rusting of metals, it can also include deterioration of other material, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

All units must adhere to their specific corrosion maintenance plan. At a minimum, equipment should be inspected for corrosion on a quarterly basis (monthly if equipment is operated/stored in a high salt air environment). If corrosion is discovered, consult your unit/installation corrosion control manager to schedule repair. It is important that any corrosion problem with the FPU be reported so that the problem can be corrected and improvements can be made to prevent the problem in the future.

PREPARATION FOR STORAGE OR SHIPMENT

All preventative maintenance checks and services should be performed on the FPU and its components prior to any storage or shipment.

RECEIVING THE FPU INVENTORY**Unpacking and Inventory of FPU Components upon Initial Receipt**

With the FPU containers downloaded, check the equipment against the packing list. Report any discrepancy to your supervisor.

END OF WORK PACKAGE

INTRODUCTORY INFORMATION WITH THEORY OF OPERATION

FPU® SYSTEMS OPERATION MANUAL (INCLUDING REPAIR PARTS & SPECIAL TOOL LIST) FPU/BOH CARGO CONTAINERS MODELS FPU-8-2, BOH-CARGO-12-1, BOH-CARGO-6 & FPU-20-1 & FPU-20-2 BOH FPU Field Pack-up Units

THEORY OF OPERATION

FPU 8-2, BOH-CARGO-12-1, BOH-CARGO-6 and FPU-20-1 & 2

The FPU-8-2/BOH-CARGO-12-1 (Combination) when joined in a twenty-foot configuration using our ISO certified Horizontal Interconnectors is capable of transport via the LHS or PLS utilizing a PLS flat-rack and commercial/MSK ships. This container system consists of a 7-foot long container (FPU-8-2) and a 12-foot 9-inch long container that when connected together with our ISO certified connectors form an 8' W x 92" H x 20' L, ISO certified (Type 1C) container. This feature allows the container to be separated and moved when heavy lift MHE is limited or unavailable.

FPU-8-2 Container

The FPU-8-2 container can be configured to accommodate up to four standard or specialized modules, up to two bulk storage modules with pullout trays or bins; or a combination of these modules. The FPU-8-2 consists of 2 pocket doors (both sides) that retract into the container, foldable roof access steps, forklift pockets and a convection type ventilation system.

BOH-CARGO-12-1 Container

The container can be configured to accommodate up to two bulk storage aids systems, up to two parts storage aids systems, up to sixteen tie-down rings or a combination of these storage aids. It consists of 2 bi-fold barn doors (both sides), forklift pockets and a convection type ventilation system.

FPU-20-1 & FPU-20-2 Containers

The FPU-20-1 & FPU-20-2 containers can be configured to accommodate up to ten standard or specialized modules, up to four bulk storage modules or a combination of these storage modules. The FPU-20-1 and FPU-20-2 consists of five pocket doors (each side) that retract into the container, foldable roof access steps, forklift pockets and a convection type ventilation system.

BOH-CARGO-6 Bulk Container

NOTE

The BOH FPU Module systems do not apply to the BOH-CARGO-6 container.

The BOH-CARGO-6 is a general-purpose side load bulk cargo container and is not ISO certified. The single door is equipped with exterior hinges and recessed cam type locking handle and comes with adjustable sectional shelves. The BOH-CARGO-6 measures 96"W x 72"L x 92"H with ISO corner blocks. It has a maximum capacity of 10,000 lbs. and it can be fitted with additional shelves as required. It is designed as a stand-alone utility container or to fit between two (2) FPU-8 series containers to completely fill the 20 ft. configuration. The BOH-CARGO-6 can be stacked 3 high.

