



# AEF AVON

A Performance Inflatables Company

**Leading the Industry in Extreme  
Performance Inflatables since 1985**

**2021**



# AEF AVON

A Performance Inflatables Company

## Who We Are

Avon Engineered Fabrications, LLC (AEF) is the world's foremost producer of high-quality products made utilizing industrial coated fabrics that meet military and industrial requirements worldwide. AEF is an ISO:9001-2015 certified company committed to delivering quality products through continuous innovation and improvements that have led to the development of proprietary designs which enhance the overall performance of our collapsible storage tanks. AEF offers various products including collapsible fabric tanks (CFTs) designed for containing various liquids, hovercraft skirt assemblies, and aircraft lift bags.

## Industrial coated fabrics

AEF uses industrial-coated fabrics in all of its products. We use high-strength and heavy-duty synthetic fabrics coated with natural rubber, neoprene, thermoplastic polyurethane, nitrile, or Hypalon. Our collapsible fabric tanks are highly puncture and abrasion-resistant. The coated fabrics allow for longer service life and require minimal maintenance. All of AEF's products are designed to perform in harsh and hostile environments and can withstand temperatures ranging from  $-25^{\circ}\text{F}$  to  $160^{\circ}\text{F}$ . With the large selection of exclusive industrial coatings, customers can count on our products to get the job done.

## We offer customization

AEF has a long history of consistently providing products that satisfy customer's demands. With our in-house engineering and design capabilities, AEF can offer a variety of innovative solutions to meet your challenges, including custom products for specialized applications and custom turnkey solutions that will fit customer needs.



AEF pioneered the production of hovercraft skirts made from natural rubber neoprene.



All AEF products are made in the United States and are tested prior to shipping.



AEF's pioneered joining technique eliminates leak paths and creates a stronger and more durable seam.



Management System  
ISO 9001:2015



www.tuv.com  
ID 9108650777



AEF headquarters and state of the art manufacturing facility is located in Picayune, Mississippi, USA



Get in touch

+1 (601) 889-9050

113 Street A Picayune MS 39466

Sales@aef-performance.com






# AEF AVON

A Performance Inflatables Company

Collapsible TPU Fuel Tank	5
Collapsible Nitrile Fuel Tank	6
Collapsible TPU Water Tank	7
Onion Tank	8
FlexSS	9
Secondary Containment	10
Oasis Liquid Distribution Tank	12
Tank in a Can	13
Power Auxiliary Kit	14
Modular Work Platform	16
Accessories	17

**Trusted By**

## Follow Us



[aef-performance.com](http://aef-performance.com)



@AEF\_IIc



@AEF IIc



# AEF AVON

A Performance Inflatables Company

## Why Choose AEF?

Our products are proudly made in the USA by skilled craftsmen. Every product is manufactured with high-quality industrial coated fabrics that are lightweight with high puncture and abrasion resistance. Every product is tested prior to shipping to ensure that all relevant standards are met. All AEF products can be customized to address special needs. We offer custom turnkey solutions for any situation. AEF maintains a large inventory of materials allowing prompt delivery while enabling cost savings to be passed along to our customers.

For over 30 years, AEF has specialized in the manufacturing of large industrial products for both military and commercial consumers. AEF pioneered the production of hovercraft skirts used for air cushion vehicles (ACV) such as the Navy's LCAC (\*front cover photo). These skirts are produced utilizing industrial coated fabrics consisting of natural rubber and neoprene coated nylon.



Management System  
ISO 9001:2015

www.tuv.com  
ID 9108650777





# AEFAVON



A Performance Inflatables Company

## Collapsible Fabric Tanks

Avon Engineered Fabrications, LLC offers a variety of collapsible fabric tank (CFT) designs for containing various liquids. In-house engineering and design capabilities allow AEF's collapsible tanks to be customizable based on customer requirements. The two basic types of collapsible fabric tanks offered are fuel and water. With rapid emplacement capabilities, AEF's fuel tanks are perfect for storing gasoline, kerosene, sludge, and diesel, where it is difficult, time-consuming, and expensive to set up a fuel depot. AEF's water tanks are perfect for storing wastewater, potable water, fruit juices, and food-grade oils regardless of location. Compared to rigid containers, fabric tanks are low maintenance, non-rusting, and utilize minimal warehouse space. Additionally, the cost of a collapsible tank is more economical when compared to a rigid tank.

