

ARCTIC GUARD

Collapsible Fabric Tank for
extreme Weather Conditions



Description

The Arctic Guard Tank™ was specifically designed for liquid fuel storage. It is ideal for use with fuels that have a high aromatic content. The Arctic Guard Tank™ has a unique design and is constructed from a fabric exclusive to RAYMAC. It exceeds all quality standards for design, construction, and diffusion reduction.

Arctic Guard storage reservoirs solve liquid storage problems. These tanks combine portability and versatility with economy. These tanks are available in a full range of sizes from 100 to 50,000 USG and larger, if required, for containment of fuel, or virtually any liquid.

Portable & Transportable

The Arctic Guard system is easily and quickly installed and can be used immediately. Almost no site preparation is involved. The tanks are lightweight and, because they are fully collapsible, they offer a liquid containment capacity many times larger than their transportable size. The Arctic Guard can easily be folded, transported and relocated. Compared to steel tanks, the Arctic Guard offers significant cost savings in transportation and site preparation and it won't rust or corrode.

Proven and Reliable

Arctic Guard containers are constructed from high strength industrial fabrics and are crafted to the highest production standards in the industry. The durable fabric of the tank always hugs the surface of the contained fluid so only a few square inches of liquid are exposed directly to the air. This is an important feature for fuel storage, as there is virtually no area where water vapour can condense and contaminate the fuel. Likewise,

dangerous vapours cannot accumulate, as the tank continuously adjusts itself to whatever volume of liquid is in storage. The improved fuel quality provided by Arctic Guard storage results in significant cost savings due to longer fuel life and fewer problems with the equipment using the fuel.

Tank Application

The Arctic Guard Tank™ was designed to contain jet fuels, diesel and gasoline. It was developed to store fuels with up to 60% aromatic content in the most extreme environments.



**Arctic Guard Tank Farm being installed
in Siberia**

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All Arctic Guard Tanks are rigorously tested prior to shipment.

ARCTIC GUARD

SPECIFICATIONS



ARCTIC GUARD

Arctic Guard tanks are constructed of 45 oz double offset urethane coated nylon fabric. This material exceeds U.S. Military Specification MILT-52983E.

The following fluids are acceptable for containment in Arctic Guard tanks: JP-1, JP-4, JP-8, Kerosene, diesel fuels with less than 60% aromatic content, regular gasoline, isopropyl alcohol. With optional corrosion proof fittings:

Phosphoric acid (10%), sodium hydroxide (60%).

Before ordering, we suggest that you discuss your intended application with a RAYMAC representative. For storage of water or other non-fuel liquids see the Terra Tank.