END OF WORK PACKAGE

INTRODUCTORY INFORMATION WITH THEORY OF OPERATION

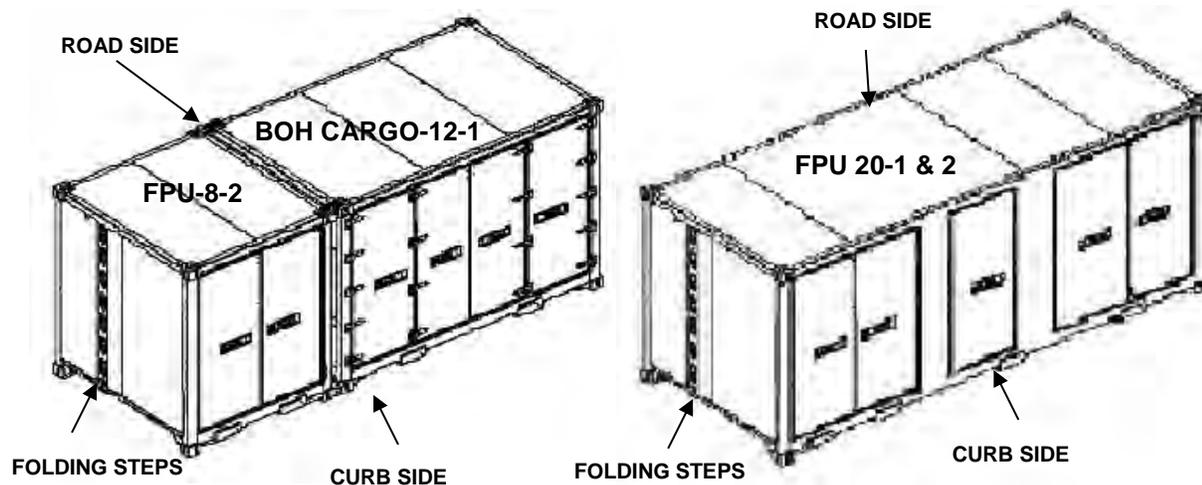
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(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
FPU/BOH CARGO CONTAINERS MODELS
FPU-8-2, BOH-CARGO-12-1, BOH-CARGO-6 & FPU-20-1 & FPU-20-2
BOH FPU Field Pack-up Units**

EQUIPMENT CHARACTERISTICS, COMPONENTS AND ACCESSORIES

Boh FPU Cargo Container Systems are a durable standardized storage and transport system capable of rapidly mobilizing material. These systems can be configured to store and transport small, medium, large, palletized and bulk material. The FPU-8-2/BOH-CARGO-12-1(Combination), FPU-20-1 & FPU-20-2 containers are side-load containers. These container systems are ISO Certified and CSC Safety Approved and can be stacked nine high onboard commercial or MSC container ships. FPU-8-2/BOH-CARGO-12-1 (Combination) and FPU-20-2 have a maximum capacity of 33,000 lbs. The FPU-20-1 has a maximum capacity of 52,900 lbs. The BOH FPU containers come in two color variations: Forest Green and Desert Sand.

NOTE

This work package WP 0003 00 covers the FPU 8-2/BOH-CARGO-12-1, FPU-20-1 & FPU-20-2 and the variety of configurations for the internal storage aids that are available.



FPU-8-2/BOH-CARGO-12-1, FPU-20-1 & FPU-20-2 Optional Container Configurations

The FPU-8-2/BOH-CARGO-12-1 (Combination), FPU-20-1 & FPU-20-2 container systems are modular systems that can be configured with a variety of internal storage aids (see our web site at www.bohfpusystems.com for more information) to satisfy user needs. The following are storage aids that can be installed inside these containers:

- 19 standard removable storage modules for small and medium size material. These modules consist of 4-inch, 6-inch, 8-inch, 10-inch, 12-inch, 16-inch and bulk drawers.
- Flammable / Corrosive modules for storage of hazardous material.
- Weapons Vault module for the storage of M16A2, M4, 9mm weapons and sensitive material/equipment requiring additional security.
- Bulk Storage Module for large material with a maximum payload of up to 3,000 lbs.
- Parts storage aids with drawers for medium size material.
- Bulk storage aids with pallets for palletized material.
- Tie-down rings for oversize bulk material.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

FPU-8-2/BOH-CARGO-12-1, FPU-20-1 & FPU-20-2

The Field Pack-Up Unit (FPU) when joined in a twenty-foot configuration is capable of transport using the LHS or PLS when loaded on to a PLS Flatrack. The FPU-8-2/Boh-Cargo-12-1 (Combination) container system consists of a seven foot long container and a 12-foot 9-inch long container that when connected together with our ISO certified connectors form an 8' W x 92" H x 20' L ISO certified container. This feature allows the container to be separated and moved when heavy lift MHE is limited or unavailable.

FPU-8-2 Container

The FPU-8-2 container can be configured to accommodate up to four standard or specialized modules, up to two bulk storage modules with pullout trays or bins; or a combination of these modules. The FPU-8-2 consists of 2 pocket doors (both sides) that retract into the container, foldable roof access steps, forklift pockets and a convection type ventilation system.

BOH-CARGO-12-1 Container

The container can be configured to accommodate up to two bulk storage aids systems, up to two parts storage aids systems, up to sixteen tie-down rings or a combination of these storage aids. It consists of 2 bi-fold barn doors (both sides), forklift pockets and a convection type ventilation system.

FPU-20-1 & FPU-20-2 Containers

The FPU-20-1 & FPU-20-2 containers can be configured to accommodate up to ten standard or specialized modules, up to four bulk storage modules or a combination of these storage modules. The FPU-20-1 and FPU-20-2 consists of five pocket doors (each side) that retract into the container, foldable roof access steps, forklift pockets and a convection type ventilation system.