**Accessories can be customized and adjusted per customer requirements**

### Fuel Tanks



### Water Tanks



AEF highly recommends secondary containment to be used with all fuel tanks.  
AEF can provide customized berm liners to meet all applications.



Management System  
ISO 9001:2015

www.tuv.com  
ID 9108650777





# Collapsible TPU Fuel Tanks



## Benefits

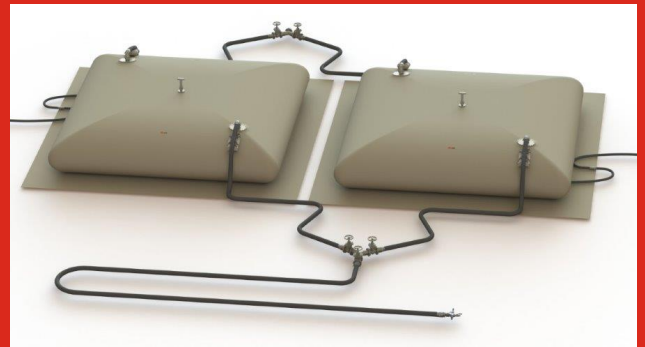
- Easily stored and transported / economical shipping
  - Can be placed in areas with limited space
  - Easy set up/tear down with limited personnel
- Closed flexible system takes the shape of the liquid's volume and does not rust or create any air space
- Designed to operate in various climate conditions
- Withstand temperature ranging from -25°F to 160°F

## Information and Sizes

- Storage capacity: 1000 Gal to 300,000 Gal
- Shelf life of 10 years
- Expected service life of up to 3 years
- Tank can be relocated during service life
- Fabric:
  - Urethane-coated nylon - high strength and heavy duty
  - Puncture and abrasion resistance
  - UV Resistance (Desert Proven)
  - Thermally welded seams

## Ideal for

- Industrial site temporary fuel storage
- Emergency and disaster response
- Military operations
- Remote locations
- Fuel Farms



Fuel tanks can be utilized as a Power Unit Auxiliary Kit, a custom TurnKey solution, to provide extended run time for already existing power generators

## Application

- Gasoline (short term)
- Jet Fuel (JP)
- Heavy Fuel
- Kerosene
- Sludge/Bunker Fuel
- Diesel

Technical Information

Sizes	Footprint Dimensions Length x Width	Packaged Dimensions (Crates) Length x Width x Height	Dry Weight	Fill/Discharge Fittings			Drain Fittings
				2"	4"	6"	2"
1K	96in x 130in/2.44m x 3.30m	96in x 48in x 24in/2.44m x 1.22m x 0.61m	95 lbs	1			
3K	174in x 163in/4.42m x 4.14m	96in x 48in x 48in/2.44m x 1.22m x 1.22m	160 lbs	1			1
5K	192in x 195in/4.88m x 4.95m	96in x 60in x 48in/2.44m x 1.52m x 1.22m	195 lbs	1	1		1
10K	264in x 260in/6.71m x 6.60m	120in x 60in x 48in/3.05m x 1.52m x 1.22m	340 lbs	1	1		2
20K	334in x 325in/8.48m x 8.26m	125in x 60in x 48in/3.18m x 1.52m x 1.22m	500 lbs		2		2
50K	522in x 455in/13.26m x 11.56m	144in x 60in x 48in/3.66m x 1.52m x 1.22m	1,000 lbs		2		2
100K	626in x 650in/15.85m x 16.51m	144in x 96in x 48in/3.66m x 2.44m x 1.22m	1,710 lbs			4	4
150K	756in x 780in/19.20m x 19.81m	192in x 84in x 60in/4.88m x 2.13m x 1.52m	2,420 lbs			4	4
210K	888in x 910in/22.56m x 23.11m	192in x 84in x 60in/4.88m x 2.13m x 1.52m	3,245 lbs			4	4
300K	1086in x 1040in/27.56m x 26.42m	192in x 84in x 60in/4.88m x 2.13m x 1.52m	4,460 lbs			4	4



