GTA Containers, LLC

ADVANCED AVIATION FORWARD AREA REFUELING SYSTEM (AAFARS)

Refueling with the tactical advantage.

The Advanced Aviation Forward Area Refueling System (AAFARS) is a modular, lightweight, portable combat refueling system designed for rapid refueling of forward-area military aircraft in support of deep strikes. The system was designed and developed by GTA Containers to U.S. Army specifications and requirements.

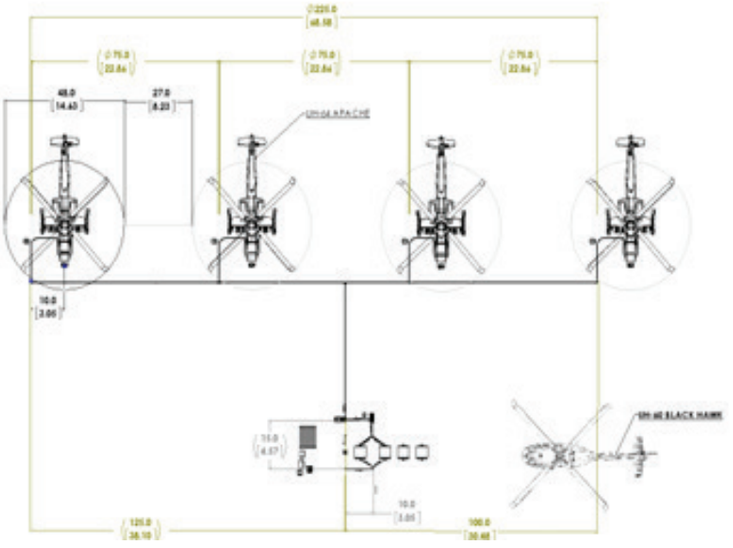
AAFARS has a 240-gallon-per-minute pump that provides fuel to four fueling points at a rate of 55 GPM minimum at each point.

AAFARS offers significant tactical advantage with its small size, light weight, high reliability, low noise, and ease of use. This rugged system is helicopter-transportable and soldier-portable. Assembly in 20 minutes and tear-down in 30 minutes have been demonstrated in the field.

AAFARS' key advantage is the ability to be flown in under a transport helicopter. D-1, CCR, and Gravity nozzles are provided for refueling of practically any aircraft or ground vehicle. Other key features include multiple fuel capability that allows it to run on the same fuel as is being delivered to the aircraft or vehicle, and electric start capability with manual pull start back-up. The recirculation feature incorporates a pressure control valve to mitigate shock when nozzles are closed.

AAFARS features:

- NSN 4930-01-495-0024/GTA-FARE-01
- Modular, man-portable 4-point refueling system, CCR, D-1 and gravity nozzles
- Rapid, dependable combat refueling (55+ GPM per station)
- Lightweight, small size, helicopter-transportable, air-droppable
- Optional unisex dry-break couplings to make AAFARS environmentally friendly. Drums transported with supplied sling.
- Complete system may be sling loaded inside the single Bi-con container.



FOR MORE INFORMATION, CONTACT:
GTA Containers LLC.
4201 Linden Ave
South Bend IN. 46619 USA
Phone: +1 (574)-288-3459
Fax: +1 (574)-288-1997
Website: www.gtacontainers.com
E-mail: sales@gtacontainers.com

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ADVANCED AVIATION FORWARD AREA REFUELING SYSTEM (AAFARS)

AAFARS Performance Overview

Performance Parameters	Specifications
Rated flow	55 GPM min. @ 4 points simultaneously
Pump	240 GPM max., self-priming, centrifugal.
Recirculation	Cleans fuel that can be inspected prior to dispensing.
Filtration	Meets API 1581 requirements @ 300 GPM
Coalescers	Meets API 1581 requirements @ 300 GPM
Engine	17 HP, air cooled, 2-cylinder diesel
Starter system	28 VDC electric start w/manual back-up
Fuels	JP-5, JP-8 and diesel.
Noise output	Hearing protection required (85dBa @ 30ft.)
Fire extinguishers	Qty (5), 20 lbs. dry chemical
Standards	MOD DEF STD 17-11/5.1.2 and ATPD-2294

Interfaces

- Hose couplings: 2", 3" and 4"
- Fuel source: requires qty (2), 500 USG connected
- Fuel bladders IAW ATPD 2295 Class II, Type III
- Nozzles: qty 4 each D-1, CCR and over-wing type

Qualification

- Operating temperature: -25˚F to +120˚F
- Storage temperature: -28˚F to +160˚F
- Low Velocity Air Drop (LVAD), Helicopter Sling Load (HSL)
- Fuel Filtration EI-1581 6th Edition

Size and weight

- Pump module	28.00"H x 36.25"W x 45.50"L	182 lbs.
- Battery module	13.15"H x 15.00" W x 19.21"L	72 lbs.
- Filter separator	24.00"H x 20.00"W x 55.00"L	173 lbs.
- Defuel Pump	7.62"H x 20.50"W x 18.00"L	18 lbs.
- System Bi-con	96.00"H x 96.00"W x 117.75"L	6750 lbs. (complete system)

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