BOH FPU STORAGE AIDS

Standard Storage Modules

Boh Standard Storage Modules come in 19 configurations and are designed to accommodate small and medium material. Module drawers come in 4-inch high profile with retention lid to secure small loose parts in individual compartments, 6-inch, 8-inch, 10-inch, 12-inch and 16-inch high profiles and bulk drawers. Internal drawer dividers are adjustable every 2-inches from front to back and vary from side to side. These modules are extremely rugged and were designed for the dynamics realized during mobile application. Drawers have a maximum capacity of 200 lbs to 400 lbs depending on the drawer size and type. Modules are secured to the FPU container with a twist lock located inside the container and female receptacle located on the bottom of the module. Using a forklift and the forklift pockets located at the bottom of the module, they can be easily removed by pulling the locking arm outward to release the module from the twist lock. Modules consists of a removable locking bar to secure drawers during transport, individual drawer locks and an optional dust cover to resist dust from penetrating the drawers when operating outside the FPU container. Boh Standard Storage Modules are approved for airlift when shipped inside the FPU container or when shipped independent of the container. For more information about our standard storage modules, see our web site at www.bohfpusystems.com.

Specialized Storage Modules

Flammable / Corrosive Module: The Boh Flammable / Corrosive module is constructed to meet NFPA 30 and 29 CFR for the storage of hazardous material. These modules are extremely rugged and were designed for the dynamics realized during mobile application. It consists of dual wall construction with all steel exterior and spark resistant aluminum interior. Continuous welded drawers and floor area provide containment in the event of leaks. Drawer slides are designed using Ultra High Molecular Weight (UHMW) material to eliminate metal-to-metal contact and prevent sparks during transport. Door completely seals when in the closed position to protect stored material from the environment during transport. This module consists of a pressure relief valve to normalize internal pressure prior to opening. For more information about our Flammable / Corrosive modules, see our web site at www.bohfpusystems.com.

Weapons Vault Module: The Boh Weapons Vault module is constructed with a dual wall, all-steel exterior / interior and accommodates 5 weapons drawers or security drawers. There are currently four different weapons drawers. The M16A2 is designed to store M16 weapons. Each drawer can store up to 8 rifles or 40 weapons in a single module. The M16A2/M4 drawer is designed to store M16A2 and M4 weapons. Each drawer can store up to 7 weapons per drawer or 35 weapons in a single module. The M16-A2/M4 drawer is adjustable to accommodate M16A2, M4 short barrel or M4 long barrel. M16A2 and M4 weapons can be stored in the drawers and module with the laser sight installed when attached at the top of the weapon. The 9MM drawer is designed to store 9MM weapons. Each drawer can store up to 56 weapons or 280 weapons in a single module. The 8-inch security drawer is designed to provide storage for sensitive or pilferage items that require additional security. These modules are extremely rugged and were designed for the dynamics realized during mobile application. For more information about our Weapons Vault modules, see our web site at www.bohfpusystems.com.

The BOH FPU Bulk Storage Module: is designed for the storage of material. These modules are extremely rugged and were designed for the dynamics realized during mobile application. Shelf load capacities are 1,000 lbs. Shelves are retractable to allow access to material stored at the rear of the shelf. Shelves lock in the closed and open position. Each shelf consists of a cargo net to secure material during transport. For more information about the BOH Bulk Module, see our web site at www.bohfpusystems.com.

Bulk Storage Aids

The Boh Bulk Storage Aids are designed for the storage of bulk and/or palletized material. These trays and pallets are extremely rugged and were designed for the dynamics realized during mobile application.

Bulk Storage Aids for the Boh-Cargo-12-1 consists of four vertical uprights that are mounted to the floor and ceiling of the containers, three 48-inch wide standard pallets, one 32-inch standard pallet, one 48-inch hazmat pallet with secondary containment and one 32-inch hazmat pallet with secondary containment. Each standard pallet comes with four 2-inch ratchet straps and the hazmat pallets come with cargo nets. Individual pallets are adjustable up and down at four-inch intervals. Tie-down rings are located at the bottom of the vertical uprights to secure floor-loaded material. Each floor load position comes with a cargo net. Pallets are secured into position by a rear cam lock that engages when the pallet is inserted into the pallet ledge. The front of the pallet is secured using two jackscrews located on the front the pallet ledges.

For more information about our Bulk Storage Aids, see our web site at www.bohfpsystems.com.

