

SuperVault MH

Multi-Hazard Rated

Protected Aboveground Fuel Storage Tanks

SuperVault MH

The SuperVault MH is the first **MULTI-HAZARD RATED Insulated and Protected Aboveground Fuel Storage Tank** available in the World and it is the first tank to pass the stringent safety requirements of Uniform Fire Code Standard A-II-F-1 (formerly known as 79-7) and Southwest Research Institute Standard 95-03 and 93-01. The Multi-Hazard Rating allows the SuperVault MH to be recertified for use after exposure to a fire, puncture or impact.

The SuperVault MH provides safe aboveground storage with the highest insulation value available in a lightweight concrete design. The unique design provides unsurpassed fire protection and puncture resistance while also making handling and installation much easier than tanks encased in normal weight concrete. Since the tanks are relatively lightweight they can be shipped anywhere in the world. The insulating concrete is also protected from deterioration and damage by an additional outer steel tank. The SuperVault MH is available in two styles, cylindrical and rectangular.

SuperVault MH Cylindrical Tanks - Available from 250 Gallons to 20,000 Gallons

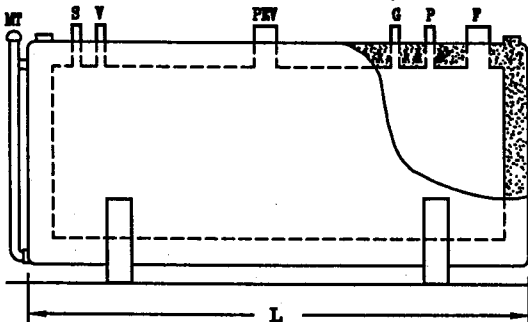
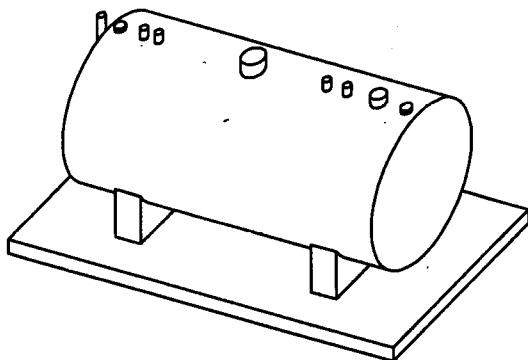
The Cylindrical line of the SuperVault MH offers two advantages to the fleet fueling operation: larger capacities available and less unusable capacity. Because of their height these tanks generally require either a ground level fill or an access platform for filling. Special plumbing and valves are included in the equipment packages for these tanks because the pumping unit is mounted on the end of the tank for convenience.

SuperVault MH Rectangular Tanks - Available from 250 Gallons to 2,000 Gallons

The Rectangular line of the SuperVault MH offers two advantages to the smaller fuel user: less visual impact and the simplicity of tank top equipment. Because the rectangular tanks are lower profile than their cylindrical counterparts, pumping equipment may be conveniently located on the top of the tank and still be accessible from the ground.

