



**18-Inch Inflatable Boom Oil Containment System P19080**

The 18-Inch Inflatable Boom Oil Containment System P19080 is the primary containment equipment at an oil spill site in shallow calm water, rivers, and canals. This inflatable curtain boom, with enclosed chain ballast, uses ASTM connectors to facilitate integration of the boom with boom used by Naval and commercial facilities worldwide. The system consists of 4000' of 18" boom packaged in a 20' ISO container with the associated anchors, lines, and support equipment required for deploying the boom. Personnel and small craft are required to fully support deployment. The Oil Containment Boom System P19080 is portable and maintained in a state of readiness for rapid deployment to a spill site.

## System Components for P19080

Alternates

ESSM No	Nomenclature	Type	Qty	NS	Cont
<b>VA9080</b>	VAN, 18" INFLATABLE BOOM	BL	1		Y
BM0781	PALLET, STORAGE, 84" X 35" X 7", USS-18 BOOM	Contents	4		Y
BM0777	BOOM, OIL CONTAINMENT, IFL, USS-18SB, 18" X 50'	NC	2		
BM0780	BOOM, OIL CONTAINMENT, INFLATABLE, 18" X 100'	NC	10		
BM0782	BASKET, ANCHOR, 84" X 78" X 30"	Contents	1		
BM0783	BASKET, EQUIPMENT, 84" X 78" X 46"	Contents	1		Y
AC0501	AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL	NC	1		
AC0500	AIR COMPRESSOR, 14 CFM @ 100 PSI, DIESEL	ALTN			
BM0784	BOOM REPAIR KIT, 18" BOOM	NC	1		
CP3000	CONTAINMENT POOL, MCHRY, 5' X 5' X 12"	NC	1		
CP3020	CONTAINMENT POOL, 6' X 4' X 12"	ALTN			
PU2103	PUMP, DIAPHRAGM, 1", PNEUMATIC	NC	1		

Baseline verified on 12/27/2017, \* Not shown in catalog.

**ESSM - VA9080  
VAN, 18" INFLATABLE BOOM**



18 Inflatable Boom Van VA9080

The 18 Inflatable Boom Van VA9080 is a 20-ft ISO storage and shipping container for 4000 feet of 18" Oil Containment Boom BM0780, 400-ft of 18" Shore Boom BM0777, an anchor basket containing 40 anchors and anchor line BM0782, a supporting equipment basket BM0783 containing an air compressor AC0501, a containment pool CP3000, a pneumatic pump PU2103, navigation lights, helix screw anchors, sorbent pads, and a set of container lifting slings.

**Specifications**

Type	Description	Qty
Manufacturer	ESSM Facility	
Model	VA9080	

**Physical Characteristics**

Type .....	Descriptions .....		
	Shipping		
Length	20 ft, 0 in		
Width	8 ft, 0 in		
Height	8 ft, 0 in		
Cube	1280 cu ft		
Footprint	160 sq ft		
Weight	23400 lbs		

References

Ref No	Reference
1	None

**ESSM - BM0781  
PALLET, STORAGE, 84" X 35" X 7", USS-18 BOOM**



18 Inflatable Boom Storage Pallet BM0781

The 18 Inflatable Boom Storage Pallet BM0781 is a storage/shipping container for the 18 inflatable boom. The pallet is designed to hold 10, 100' sections of the 18" boom and two 50' sections of 18 Inflatable Shore Boom. The pallet is constructed of 2- and 2 1/2-inch square tubing with a #9 expanded metal deck to support the boom. The pallet incorporates forklift slots for ease in handling and transporting.