Parts Storage Aids

The Boh Parts Storage Aids are design for the storage of medium size material that are to large for Boh standard modules and to small for pallets. These trays and drawers are extremely rugged and were designed for the dynamics realized during mobile application. Boh Parts Storage Aids for the Boh-Cargo-12-1 consists of four vertical uprights that are mounted to the floor and ceiling of the containers, eight 48- inch wide by 12-inch deep drawers, two 48-inch wide by 2-inch deep drawer, one 32-inch wide by 8- inch deep drawer and one 32-inch wide by 2-inch deep drawer. All 2-inch drawers come with a cargo net to secure material during transport. Drawers have a maximum capacity of 150 lbs. Drawers consist of locks that secure the drawer in the closed and open position. For more information about our Parts Storage Aids, see our web site at www.bohfpsystems.com.

BOH FPU CARGO CONTAINER ACCESSORIES

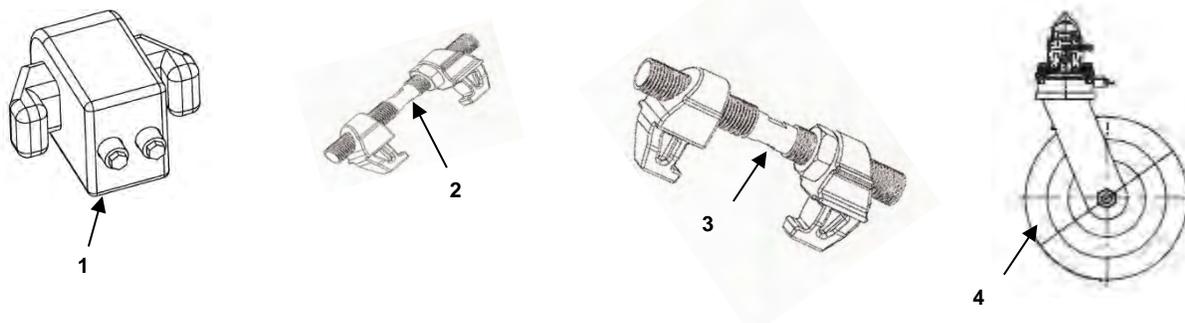
CAUTION

The Horizontal Interconnectors (1) are only used in the FPU-8-2 and the BOH-CARGO-12-1 container connection.

The Restraint Locks (2) are only used in connection of FPU-8-2 and BOH-CARGO-6 containers with loads that do not exceed 2,550 lb.

The Bridge Locks (3) are only used in connection of the FPU-8-2 and BOH-CARGO-6 Containers with loads that do not exceed 25,000 lb.

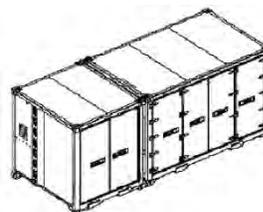
The Container Casters (4) are only used on the FPU-8-2 containers with loads that do not exceed 12,000 lb. See Appendix.



EQUIPMENT SIZE DATA

FPU-8-2/BOH-CARGO-12-1.....

Length: 20-foot (6.1m)
 Width: 8-foot (2.44m)
 Height: 92-inches (2.3m)



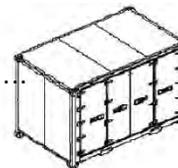
FPU-8-2.....

Length: 7-foot (2.13m)
 Width: 8-foot (2.44m)
 Height: 92-inches (2.33m)



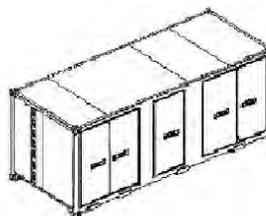
BOH-CARGO-12-1.....

Length: 12.9 foot (3.93m)
 Width: 8-foot (2.44m)
 Height: 92-inches (2.33m)



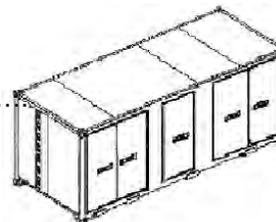
FPU-20-1.....

Length: 20-foot (6.1m)
 Width: 8-foot (2.44m)
 Height: 8-foot (2.44m)



FPU-20-2.....

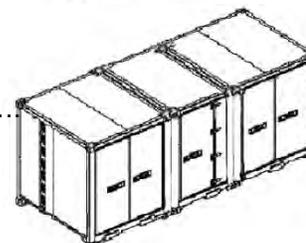
Length: 20-foot (6.1m)
 Width: 8-foot (2.44m)
 Height: 8-foot (2.44m)



Non ISO Certified Connected Combination

FPU-8-2/BOH-CARGO-6/FPU-8-2 (See Chapter 3 WP0008).....