U.S. Gal./Litres	Feet	Metres	Lbs	Kg	Inches	CM
100/379	4.5 x 4.8	1.4 x 1.5	132	60	36 x 38 x 17	92 x 97 x 44
120/454	5.2 x 4.8	1.6 x 1.5	145	66	36 x 38 x 17	92 x 97 x 44
250/946	5.0 x 7.0	1.6 x 2.2	172	78	36 x 38 x 17	92 x 97 x 44
300/1,135	5.9 x 7.0	1.8 x 2.2	178	81	36 x 38 x 17	92 x 97 x 44
500/1,893	9.0 x 7.0	2.8 x 2.2	185	84	36 x 38 x 17	92 x 97 x 44
600/2,271	10.6 x 7.0	3.3 x 2.2	191	87	36 x 38 x 17	92 x 97 x 44
750/2,839	8.4 x 9.4	2.6 x 2.9	205	93	36 x 38 x 17	92 x 97 x 44
900/3,407	9.6 x 9.4	3.0 x 2.9	211	96	36 x 38 x 17	92 x 97 x 44
1,000/3,785	10.6 x 9.4	3.3 x 2.9	244	111	36 x 38 x 17	92 x 97 x 44
1,200/4,542	12.4 x 9.4	3.8 x 2.9	257	117	36 x 38 x 17	92 x 97 x 44
1,500/5,678	14.9 x 9.4	4.6 x 2.9	290	132	48 x 48 x 12	122 x 122 x 31
1,800/6,814	15.0 x 9.4	4.6 x 2.9	304	138	48 x 48 x 12	122 x 122 x 31
2,000/7,571	10.6 x 14.0	3.3 x 4.3	317	144	48 x 48 x 12	122 x 122 x 31
2,400/9,085	11.7 x 14.0	3.6 x 4.3	343	156	48 x 48 x 12	122 x 122 x 31
2,500/9,464	12.6 x 14.0	3.9 x 4.3	350	159	48 x 48 x 12	122 x 122 x 31
3,000/11,356	14.6 x 14.0	4.5 x 4.3	356	162	48 x 48 x 18	122 x 122 x 46
3,600/13,627	17.0 x 14.0	5.2 x 4.3	409	186	48 x 48 x 18	122 x 122 x 46
4,000/15,142	18.0 x 14.0	5.5 x 4.3	416	189	48 x 48 x 18	122 x 122 x 46
4,800/18,170	20.0 x 14.0	6.1 x 4.3	429	195	48 x 48 x 18	122 x 122 x 46
5,000/18,927	14.6 x 18.8	4.5 x 5.8	471	214	48 x 48 x 24	122 x 122 x 61
6,000/22,712	16.0 x 18.8	4.9 x 5.8	492	224	48 x 48 x 24	122 x 122 x 61
7,500/28,391	19.9 x 18.8	6.1 x 5.8	544	247	48 x 48 x 36	122 x 122 x 92
9,000/34,069	23.4 x 18.8	7.2 x 5.8	645	293	48 x 48 x 36	122 x 122 x 92
10,000/37,854	24.6 x 18.8	7.5 x 5.8	660	300	48 x 48 x 40	122 x 122 x 102
12,000/45,425	21.6 x 23.4	6.6 x 7.2	739	336	48 x 48 x 40	122 x 122 x 102
15,000/56,781	26.7 x 23.4	8.2 x 7.2	759	345	48 x 48 x 40	122 x 122 x 102
18,000/68,137	30.0 x 23.4	9.2 x 7.2	832	378	48 x 48 x 40	122 x 122 x 102
20,000/75,708	27.11 x 28.0	8.3 x 8.6	884	402	48 x 48 x 40	122 x 122 x 102
24,000/90,850	33.11 x 28.0	10.1 x 8.6	1122	509	48 x 48 x 40	122 x 122 x 102
25,000/94,635	35.5 x 28.0	10.9 x 8.6	1135	515	48 x 48 x 48	122 x 122 x 122
48,000/181,699	50.0 x 32.8	15.3 x 10.0	1782	809	48 x 48 x 48	122 x 122 x 122
50,000/189,270	52.0 x 32.8	15.9 x 10.0	1934	878	48 x 84 x 40	122 x 214 x 102

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The Insta-Berm™ is used for spill containment of hazardous materials

INSTA-BERM™

Secondary Containment



Insta-Berm™

The Insta-Berm™, made of industrial-strength fabrics, is a durable and easy-to-use environmental safeguard. Insta-Berm™ is used for the secondary containment of toxic materials in many applications, to help industries meet today's strict guidelines on environmental protection.

Features of the All-New L-Rod Design

- > L-shaped rods hold up walls, yet fold down easily for vehicle entry and exit
- > Fully collapsible for compact storage and easy transport
- > Instant deployment without any tools
- > Wide range of sizes available, plus custom-made sizes
- > No gate required - fold-down design allows vehicles or mobile equipment to be driven in and out of the berm for storage or washdown
- > Can be easily cleaned, folded, and stored for reuse
- > Eyelet patches for staking down the berm
- > Extremely cost-efficient compared to air-inflated models
- > Simple and inexpensive to repair
- > Appropriate for waste water, petroleum products, and various chemicals
- > Optional Track Belting for driving vehicles into the Insta-Berm helps the liner last longer!

Fabric Options

Chem: Chemical resistant fabric

Arctic: Chemical resistant fabric for temperatures to -50 Degrees F (-45.6 Degrees C)

Applications for Berms

- | | |
|--|--------------------------------|
| > Chemical transfer | > Chemical treatment plants |
| > Tankers and oilers | > Hazardous waste disposal |
| > Industrial maintenance | > Sanitation |
| > Paint factories | > Fuel drum storage |
| > Refineries | > Aircraft & equipment fueling |
| > Spill containment | > Manufacturing plants |
| > Oil spill clean-up | > Oil pumping sites |
| > Fuel oil distribution | > Vehicle maintenance |
| > Vehicle & equipment washdown & decontamination | > Battery recycling & disposal |

See Reverse side for Insta-Berm™ Specifications



The Insta-Berm™ helps companies meet stricter government regulations on environmental protection.