## Benefits

- Oil Resistance
- Easily stored and transported/economical shipping
- Can be placed in areas with limited space
- Easy set up/tear down with limited personnel
- Closed flexible system takes the shape of the liquid's volume and does not rust or create ullage
- Durable and reliable
- Withstand temperatures ranging from -25°F to 160°F
- Custom manufacturing on request

## Information and Sizes

- Storage capacity: 1,000 Gal to 300,000 Gal
- Shelf life of 10 years
- Expected service life of 5+ years
- Tank can be relocated during service life
- Fabric: Nitrile-coated nylon - high strength and heavy duty
  - Vulcanized seams
  - Superior puncture and abrasion resistance
  - UV Resistance (Desert Proven)



AEF highly recommends a secondary containment for all fuel tanks for added protection. AEF can provide customized berm liners to meet customer applications.

## Application

- Transformer Oil (petro based)
- Gasoline (Non-Ethanol)
- Tannic Acid
- Heavy Fuel
- White Oil
- Kerosene
- Fertilizer
- Alcohol
- Glycols
- Sugar
- Syrup
- Ethyl

### Technical Information

Sizes	Footprint Dimensions	Packaged Dimensions (crates)	Dry Weight	Fill/discharge Fittings		Drain Fitting
	Width x Length			2"	4"	2"
1K	96in x 130in/2.44m x 3.30m	96in x 48in x 24in/2.44m x 1.22m x 0.61m	95 lbs	1		
3K	174in x 163in/4.42m x 4.14m	96in x 48in x 48in/2.44m x 1.22m x 1.22m	160 lbs	1		
5K	192in x 195in/4.88m x 4.95m	96in x 60in x 48in/2.44m x 1.52m x 1.22m	195 lbs	1	1	1
10K	264in x 260in/6.71m x 6.60m	120in x 60in x 48in/3.05m x 1.52m x 1.22m	340 lbs	1	1	2
20K	334in x 325in/8.48m x 8.26m	125in x 60in x 48in/3.18m x 1.52m x 1.22m	500 lbs		2	2
50K	522in x 455in/13.26m x 11.56m	144in x 60in x 48in/3.66m x 1.52m x 1.22m	1,000 lbs		2	2



## Benefits

- Potable water tanks are FDA compliant and can be NSF-61 certified upon request
- Easily stored and transported / economical shipping
  - Can be placed in areas with limited space
  - Easy installation by unrolling and unfolding with limited personnel
- Withstand temperatures ranging from -25°F to 160°F
- Designed to operate in various climates and conditions
- Closed flexible system takes the shape of the liquid's volume and does not create any air space.

## Ideal For

- Industrial site temporary water storage
- Emergency and disaster response
- Water treatment facilities
- Rain water harvesting
- Military operations
- Remote locations
- Mining operations
- Firefighting
- Agriculture



## Information and Sizes

- Storage capacity: 1,000 Gal to 300,000 Gal
- Thermally welded seams
- Expected service life of up to 3 years
- Shelf life of 10 years
- Tank can be relocated during service life
- Fabric:
  - Urethane-coated nylon – high strength and heavy duty
  - Puncture and abrasion resistance
  - High UV Resistance (Desert Proven)
  - Innovative encapsulated edge technology
  - Wide range of weights and colors available

## Applications

- Food grade oils
- Potable water
- Waste water
- Black Water
- Gray Water
- Frac Water
- Fruit juices