Length: 20-foot (6.1m)
 Width: 8-foot (2.44m)
 Height: 92-inches (2.33m)



Non ISO Certified Container

BOH-CARGO-6 (See Chapter 3 WP0008).....

Length: 6-foot (1.83m)
 Width: 8-foot (2.44m)
 Height: 92-inches (2.33m)



FPU and CARGO CONTAINER WEIGHT TABLE

Container weight Limits				
Container Type	Tare Weight	Max Gross Weight	Net (Cargo) Weight	MHE Recommended
FPU-8-2	3,550	18,000	14,450	20K Forklift
BOH-CARGO-12-1	5,000	18,000	13,000	20K Forklift
FPU-8-2/BOH-CARGO-12-1 (When connected)	8,550	36,000	27,450	HEMTT-LHS, HEMTT-PLS or RTCH
FPU-20-1	12,900	52,900	40,000	HEMTT-LHS, HEMTT-PLS or RTCH
FPU-20-2	9,800	33,000	23,200	HEMTT-LHS, HEMTT-PLS or RTCH
BOH-CARGO-6	2,200	10,000	7,800	10K Forklift
End of Container Weight Limits Table				

END OF WORK PACKAGE

INTRODUCTORY INFORMATION WITH THEORY OF OPERATION

**FPU® SYSTEMS OPERATION MANUAL
(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
FPU/BOH CARGO CONTAINERS MODELS
FPU-8-2, BOH-CARGO-12-1, BOH-CARGO-6 & FPU-20-1 & FPU-20-2
BOH FPU Field Pack-up Units**

EQUIPMENT DATA LABELS, IDENTIFICATIONS, MARKINGS AND AIRLIFT CERTIFICATION

**FPU-8 Container
(FPU 8-2)**

Certified by U.S. Air Force for transport on C-130, C-5 and C-17 aircraft (18 July 2001)


DEPARTMENT OF THE AIR FORCE

HEADQUARTERS AERONAUTICAL SYSTEMS CENTER (AFMC)
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

MEMORANDUM FOR Defense Industrial Supply Center
Attn: Maureen Leiter
700 Robbins Ave. Bldg 3 Section A
Philadelphia PA 19111

18 July 2001

FROM: ASC/ENFC (ATTLA)
2530 Loop Road West
Wright Patterson AFB, OH 45433-7101

SUBJECT: Air Transport Certification of BOH Environmental Field Pack-up Units (FPU-8 Series)

1. The subject Field Pack-up Units, FPU-8-1 and FPU-8-2, are steel containers measuring 84" L x 96" W x 92" H. The container has recessed pocket doors along its length and has ISO corner fittings on all eight corners. Up to four specialized storage/shipping modules may be mounted inside each FPU.
2. The above subject FPU-8-1 and FPU-8-2 are herewith approved for air transport aboard USAF C-130, C-141, C-5, and C-17 aircraft with the following provisions.
 - a. Maximum container weight shall not exceed 18,000 lbs. The specialized modules should not exceed 2,000 lbs each. Payload within the container may be in the modules or attached to the tie-down rings on the container floor.
 - b. The container shall be carried on a standard 483L HCU-6/E cargo pallet. Shoring at least 3/4" thick shall be placed between the container bottom and the pallet upper surface to distribute the load on the pallet and avoid point loading contact by the corner fittings or any projecting edge members. Shoring area requirements will vary with container weight and type of transport aircraft. For the maximum weight container, the shoring area shall equal the area of the container bottom.
 - c. The container shall be restrained to 3 G fwd, 2 G up, and 1.5 G aft & lateral using chains through the corner fittings. If the container weight exceeds 13,000 lbs, the container will require additional restraint directly to the aircraft floor after it is loaded onto the aircraft. The shipper shall certify that the cargo within the container is capable of withstanding these forces in addition to a potential 4.5 G download. The shipper shall also certify that the cargo within the container can withstand a potential in-flight rapid decompression of up to 8.3 psi within 1/2 second without endangering the aircraft or personnel in the cargo compartment. The container doors may be open during flight.
 - d. Any hazardous materials must be prepared and certified for airlift in accordance with AFJMAN 24-204/TM 38-250. This memo is not to be considered an approval for shipping hazardous materials, which must be granted separately. The servicing aerial port can assist in this regard.
3. A copy of this certification should accompany the containers when processed for air shipment.
4. The point of contact (refer to file 2001.06.11) is the undersigned at DSN 785-2330 or 937-255-2330. Additional POCs are Mark Kuntavanish at 56039, or Caroline Buckley at 59647.