Specifications		
Type	Description	Qty
Manufacturer	ESSM Facility	
Model	BM0781	

Physical Characteristics			
Type .....	Descriptions .....		
	Shipping w/boom		
Length	7 ft, 0 in		
Width	2 ft, 11 in		
Height	5 ft, 11 in		
Cube	121 cu ft		
Footprint	21 sq ft		
Weight	2720 lbs		

References

Ref No	Reference
1	NAVSEA Drawing 8521225, USS-18 Boom Equipment Pallet

**ESSM - BM0777**  
**BOOM, OIL CONTAINMENT, IFL, USS-18SB, 18" X 50'**



USS-18SB Inflatable Oil Containment Shore Boom BM0777

The USS-18SB Inflatable Oil Containment Shore Boom BM0777 is constructed of 36 oz urethane over a leno based weave of high strength nylon cloth that resists abrasions, gouging, oil, and saltwater. The standard 50' section has a 48" long, 9" diameter inflatable flotation chamber on top and two 9" x 48" water ballast chambers on the bottom. Each 50' section is thermo welded with no stitched seams that can pull apart. The boom has a water ballasted skirt that extends 9" below the flotation chambers for containing the oil. The boom is a highly visible orange color with a SUPSALV logo on each end.

Specifications		
Type	Description	Qty
Manufacturer	Slickbar	
Model	BCH9CU50	
Draft	0 ft, 10 in	
Freeboard	0 ft, 8 in	
Section length	50 ft, 0 in	
Weight per foot	2.45 lb	
Flotation chamber		
Diameter	0 ft, 9 in	
Length	40 ft, 0 in	
Buoyancy	4.2 lb/ft	
Handle spacing	7 ft, 6 in	

**Specifications**

Type	Description	Qty
<b>Materials</b>		
Coated fabric	36 oz Urethane impregnated nylon cloth	
Color	Orange	
Ballast	Two 48' x 8" water chambers	
End connections	6061-T6 aluminum alloy extrusion	
Clevis, shackles, and oblong clevis pins	Galvanized steel	

**Physical Characteristics**

Type .....	Descriptions .....		
	Shipping	Operating	
Length		50 ft, 0 in	
Width		1 ft, 6 in	
Height		1 ft, 6 in	
Cube		113 cu ft	
Footprint	3 sq ft	75 sq ft	
Weight			

**References**

Ref No	Reference
1	None

## ESSM - BM0780 BOOM, OIL CONTAINMENT, INFLATABLE, 18" X 100'



18 x 100' Inflatable Oil Containment Boom BM0780

The 18 x 100' Inflatable Oil Containment Boom BM0780 is constructed of 36 oz urethane over a leno based weave of high strength nylon cloth that resists abrasions, gouging, oil, and saltwater. The standard 100-ft section has 60" long, 8" diameter inflatable flotation chambers. A 16" piece of fabric separates adjoining flotation chambers and provides flexibility for the boom. Each 100' section is thermo welded with no stitched seams that can pull apart. The boom has a skirt that extends 10 inches below the flotation chambers for containing the oil. A 5/16" galvanized chain runs through a reinforced pocket on the bottom of the skirt. This chain acts as a ballast/tension member to keep the skirt in a vertical position. There are lifting handles between every other flotation chamber to facilitate deployment and recovery of boom. Anchor points in both end plates as well as in the midpoint of each 100' section of boom provide adequate securing points. The boom is a highly visible orange color with a SUPSALV logo on each end.

Specifications		
Type	Description	Qty
Manufacturer	Applied Fabrics Technologies	
Model	CSU 18-I-NC	
Draft	0 ft, 10 in	
Freeboard	0 ft, 8 in	
Section length	100 ft, 0 in	
Weight per foot	2 lb	
Floation chamber		
Diameter	0 ft, 8 in	

**Specifications**

Type	Description	Qty
Length	50 ft, 0 in	
Buoyancy	4.2 lb/ft	
Handle spacing	7 ft, 6 in	
<b>Materials</b>		
Coated fabric	36 oz Urethane impregnated nylon cloth	
Color	Orange	
Ballast	5/16 in galvanized steel chain	
End connections	6061-T6 aluminum alloy extrusion	
Clevis, shackles, and oblong clevis pins	Galvanized steel	

**Physical Characteristics**

Type .....	Descriptions .....		
	Shipping	Operating	
Length	5 ft, 0 in	100 ft, 0 in	
Width	1 ft, 6 in	0 ft, 8 in	
Height	0 ft, 8 in	1 ft, 6 in	
Cube	5 cu ft	100 cu ft	
Footprint	8 sq ft	67 sq ft	
Weight			