Technical Information

Sizes	Footprint Dimensions Length x Width	Packaged Dimensions (Crates) Length x Width x Height	Dry Weight	Fill/Discharge Fittings			Drain Fittings
				2"	4"	6"	2"
1K	96in x 130in/2.44m x 3.30m	96in x 48in x 24in/2.44m x 1.22m x 0.61m	95 lbs	1			
3K	174in x 163in/4.42m x 4.14m	96in x 48in x 48in/2.44m x 1.22m x 1.22m	160 lbs	1			1
5K	192in x 195in/4.88m x 4.95m	96in x 60in x 48in/2.44m x 1.52m x 1.22m	195 lbs	1	1		1
10K	264in x 260in/6.71m x 6.60m	120in x 60in x 48in/3.05m x 1.52m x 1.22m	340 lbs	1	1		2
20K	334in x 325in/8.48m x 8.26m	125in x 60in x 48in/3.18m x 1.52m x 1.22m	500 lbs		2		2
50K	522in x 455in/13.26m x 11.56m	144in x 60in x 48in/3.66m x 1.52m x 1.22m	1,000 lbs		2		2
100K	626in x 650in/15.85m x 16.51m	144in x 96in x 48in/3.66m x 2.44m x 1.22m	1,710 lbs			4	4
150K	756in x 780in/19.20m x 19.81m	192in x 84in x 60in/4.88m x 2.13m x 1.52m	2,420 lbs			4	4
210K	888in x 910in/22.56m x 23.11m	192in x 84in x 60in/4.88m x 2.13m x 1.52m	3,245 lbs			4	4
300K	1086in x 1040in/27.56m x 26.42m	192in x 84in x 60in/4.88m x 2.13m x 1.52m	4,460 lbs			4	4





# AEF AVON

A Performance Inflatables Company

# Onion Tank

## READY FOR DISASTER RELIEF

### Benefits

- Meets NSF/ANSI Standard 61 for potable water use
- FDA compliant
- Easy installation with limited personnel
- Designed to operate in various climate and conditions
- Limited space needed
  - Can be used in remote locations
- Easily stored and transported / economical shipping
- Self-supporting on slopes up to 10%
- Withstand temperatures ranging from -25°F to 160°F

### Ideal For

- Industrial Site Temporary Water Storage
- Emergency and Disaster Relief Efforts
- Rain water harvesting
- Military Operations
- Water recovery
- Remote Areas
- Firefighting



**CUSTOM SIZES  
AVAILABLE UPON  
REQUEST.**



AEF onion tanks deployed after Hurricane Katrina

### Technical Information

- Storage Capacity: Up to 5,000 Gal
- Thermally welded seams
- Low maintenance required
- Easy to clean
- Expected service life of up to 3 years
- Shelf life of 10 years
- Tank can be relocated during service life
- Fabric:
  - Urethane-coated nylon - high strength and heavy duty
  - Puncture and abrasion resistance
  - High UV Resistance (Desert Proven)
  - Innovative encapsulated edge technology
  - Wide range of weights and colors

### Applications

- Potable water
- Waste water
- Black Water
- Gray Water
- Frac Water



FLEXSS is a newly developed fluid storage system that offers innovative technological advances for the international petroleum industry with breakthroughs in water management, operational advantages, and competitive costing.

The tank offers multiple applications for petroleum refineries and chemical plants that need a storage solution for containing slop water with chemical impurities. They provide portability and efficient limited space advantages over existing maintenance practices.



FlexSS being used to contain slop water at Southton Railyard in San Antonio, Texas



### Benefits

- Easily stored and transported / economical shipping
- Suitable for gray water, black water, and a wide range of chemical solutions
- Capable of replacing slow and expensive tank truck operations
- Can be placed in areas with limited space
- Open top system takes the shape of the liquid's volume
- Easy installation by unrolling and unfolding with limited personnel
- Custom manufacturing available upon request
- Withstand temperatures ranging from -25°F to 160°F
- Designed to operate in various climates and conditions

### Information and Sizes

- Storage capacity: up to 210,000 Gal
- Thermally welded seams
- Expected service life of up to 3 years
- Shelf life of 10 years
- Tank can be relocated during service life.
- Fabric:
  - Urethane-coated nylon - high strengths and heavy duty
  - Puncture and abrasion resistant
  - High UV Resistance (Desert Proven)
- Innovative encapsulated edge technology
- Wide range of weights and colors available

### Applications

- Industrial site temporary water storage
- Emergency and disaster response
- Oil spill clean-up operations
- Petroleum refineries
- Mining operations
- Remote locations