JAMES E. LEGER
Aerial Delivery Group

cc:
HQ AMC/DOV
USA MTMC/TEA

FPU Flammable/Corrosive (HAZMAT) Module

Certified for air transport aboard C-130, C-5 and C-17 aircraft INSIDE of FPU 8 Series Container
(11 October 2001)



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS AERONAUTICAL SYSTEMS CENTER (AFMC)
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

11 Oct 2001

MEMORANDUM FOR Defense Industrial Supply Center
Attn: Maureen Leiter
700 Robbins Ave Bldg 3 Section A
Philadelphia PA 19111

FROM: ASC/ENFC (ATLA)
2530 Loop Road West
Wright Patterson AFB, OH 45433-7101

SUBJECT: Air Transport Certification of BOH Environmental Flam Locker/Module for Field Pack-up Unit

1. References:
 - a. BOH Memo with Attachments, 10 Sep 2001, Request for approval of Hazmat Module FM1A
 - b. ASC/ENFC Memo, 12 July 2001, Airlift Certification of BOH FPU-8 Series containers.
2. The BOH Environmental LLC Flammable / Corrosive "Hazmat" Module Model FM1A (NSN 8145-01-473-1288) as contained in reference 1.a above is 74" high, 34 3/8" wide, and 42" deep. This item is herewith approved for air transport aboard USAF C-130, C-141, C-5, and C-17 aircraft with the following provisions.
 - a. Loaded weight shall not exceed 2000 lbs per module. Prior to loading, modules should be inspected to assure that internal structure and locking mechanisms are structurally sound and that restraining bars are inserted to secure the drawers. Individual modules shall only be transported inside the FPU containers and must be secured via the locking system therein.
 - b. Up to four modules may be mounted in each FPU-8 container. Air transport of the loaded FPU container shall comply with reference 1.b above.
 - c. Preparation and packaging of hazardous materials within the modules shall comply with AFJMAN 24-204/TM 38-250/NAVSUP PUB 505. Secondary static grounds should be used where required. This memo is not to be considered an approval for shipping hazardous materials, which must be granted separately. The servicing aerial port can assist in this regard.
3. A copy of this certification should accompany the modules when processed for air shipment.
4. The point of contact (refer to file 2001.09.17) is the undersigned at D SN 785-2330 or 937-255-2330. Additional POCs are Mark Kurtavanish at 56039, or Caroline Buckley at 59647.


JAMES E. LEGER
Aerial Delivery Group

cc:
HQ AMC/DOV
USA MTMC/TEA

FPU Flammable/Corrosive (HAZMAT) Module

Certified for air transport aboard C-130, C-5 and C-17 aircraft OUTSIDE of FPU 8 Series Container (6 August 2002).



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS AERONAUTICAL SYSTEMS CENTER (AFMC)
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

FOR: Defense Industrial Supply Center
Attn: Maureen Leiter
700 Robbins Ave Bldg 3 Section A
Philadelphia PA 19111

6 Aug 02

FROM: ASC/ENFC (ATTLA)
2530 Loop Road West
Wright Patterson AFB, OH 45433-7101

SUBJECT: Air Transport Certification of BOH Environmental, LLC Flammable/Corrosive Module
NSN 8145-01-473-1288 shipped without Field Pack-up Unit outer container

1. References:
 - a. ASC/ENFC Memo, 18 Jul 2001, Airlift Certification of BOH FPU-8 Series Containers
 - b. ASC/ENFC Memo, 11 Oct 01, Air Transport Certification of BOH Environmental Flam Locker/Module for Field Pack-up Unit
2. The BOH Environmental, LLC Flammable/Corrosive Module without the Field Pack-Up Unit Outer Container, NSN 8145-01-473-1288, measures 74" high, 34 3/8" wide, and 42" deep. This item, as configured, is approved for air transport aboard USAF C-130, C-141, C-5, and C-17 aircraft with the following provisions.
 - a. Loaded weight shall not exceed 2000 pounds per module. Prior to loading, modules should be inspected to assure that internal structure and locking mechanisms are structurally sound and that restraining bars are inserted to secure the drawers.
 - b. The LLC Flammable/Corrosive Module shall be placed on a 463L pallet. A maximum of 4 modules shall be placed on one 463L pallet. Load spreading shoring shall be used, as needed, for proper roller-load weight distribution and to prevent exceeding the 250-psi pallet limit.
 - c. The LLC Flammable/Corrosive Module and any stowed items shall be restrained following standard procedures to meet the minimum restraint requirements of 3.0G fwd, 2.0G vertically, and 1.5G aft and laterally in addition to a potential 4.5G download force. A strap bridle shall be used to secure the module and its contents on a 463L pallet.
 - d. The shipper shall certify that the cargo within the container can withstand a potential in-flight rapid decompression of up to 8.3 psi with 1/2 second without endangering the aircraft or personnel in the cargo compartment.
 - e. Preparation and packaging of hazardous materials within the modules shall comply with AFMAN 24-2041. Secondary static grounds should be used where required. This memo is not considered an approval for shipping hazardous materials, which must be granted separately. The servicing aerial port can assist you in this regard.
3. A copy of this certification shall accompany the item during air shipment.
4. The air transportability engineer for this project is the undersigned at DSN 785-9647 or (937) 255-9647. The email address is caroline.buckey@wpafb.af.mil. Please refer to project file 2001.09.17.