**References**

Ref No	Reference
1	None

**ESSM - BM0782**  
**BASKET, ANCHOR, 84" X 78" X 30"**



Boom Anchor Basket BM0782

The Boom Anchor Basket BM0782 is a wire mesh basket used for storing 20 aluminum Fortress anchors that support the 4000' of boom in the 18 Harbor Boom Oil Containment Boom System P19070. The anchor box measures 84" x 78" x 30" and contains four Fortress Guardian G23, 13-lb anchors, associated 3/8" chain leads, 1/2" anchor lines, inflatable crown buoys, and 3/8" crown lines.

**Specifications**

Type	Description	Qty
Manufacturer	ESSM Facility	
Model	BM0782	

**Physical Characteristics**

Type .....	Descriptions .....		
	Shipping		
Length	7 ft, 0 in		
Width	6 ft, 6 in		
Height	2 ft, 6 in		
Cube	114 cu ft		
Footprint	46 sq ft		
Weight	2520 lbs		

References

Ref No	Reference
1	None

**ESSM - BM0783**  
**BASKET, EQUIPMENT, 84" X 78" X 46"**



Equipment Basket BM0783

The Equipment Basket BM0783 is a wire mesh basket with drop sides used to store and transport the ancillary equipment for 18" Harbor Boom BM0780.

The equipment basket contains an air compressor, a pneumatic pump, a patching kit, basic hand tools, boom bridles with 50' tow lines, 48 boom light assemblies, batteries, and one 600' reel each of 1/2" anchor and 3/8" crown line.

**Specifications**

Type	Description	Qty
Manufacturer	ESSM Facility	
Model	BM0783	

**Physical Characteristics**

Type .....	Descriptions .....		
	Shipping		
Length	7 ft, 0 in		
Width	6 ft, 6 in		
Height	3 ft, 10 in		
Cube	175 cu ft		
Footprint	46 sq ft		
Weight	2020 lbs		

References

Ref No	Reference
1	None

**ESSM - AC0501**  
**AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL**



Air Compressor AC0501

The Air Compressor AC0501 is a two-stage, high volume unit that provides 19 cfm of compressed air at 125 psig. The air compressor is powered by a 1-cylinder, 6.2-hp diesel engine, which has its own fuel supply tank. The engine is designed to operate at a continuous speed of 3600 rpm for long periods of time. The engine and compressor are enclosed in a protective frame that is mounted on top of a 30-gallon air storage tank with wheels, which allows for easy maneuverability.

AH

Specifications		
Type	Description	Qty
Air Compressor Assembly		
Manufacturer	Emglo Products	
Model	GC8YDA-17F	
Air Compressor		
Manufacturer	Emglo Products	
Model	JU	
Capacity	19 cfm	
Rated operating pressure	125 psi	
Cylinders	2	

**OIL CONTAINMENT BOOM SYSTEM, USS-18 IFL BOOM**

**System - P19080**

**Specifications**

Type	Description	Qty
Stages	2	
Rpm	875	
Storage tank	30 gallons	
Operating pressure range	100 to 120 psig	
<b>Engine</b>		
Manufacturer	Yanmar	
Model	L60	
Cylinders	1	
Bore	2.95 in	
Stroke 2.44 in	2.44 in	
Displacement	16.7 cu in	
Rpm (continuous)	3600	
Compression ratio	20 : 1	
Starting	Elec./recoil	
Battery	12 V dc	
Fuel	Diesel	
Fuel consumption	0.5 gph	

**Physical Characteristics**

Type .....	Descriptions .....		
	Shipping	Operating	
Length	3 ft, 10 in	3 ft, 10 in	
Width	2 ft, 1 in	2 ft, 1 in	
Height	3 ft, 0 in	3 ft, 0 in	
Cube	24 cu ft	24 cu ft	
Footprint	8 sq ft	8 sq ft	
Weight	420 lbs	420 lbs	