# Secondary Containment

## Benefits

- Fits easily under tanks, tents, and above ground pools
- Easily stored and transported / economical shipping
- Cost effective
- Provides EPA & SPCC regulations compliance
- Creates a first layer of defense
- Protects tanks from ground moisture, soiling, and wear
- Extends the longevity of tank
- Light weight and easy set up



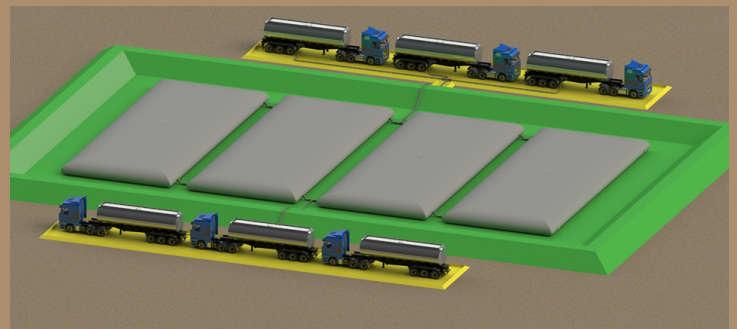
Berm Liner Technical Information			
Sizes	Footprint Dimensions		Drain
	Length x Width		
1K	372in x 405.25in/9.45m x 10.29m		1
3K	444in x 443.25in/11.28m x 11.26m		1
5K	480in x 479.5in/12.19m x 12.18m		1
10K	630in x 628in/16.00m x 15.95m		2
20K	780in x 776.5in/19.81m x 19.72m		2
50K	942in x 888.75in/23.93m x 22.57m		2
100K	1104in x 1185.75in/28.06m x 30.12m		2
150K	1248in x 1260in/31.70m x 32.00m		2
210K	1368in x 1408.5in/34.75m x 35.78m		2
300K	1566in x 1557in/39.78m x 39.55m		2

## Technical Information

- Designed to hold 1.5x main storage capacity of primary containers
- Size Range: 500 Gal - 300K Gal
- Withstand temperatures ranging from -25°F to 160°F
- Color: Desert Tan (other colors available)
- Can be made to commercial or military specification

## Ideal For

- Emergency and disaster response
- Military and mining operations
- Remote locations
- Fuel farms





# AEFAVON

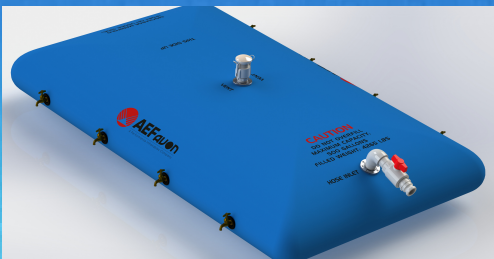


A Performance Inflatables Company

## Custom Turnkey Solutions

Avon Engineered Fabrications LLC offers a variety of custom turnkey solutions that work to fulfill customer needs. These stand-alone units can be placed in any location for various situations requiring a temporary water or fuel source. The Oasis LDU is an ideal solution for providing a temporary clean water source, while the Tank in a Can LDU is the perfect solution for a fuel source regardless of the location. The Power Auxiliary Kit offers a continuous fuel source to power generators during power outages. Each custom turnkey solution comes equipped with a collapsible fabric tank. These tanks have the ability to operate in various climates and conditions with easy installation in areas with limited space.

**Accessories can be customized and adjusted per customer requirements**



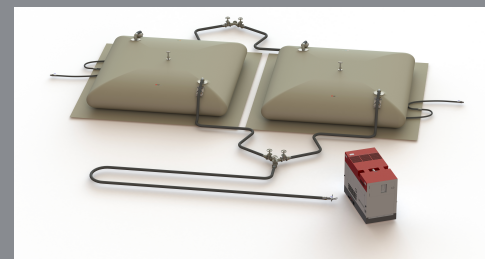
Oasis LDU serves as a temporary water source in times of crisis and is FDA compliant

## Tank in a Can



Tank in a Can is a unique, self containing liquid storage and dispensing system that can be easily transported to any location.

## Power Auxiliary Kit



The power auxiliary kit provides a continuous fuel source that can power generators during power outages.