Caroline J. Buckey

cc:
LCDR Wm. Johnson MSC, USN
Plans and Operations,
Naval Environmental Health Center
AMC/DOV

CAROLINE J. BUCKEY
Aerial Delivery Group
Crew Systems Branch

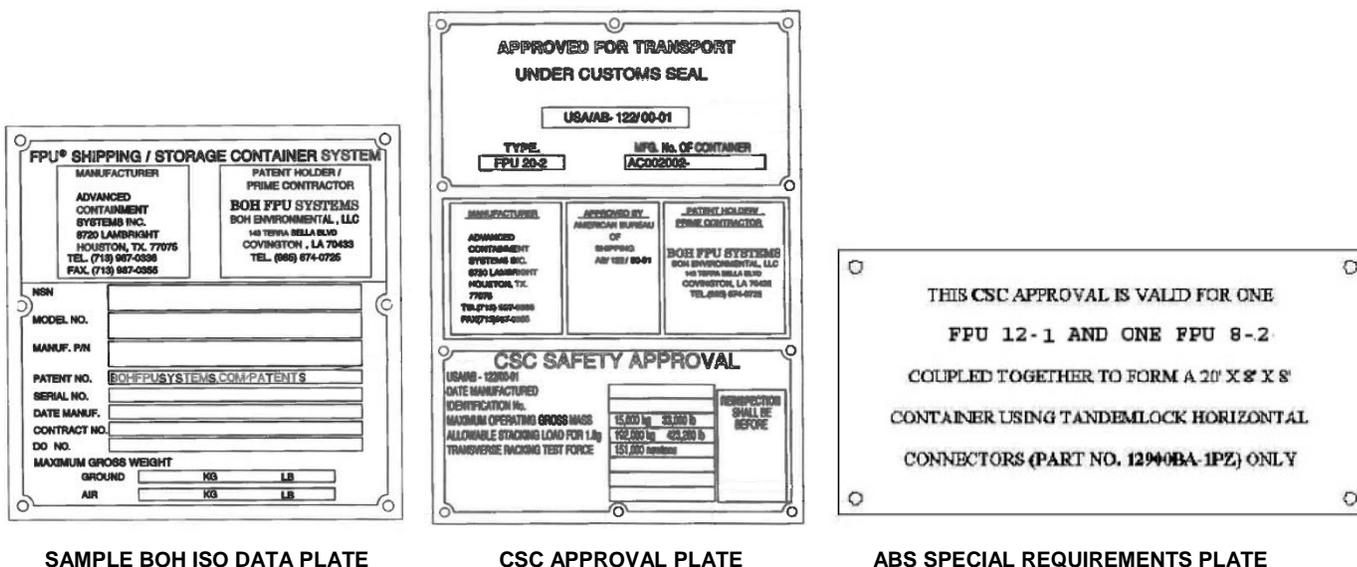
Internal Air Transport Certification for 20-ft containers

FPU-20-2 containers are approved for air transport aboard C-130, C-17 and C-5 USAF aircraft as "20-foot ISO Containers certified by the Convention for Safe Containers (CSC)". See Internal Air Transport Certification issued by ATTLA dated 29 June 2016 (file number 2008.09.15 Rev 6).

FPU Manufacturers Data Plates & Markings

BOH FPU CARGO CONTAINER and CSC Data Plates

The BOH ISO data plates are affixed to the right-hand doors of each container, below the door handles. This plate identifies information required for transport aboard ship. The ABS data plate is located adjacent the ISO data plate. This plate identifies special requirements information for use during transport aboard ship.