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Operate a complete fuel transfer system safely inside an Insta-Berm™

The benefits of the new design of the Insta-Berm™ include a more secure vertical wall.

INSTA-BERM™

SPECIFICATIONS



Model	Maximum Capacity			Inside Dimensions (LxWxH)		Weight (Ship)	
	US Gal.	Imp Gal.	Litres	Feet, In.	Meters	Lbs	Kg
IBLR 101015	935	780	3512	10' x 10' x 15"	3.3 x 3.3 x .4	86	39
IBLR 101515	1400	1170	5260	10' x 15' x 15"	3.3 x 5.0 x .4	102	46
IBLR 102015	1870	1560	7025	10' x 20' x 15"	3.3 x 6.6 x .4	140	64
IBLR152015	2800	2340	10,520	15' x 20' x 15"	5.0 x 6.6 x .4	172	78
IBLR 202015	3740	3120	14,050	20' x 20' x 15"	6.6 x 6.6 x .4	188	85
IBLR 153015	4200	3500	15,780	15' x 30' x 15"	5.0 x 10.0 x .4	225	102
IBLR 154015	5600	4675	21,040	15' x 40' x 15"	5.0 x 13.3 x .4	263	119
IBLR 203015	5600	4675	21,040	20' x 30' x 15"	6.6 x 10.0 x .4	260	118
IBLR 204015	7500	6230	28,180	20' x 40' x 15"	6.6 x 13.3 x .4	310	140
IBLR 303015	8400	7000	31,560	30' x 30' x 15"	10.0 x 10.0 x .4	343	156
IBLR 205015	9300	7800	34,940	20' x 50' x 15"	6.6 x 16.6 x .4	382	173
IBLR 206015	11,200	9350	42,080	20' x 60' x 15"	6.6 x 20.0 x .4	435	197
IBLR 304015	11,300	9440	42,450	30' x 40' x 15"	10.0 x 13.3 x .4	450	204
IBLR 305015	14,000	11,700	52,600	30' x 50' x 15"	10.0 x 16.6 x .4	535	243
IBLR 404015	15,000	12,000	56,360	40' x 40' x 15"	13.3 x 13.3 x .4	535	243
IBLR 306015	16,800	14,000	63,120	30' x 60' x 15"	10.0 x 20.0 x .4	610	277
IBLR 405015	19,000	15,000	71,385	40' x 50' x 15"	13.3 x 16.6 x .4	630	286
IBLR 505015	23,500	19,000	88,290	50' x 50' x 15"	16.6 x 16.6 x .4	745	338

NOTE: Capacities do not allow for 10% safety. All dimensions are nominal and specifications subject to change.

Why use an Insta-Berm™

The Insta-Berm™ helps companies avoid stiff penalties from non-compliance of EPA standards.

40CFR112.7

"Any bulk storage container (eg. Tanks, oil-water separators) must have secondary containment for the entire contents of the largest single container, with sufficient freeboard to allow for precipitation."

Options

The Insta-Berm™ is available with an optional low-cost drain fitting installed. This fitting can be opened to let out accumulated rainwater, or connected to a hose to pump out spilled product.

An overfill protection system is also available. This system allows precipitation to be drained from the berm while containing spilled chemicals.

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The Rain Drain™ will continuously filter out rain water while containing hydrocarbons.

RAIN DRAIN™

Berm Filtration System



Rain Drain™

Enabling your secondary containment berm to contain minor leaks or spills of hazardous materials, the RainDrain will continuously filter out rain water while containing hydrocarbons.