Management System  
ISO 9001:2015



www.tuv.com  
ID 9108650777



**AEF**AVON  
A Performance Inflatables Company



**asis**

## Liquid Distribution Unit (LDU)

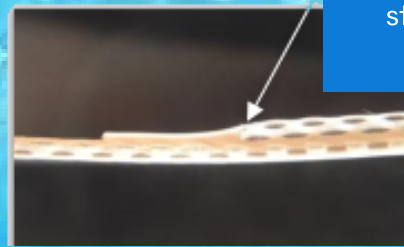
The **Oasis Liquid Distribution Unit (LDU)** is designed to provide an economical stationary storage solution for portable water. These tanks can hold up to 500 gallons and can limit the amount of water being wasted. It can be transported directly to communities to provide convenient access to potable water to multiple users. The distribution tank has both chemically and mechanically bonded fittings and can be equipped with up to 8 spigots to allow the efficient distribution of water to residents, thus shortening queuing time.

### Technical Information

- Storage capacity: 500 Gal
- Thermally welded seams
- Fabric
  - Urethane-coated nylon - high strength and heavy duty
  - Puncture and abrasion resistance
  - High UV Resistance (Desert Proven)
  - Innovative encapsulated edge technology
- Shelf life of 10 years
- Tank can be relocated during service life

### Ideal For

- Emergency municipal water supply
- Disaster relief
- Temporary water storage
- Water distribution



AEF's pioneered joining technique eliminates leak paths and creates a stronger and more durable seam



Units deployed for use by the Los Angeles Department of Water and Power (LADWP) to provide potable drinking water to its residents during an outage.





# AEFAVON

A Performance Inflatables Company

The **Tank in a can** is a unique, self-containing liquid storage and dispensing system that can be easily transported to any location. It can be used as a temporary fuel storage system and is an ideal solution for supplying fuel to machinery and heavy equipment that would normally require additional logistics. A separate storage container is not required as the system is provided with all the components securely stored in the drum.

## Information and Sizes

- Storage capacity: up to 1,000 Gallons
- Limited storage space
- Stand-alone system
- Minimal operations
- Rapid deployment
- Shelf life of 10 years
- Expected service life of up to 3 years
- All components stored in 55 gallon drum

## Ideal for

- Industrial site temporary fuel storage
- Emergency and disaster response
- Military operations
- Remote locations
- Instant fuel supply



# Tank in a Can

## Remote Liquid Dispensing Unit



## Application

- Gasoline (short term)
- Heavy Fuel
- Beverages
- Kerosene
- JP Fuel
- Sludge
- Diesel
- Water
- Paint