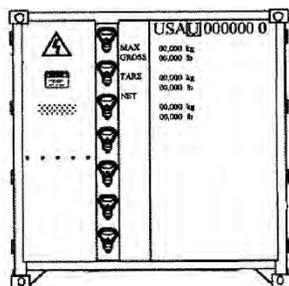
The BOH FPU-8-2/BOH-CARGO-12-1, FPU-20-1 & FPU-20-2 container systems are approved for transport as 20-foot ISO (Type 1C) containers. Also the BOH FPU-8-2 and the BOH-CARGO-12-1 are approved independently when they are disconnected from each other. The BOH FPU-8-2/BOH-CARGO-12-1 containers must be connected to transport by commercial and MSC container ships. For their approval to be valid, the following requirements must be met:

1. Certified/tagged FPU's must be matched only. See the CSC Approval Plate on a certified FPU USA/174-AB/03-01 series container.
2. Individual FPUs must have a current CSC certification (shown on the CSC Approval Plate).

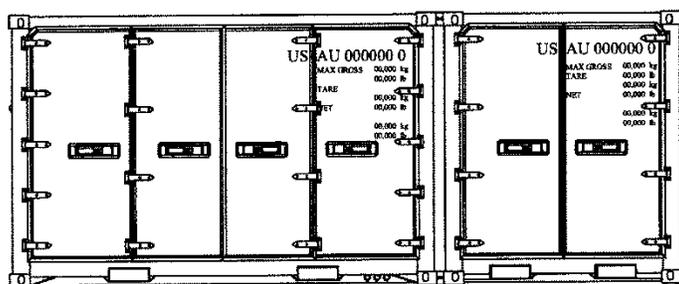
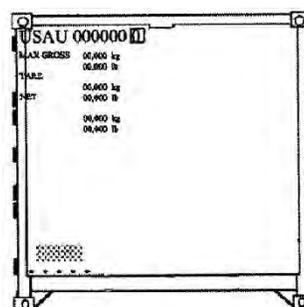
These certifications do not supersede military policies by MTMC in the shipment of serialized containers of matched sets.

FPU data plates identify the manufacturer's part number, serialization, contract and delivery order number and National Stock Number (NSN). They are located visibly at the exterior rear end of each container. Each container has a FPU data plate unique to itself.

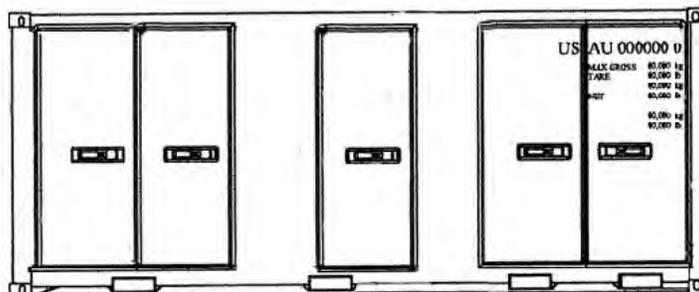
SIGNAGE FPU-8-2, FPU-20-1 & FPU-20-2 STEP END



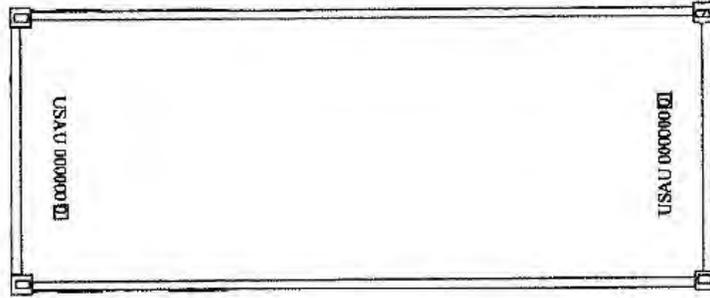
SIGNAGE BOH-CARGO-12-1 END



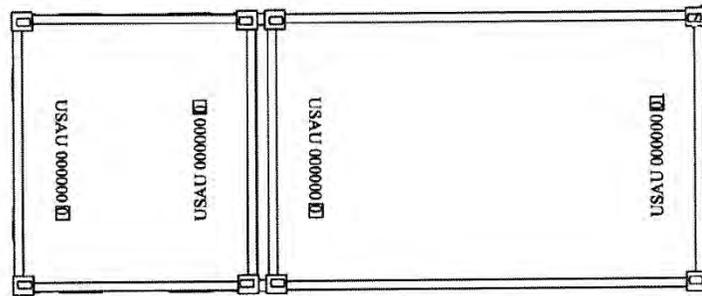
SIGNAGE FPU-8-2/BOH-CARGO-12-1 FRONT AND BACK



SIGNAGE FPU-20-1 & FPU-20-2 FRONT AND BACK



TOP VIEW OF SIGNAGE FPU-20-1 & 2



TOP VIEW OF SIGNAGE FPU-8-2/BOH-CARGO-12-1

BOH FPU CARGO CONTAINER containers have a series of markings that provide information and identification, for shipping containers, when transported aboard ships.

END OF WORK PACKAGE