Features

- > Filters rainwater down to 10 PPM in compliance with EPA regulation 40CFR112.7
- > Go-no-go filtration system will automatically stop the discharge of water when full of hydrocarbons eliminating the need for monitoring
- > Easy installation within minutes
- > Includes a ball valve with sight glass to examine liquid levels & content
- > Rugged anodized aluminum filter casing
- > Discharge end - molded cap with 3/8" discharge port
- > Feed end - molded cap with 3/4" camlock inlet
- > Replacement filter media kits available in packages of 6

Specifications

	Large	Small
Capacity	4.8 USG 16.65 L	2.2 USG 8.32 L
Flow Rate	2.5 - 3.5 USGPM	2 - 3 USGPM

Components

- > Filter casing with molded caps and camlock inlet
- > 1 Pre-packaged spare filter media kit with used
- > cartridge disposal bag
- > Ball valve with hose and sightglass
- > 8 foot chemical hose
- > Bulkhead fitting for the berm



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The Terra Tank has been specifically designed to combine portability and versatility with economy

TERRA TANK

Collapsible Fabric Tank



**Terra Tank
Alaska, USA**

Description

Terra Tank storage reservoirs solve liquid storage problems. The tank has been specifically designed to combine portability and versatility with economy. The Terra Tank is available in a full range of sizes from 100 to 50,000 USG and larger, if required, for containment of fuel, water, or virtually any liquid.

Portable & Transportable

The Terra Tank system is easily and quickly installed and can be used immediately. Almost no site preparation is involved. They are lightweight and, because they are fully collapsible, they offer a liquid containment capacity many times larger than their transportable size. The Terra Tank can easily be folded, transported and relocated. Compared to steel tanks, the Terra Tank offers significant cost savings in transportation and site preparation and it won't rust or corrode.

Proven and Reliable

Terra Tank containers are constructed from high strength industrial fabrics and are crafted to the highest production standards in the industry. The durable fabric of the tank always hugs the surface of the contained fluid so only a few square inches of liquid are exposed directly to the air. This is an important feature for fuel storage, as there is virtually no area where water vapour can condense and contaminate the fuel.

Likewise, dangerous vapours cannot accumulate, as the tank continuously adjusts itself to whatever volume of liquid is in storage. The improved fuel quality provided by Terra Tank storage results in significant cost savings due to longer fuel life and fewer problems with the equipment using the fuel.

A Terra Tank for Your Application

Terra Tank containers are specifically designed for different types of liquid storage and applications. Bladders can be constructed from three types of fabrics: Petro-Shield™, Chemm-Shield™, and Aqua-Shield™ to contain liquids ranging from jet fuel to chemical solutions. (See specification details on the back.)



**Terra Tank on site in the
Canadian Arctic**

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Terra Tank undergoing rigorous pressure testing prior to shipping to Siberia

TERRA TANK DESCRIPTION



Aqua-Shield™

Aqua-Shield tanks are constructed from fabric approved by the National Sanitation Foundation for containment of potable water. Aqua-Shield is suitable for containment of some acids, but is not suitable for fuels or oils. Aqua-Shield fabric that meets U.S. Military Specification MIL-T-53029C is available.

Chem-Shield™

Chem-Shield tanks are constructed from fabrics which combine excellent durability with resistance to many chemicals. Please contact an SEI representative for specific information on which fluids are acceptable for containment in Chem-Shield tanks. This fabric is suitable for containment of sludge, transformer mineral oil, sulphuric acid, PCB transformer oils, 30% chlorine, ammonium hydroxide, ethanol, and fertilizer.

Petro-Shield™

Petro-Shield tanks are constructed from fabrics which meet U.S. Military Specification MIL-T-52983G for fuel tanks. The following fluids are acceptable for containment in Petro-Shield tanks: JP-1, JP-4, JP-8, Kerosene, diesel, fuels with less than 40% aromatic content, and isopropyl alcohol. With optional corrosion proof fittings: Phosphoric acid (10%), sodium hydroxide (60%). Before ordering, we suggest that you discuss your intended application with an SEI representative. For fuels with more than 40% aromatic content or gasoline, please see the Desert King Tank.

WARRANTY

The Terra Tank comes with a one year limited warranty and free lifetime annual fabric testing and analysis program.