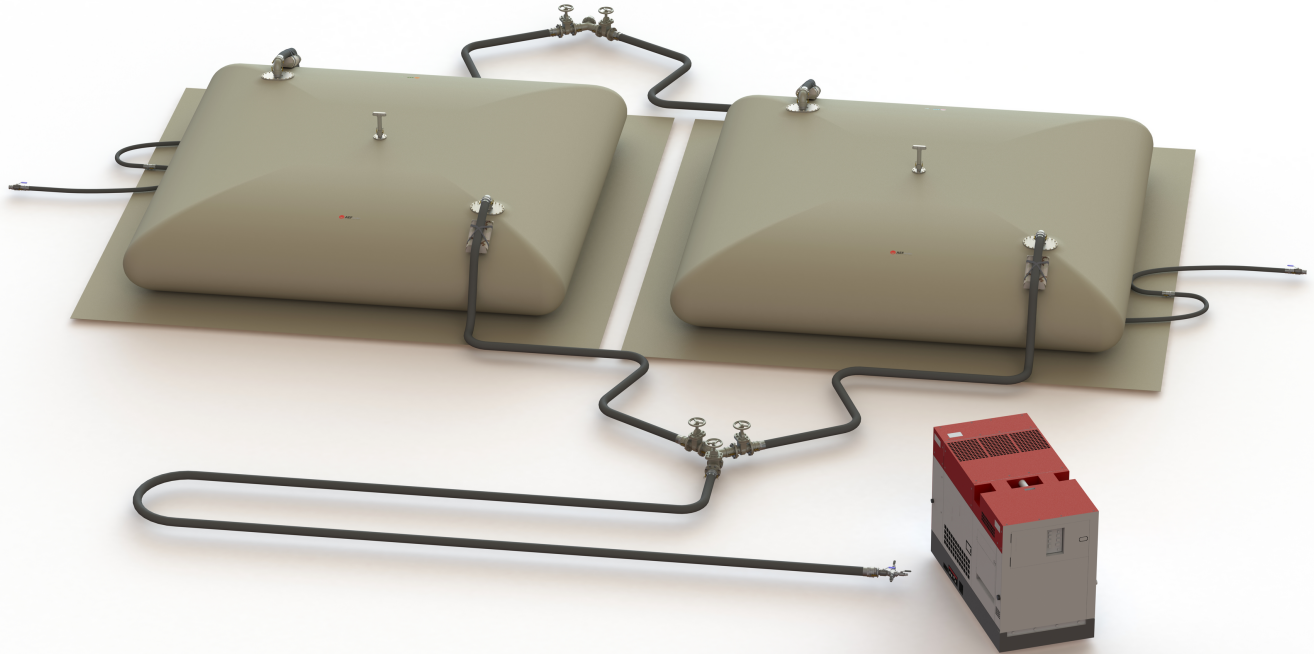




# AEF AVON

A Performance Inflatables Company

# Power Unit Auxiliary Kit



The **Power Unit Auxiliary Kit** is a custom turnkey solution that is designed to continuously feed fuel to maintain 800kw generators at Forward Operating Bases. This product comes fully accessorized, excluding the generator. AEF's custom Power Unit Auxiliary kit provides extended run time for existing power generators. With a total combined volume of 20,000 gallons and dual reservoirs, it provides the ability to maintain and refill during continuous use. Initially designed for use by the military to support remote operation bases, commercial customizable options are now available to accommodate a wide variety of services and conditions in the public sector.

## Information and Sizes

- Storage capacity: 1000 Gallons to 300,000 Gallons
- Shelf life of 10 years
- Expected service life of up to 3 years
- Tank can be relocated during service life
- Fabric:
  - Urethane-coated nylon - high strength and heavy duty
  - Puncture and abrasion resistance
  - UV Resistance (Desert Proven)
  - Thermally welded seams

## Developed from BEAR



## Ideal For

- Industrial site temporary fuel storage
- Emergency and disaster response
- Powering hospitals
- Military operations
- Remote locations
- Fuel Farms



# AEFAVON

A Performance Inflatables Company

## Drop Stitch

Drop Stitch is a high-tech material that enables AEF to build a lightweight line of products that maintains a flat rigid structure when inflated. Products utilizing drop stitch material have the capability of lifting heavy equipment, floating on water, and can be arranged for structural needs. Utilizing drop-stitch material, AEF offers products such as the Modular Work Platform and Lift Bags. The Modular Work Platform (MWP) can replace large bulky equipment, such as rafts and boats, when a sturdy work surface in water environments is required. The heights of the MWP can be customizable to fulfill any requirement. AEF's Lift Bags can be arranged into any configuration to lift the heaviest loads with minimum effort. Inquire today about the endless possible solutions drop stitch can be utilized to solve your most challenging jobs. Let AEF help you lift those heavy loads.

**Accessories can be customized and adjusted per your requirements**



Drop stitch starts with combining two pieces of industrial coated fabrics woven with several thousand fine threads.



Platforms can be arranged into any form to meet customer's requirements.



Management System  
ISO 9001:2015

www.tuv.com  
ID 9108650777





## Modular Work Platform



### Benefits

- Designed to withstand harsh marine (salt water) environment
- Can be arranged in multiple configurations with AEF's ARC system
- Easily stored and transported / economical shipping
- Can be used in situations where space is limited (low clearance bridge inspection)
- Easy one person installation
- Low maintenance and comes ready for use
- Continuous operating temperature: -25°F to 160°F
- Custom manufacturing on request

Modular work platforms can be arranged in any form to fit your application.