**References**

Ref No	Reference
1	Yanmar Diesel Engine Operation Manual for L-Series Engine
2	Englo Parts Price List J 288
3	Jenney Air Compressor operation and Maint Manual

**ESSM - AC0500**  
**AIR COMPRESSOR, 14 CFM @ 100 PSI, DIESEL**



14 CFM 100 PSI Diesel Air Compressor

The Air Compressor AC0500 is a diesel-powered, 14-cfm, air-cooled, single-stage, 4-cycle air compressor. The air compressor is used for boom inflation, operation of pneumatic-powered tools, and other needs that require low pressure, low volume air.

AH

Specifications		
Type	Description	Qty
Air Compressor Assembly		
Manufacturer	Emglo Products	
Model	22C125P17E	
Air Compressor		
Manufacturer	Emglo Products	
Model	LCU	
Cylinders	4	
Stage	Single	
Bore/stroke	2 1/2 in/2 in	
Displacemen	13.6 cu in	

**Specifications**

Type	Description	Qty
Pressure	100 psi	
Rpm	1725	
Cooling	Air	
<b>Engine</b>		
Manufacturer	Teledyne Wisconsin Motor	
Model	WD1-436	
Cylinders	1	
Cooled	Air	
Cycle	4	
Starter	Electric generator/hand crank	
Battery	12 V dc	
Fuel	Diesel	
Fuel consumption	0.5 gph	

**Physical Characteristics**

Type .....	Descriptions .....		
	Shipping	Operating	
Length	3 ft, 6 in	3 ft, 6 in	
Width	2 ft, 1 in	2 ft, 1 in	
Height	3 ft, 0 in	3 ft, 0 in	
Cube	22 cu ft	22 cu ft	
Footprint	8 sq ft	8 sq ft	
Weight	405 lbs	405 lbs	

**References**

Ref No	Reference
1	Wisconsin Diesel Engine Parts Catalog, MM-367
2	Englo Products Corp. Parts List, L-983
3	Jenney Air Compressor operation and Maint Manual

**ESSM - BM0784  
BOOM REPAIR KIT, 18" BOOM**



18" Boom Repair kit BM0784

The 18" Boom Repair kit BM0784 contains all the equipment and supplies to make field repairs to the Inflatable USS-18SB Oil Containment Boom, 18" X 50' BM0777 and the Inflatable Oil Containment Boom 18" X 100' BM0780.

Specifications		
Type	Description	Qty
Manufacturer	ESSM Facility	
Model	BM0784	
This kit contains the following major items:		
Container, storage		1
Hand welder		1
Instruction manual, hand welder		1
Inventory, laminated		1
Miscellaneous replacement hardware		1
Miscellaneous repair tools		1
Repair fabric		1
Roller, 2"		1

**Specifications**

Type	Description	Qty
Technical manual, fabric repair		1

**Physical Characteristics**

Type .....	Descriptions .....		
	Shipping		
Length	2 ft, 1 in		
Width	1 ft, 5 in		
Height	0 ft, 10 in		
Cube	3 cu ft		
Footprint	3 sq ft		
Weight	30 lbs		

**References**

Ref No	Reference
1	None

**ESSM - CP3000  
CONTAINMENT POOL, MCHRY, 5' X 5' X 12"**



5' x 5' x 12" Machinery Containment Pool CP3000  
(Shipping Configuration)



5' x 5' x 12" Machinery Containment Pool CP3000  
(Operational Configuration)

# OIL CONTAINMENT BOOM SYSTEM, USS-18 IFL BOOM

System - P19080

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the component that it is supporting.

## Specifications

Type	Description	Qty
Manufacturer	Basic Concepts	
Model	1003-00221-201A	

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping	Operating	
Length	1 ft, 8 in	5 ft, 0 in	
Width	1 ft, 8 in	5 ft, 0 in	
Height	0 ft, 10 in	1 ft, 0 in	
Cube	3 cu ft	25 cu ft	
Footprint	3 sq ft	25 sq ft	
Weight	40 lb	40 lb	

## References

Ref No	Reference
1	None

**ESSM - CP3020  
CONTAINMENT POOL, 6' X 4' X 12"**



6' X 4' X 12" Containment Pool CP3020

The Machinery Containment Pool CP3020 is a 6' x 4' x 12" urethane berm. It is used to catch and contain any oil, fuel, hydraulic fluid, or contaminants leaking or spilled from diesel powered or hydraulically driven components.