TERRA TANK STANDARD EQUIPMENT AND OPTIONAL FITTINGS

The 2" fill /drain piping kit consists of:

- 1 - 2" nipple
- 1 - 2" 633-A female NPT adaptor
- 1 - 2" 633-B male NPT coupler
- 1 - 2" 90 degree street elbow
- 1 - 2" bronze ball valve
- 1 - 2" 633-F male NPT adaptor
- 1 - 2" 634-B dust cap

The 2" vent/overflow piping kit consists of:

- 1 - 2" nipple
- 1 - 2" 633-A female NPT adaptor
- 1 - 2" 634-B dust cap
- 1 - 2" 633-B male NPT coupler
- 1 - 2" spark-proof vent cap

Dry Repair Kit included with all Terra Tanks
liquid Repair Kit (Dangerous Goods) available
at additional cost

An optional bottom drain fitting is available.
It consists of: 1 - 1" nipple
1 - 1" 90 degree elbow
1 - 1" plug

A wide range of additional flanges, fittings, valves, etc. can be installed as optional equipment.

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TERRA TANK SPECIFICATIONS



TYPICAL TERRA TANK SPECIFICATIONS

Capacity		Nominal Dimensions Empty		Nominal Dimensions Filled		Approx. Weight Empty		Approx. Shipping Weight		Approx. Shipping Dimensions	
U.S. Gal/Liters	Feet	Meters	Feet	Meters	lbs	Kg	lbs	Kg	Inches	Cm	
100/379	4.5 x 4.8	1.4 x 1.5	3.11 x 4.5	0.9 x 1.3	75	35	100	46	36 x 38 x 17"	92 x 97 x 44	
250/946	5.0 x 7.0	1.6 x 2.2	4.3 x 6.3	1.3 x 1.9	92	42	130	59	36 x 38 x 17"	92 x 97 x 44	
500/1893	9.0 x 7.0	2.8 x 2.2	8.3 x 6.3	2.5 x 1.9	105	48	140	64	36 x 38 x 17"	92 x 97 x 44	
750/2839	8.4 x 9.4	2.6 x 2.9	7.3 x 8.3	2.2 x 2.5	115	53	155	71	36 x 38 x 17"	92 x 97 x 44	
1000/3785	10.6 x 9.4	3.3 x 2.9	9.5 x 8.3	2.8 x 2.5	136	62	185	84	36 x 38 x 17"	92 x 97 x 44	
1500/5678	14.9 x 9.4	4.6 x 2.9	13.8 x 8.3	4.2 x 2.5	151	69	220	100	48 x 48 x 12"	122 x 122x 31	
2000/7571	10.6 x 14.0	3.3 x 4.3	8.11 x 12.8	2.4 x 3.9	170	78	240	109	48 x 48 x 12"	122 x 122x 31	
2500/9464	12.6 x 14.0	3.9 x 4.3	12.7 x 12.8	3.8 x 3.9	182	83	265	121	48 x 48 x 12"	122 x 122 x 31	
3000/11356	14.6 x 14.0	4.5 x 4.3	12.1 x 12.8	3.6 x 3.9	214	98	270	123	48 x 48 x18 ⁱ	122 x 122 x 46	
4000/15142	18.0 x 14.0	5.5 x 4.3	16.5 x 12.8	5.0 x 3.9	225	103	315	143	48 x 48 x18"	122 x 122 x 46	
5000/18927	14.6 x 18.8	4.5 x 5.8	12.8 x 16.7	3.9 x 5.0	257	117	357	162	48 x 48 x 24"	122 x 122 x 61	
7500/28391	19.9 x 18.8	6.1 x 5.8	17.8 x 16.7	5.4 x 5.0	332	151	412	187	48 x 48 x 36"	122 x 122 x 92	
10000/37854	24.6 x 18.8	7.5 x 5.8	22.3 x 16.7	6.7 x 5.0	372	169	500	227	48 x 48 x 40"	122 x 122 x 102	
15000/56781	26.7 x 23.4	8.2 x 7.2	24.1 x 20.1	7.3 x 6.1	434	197	575	261	48 x 48 x 40"	122 x 122x 102	
20000/75708	27.11 x 28.0	8.3 x 8.6	25.5 x 25.6	7.7 x 7.8	601	273	670	304	48 x 48 x 40"	122 x 122 x 102	
50000/189270	52.0 x 32.8	15.9 x 10.0	49.6 x 30.2	15.1 x 9.2	1241	563	1465	665	48 x 84 x 40"	122 x 214 x 102	

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