### Information and Sizes

- Each module is capable of supporting up to 800 lbs of equipment
- Up to 28 Sq. Ft of work surface per module
- Typical size L95" x W60" x H8"
- 3-7 PSI operating pressures
- Life expectancy of 20 years
- Fabric: Hypalon drop stitch- high strengths and heavy duty
  - Water resistance
  - Puncture and abrasion resistant
  - Fully vulcanized

### Ideal For

- Low clearance bridge inspections
- Working near docks
- Water rescue
- Boat repairs



Drop stitch fabric construction allows for an inflated bladder that maintains both dimensional stability and uniformity





# AEF AVON

A Performance Inflatables Company

## Accessories



2" Hose with Flange



4" Hose



Ball Valve



4" Manway Access Port



Fittings



6" Gate Valve



Repair Kit



Double outlet vent



Elbow



# AEF PERFORMANCE

A Performance Inflatables Company

## Trusted By

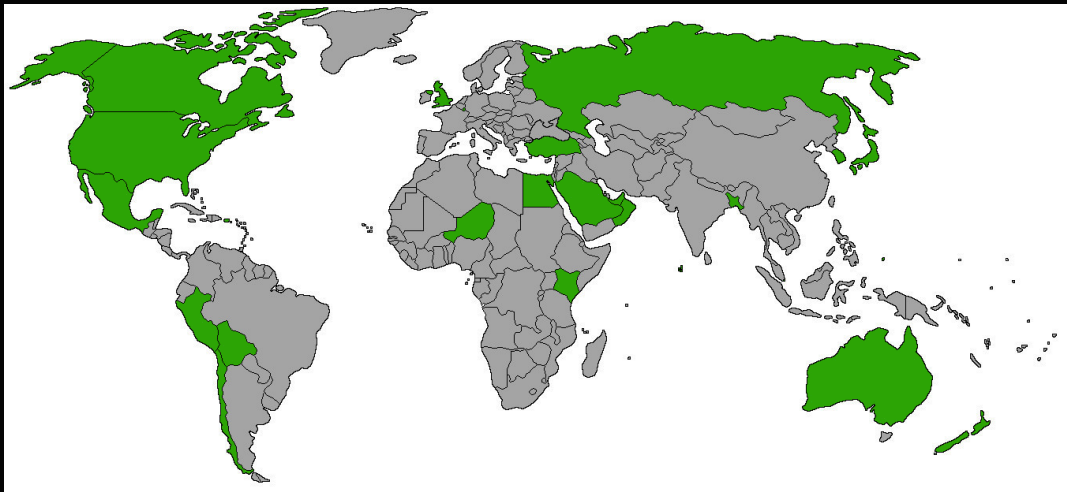
**NAVATEK**



**AGE Logistics Corporation**

**BIGELOW**  
AEROSPACE

**AQUACHEM**  
GLOBAL WATER SOLUTIONS



**WWETCO**



**Raytheon**

**U.S. AIR FORCE**



**Barrday**  
ADVANCED MATERIAL SOLUTIONS



Get in touch

+1 (601) 889-9050

113 Street A Picayune MS 39466

[sales@aef-performance.com](mailto:sales@aef-performance.com)



# AEF AVON

A Performance Inflatables Company

Avon Engineered Fabrications LLC is the world's foremost producer of high quality products made from industrial coated fabrics that meet the requirements of military and industrial consumers worldwide.

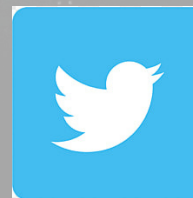
AEF is an ISO:9001-2015 certified company that is committed to its flexible storage tank program through continuous innovation and improvements which has led to the development of proprietary designs, enhancing the overall performance of our collapsible storage tanks.

AEF offers a variety of collapsible fabric tank (CFT) designs for containing various liquids, hovercraft skirt assemblies, and aircraft lift bags. Every product is tested prior to shipping.

## AEF products include:

- Collapsible TPU Tanks
- Nitrile Tank
- Oasis Tank
- Tank in a Can
- Power Auxiliary Kit
- Modular Work Platform
- Berm Liner
- Aircraft Liftbags

## Follow AEF at:



Management System  
ISO 9001:2015



www.tuv.com  
ID 9108650777