**Specifications**

Type	Description	Qty
Manufacturer	Basic Concepts	
Model	1003-00704-201A	

**Physical Characteristics**

Type .....	Descriptions .....		
	Shipping	Operating	
Length	2 ft, 3 in	6 ft, 0 in	
Width	2 ft, 4 in	4 ft, 0 in	
Height	0 ft, 8 in	1 ft, 0 in	
Cube	4 cu ft	24 cu ft	
Footprint	6 sq ft	24 sq ft	
Weight	35 lbs	35 lbs	

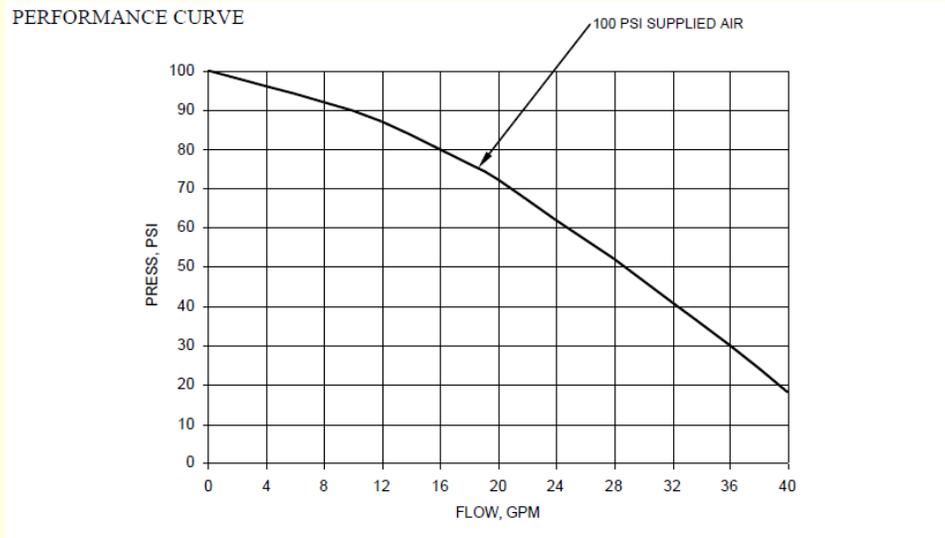
References

Ref No	Reference
1	None

**ESSM - PU2103  
PUMP, DIAPHRAGM, 1", PNEUMATIC**



Pneumatic 1-Inch Diaphragm Pump PU2103



PERFORMANCE CURVE

The Pneumatic 1-Inch Diaphragm Pump PU2103 is made of aluminum and is typically used to fill the water chambers on the 26 SB, shore seal boom in the system. The pump is used in applications where electricity is not available or cannot be used due to safety conditions. The diaphragm pump provides pollution-free and energy-efficient operation, with fewer moving parts than conventional motor-driven pumps.

**Specifications**

Type	Description	Qty
Pump Assembly		
Manufacturer	Warren Rupp	
Model	SA1-DB4A	
Suction	1 in	
Discharge	1 in	
Max. air supply pressure	125 psi	
Max. discharge rate	42 gpm	

**Physical Characteristics**

Type .....	Descriptions .....		
	Shipping	Operating	
Length	2 ft, 2 in	2 ft, 2 in	
Width	1 ft, 0 in	1 ft, 0 in	
Height	1 ft, 4 in	1 ft, 4 in	
Cube	3 cu ft	3 cu ft	
Footprint	3 sq ft	3 sq ft	
Weight	40 lbs	40 lbs	

**References**

Ref No	Reference
1	Manufacturer’s Pamphlet for Models SA1-a and SA25A