Advantages of the *SuperVault MH*

- **30-YEAR WARRANTY:** (see actual warranty for details)
- **ATTRACTIVE:** Both styles have been designed to make an aesthetically pleasing fueling facility.
- **EASILY MONITORED:** Monitoring is easily accomplished by checking the monitor tube.
- **FULLY LISTED TANK ASSEMBLY:** All SuperVault MH tanks are Multi-Hazard Rated, Insulated and Protected Aboveground Fuel Storage Tanks listed to UL 2085 Protected Tank, SwRI 95-03 and 93-01 and UFC Standard A-II-F-1 (formerly known as UFC Standard 79-7) with a 4-Hour Fire Rating.
- **BEST INSULATION:**
 1. **MADE OF LIGHTWEIGHT CONCRETE**
Lighter tanks make transportation and installation easier and less costly.
 2. **SOLID CONCRETE INSULATION**
Cannot slough, settle, or compact away from the inner tank during normal use or during a fire event insuring maximum protection of fuel and property. The Special Insulation Formula also helps guard against corrosion of the Steel Primary and Secondary Tanks.
 3. **HEAT TRANSFER TO THE PRIMARY TANK AT AN ABSOLUTE MINIMUM**
No other tank provides a higher level of insulation and fuel security. Prevents large fuel losses due to evaporation in hot climates.
 4. **MULTI-HAZARD RATED!**
- **4-HOUR FIRE RATING:** The SuperVault MH is the first tank on the market to pass the SwRI 95-03 multi-hazard test, the toughest test for aboveground fuel tanks by a nationally certified testing lab. Most tanks are single-hazard rated which means they can withstand a hazard (Fire, Bullet, Impact) one time, but then have to be disposed of carefully. The SuperVault MH has been tested for multiple exposure to fires and other hazards and an extended element exposure test. This means that if the SuperVault MH experiences a hazard, it may be recertified and kept in service rather than having to be replaced. No down time. No fuel loss. No replacement cost. The SuperVault MH. Built to last.
- **PUNCTURE RESISTANCE (BALLISTICS):** The integrity of the primary tank is not endangered by the many bumps and bruises encountered in equipment fueling operations and meets UFC requirements for bullet resistance.
- **HIGH IMPACT RESISTANCE:** The SuperVault MH meets the crash test requirements of UFC Standard A-II-F-1 (also called 79-7). To meet the requirement the tank must be able to withstand the impact of a 12,000 pound battering ram traveling at 10 mph.
- **ADDITIONAL SEISMIC RESTRAINTS NOT REQUIRED:** Built-in supports offer integral anchoring capability.
- **EXTERNAL DIKING NOT REQUIRED BY UFC:** The SuperVault MH outer tank provides 110% of secondary containment.
- **GUARD POSTS NOT REQUIRED BY UFC:** The SuperVault MH tanks meet the impact resistance testing of the Uniform Fire Code.
- **AVAILABLE IN TWO STYLES:** Fuel efficient cylindrical or low profile rectangular.



LEGEND

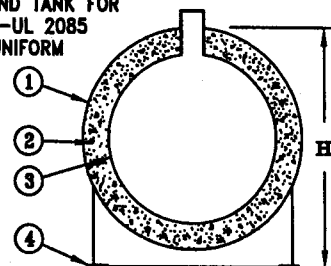
P	Pump
G	Level Gage
V	Normal Vent
PEV	Primary Emer. Vent
F	Fill
MT	Monitor Tube
S	Spare

FEATURES

- ① Fully Listed Double Wall Tank Assembly Multi-Hazard-4 Hour Fire Rated
- ② 6" Thick, Lightweight, Impact and Projectile Resistant Insulating Concrete
- ③ UL 142 Steel Primary & Secondary Containment Tanks
- ④ Integral Supports and Seismic Restraints

• ENTIRE TANK ASSEMBLY IS LISTED AS A MULTI-HAZARD RATED INSULATED AND PROTECTED ABOVEGROUND TANK FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS -UL 2085 PROTECTED, SwRI 95039 93-01, and UNIFORM FIRE CODE STANDARD A-II-F-1*

- Outer steel tank protects the insulation from the harmful effects of the weather and from damage during normal use.
- Lightweight design makes delivery and installation much easier than normal weight concrete tanks.
- Outer steel tank capacity is greater than 110% of the capacity of the primary tank.



MODEL NO.	MINIMUM CAPACITY	PRIMARY TANK		OVERALL LENGTH	OVERALL HEIGHT	APPROX. WEIGHT
		DIAMETER	LENGTH			
MH-D1-250	250	37 1/4	60	6' 3"	4' 7"	3,700
MH-D1-500	500	37 1/4	107	10' 2"	4' 7"	5,400
MH-D1-750	750	37 1/4	160	14' 7"	4' 7"	7,400
MH-D2-500	500	50 5/8	60	6' 3"	5' 9"	5,100
MH-D2-750	750	50 5/8	87	8' 6"	5' 9"	6,500
MH-D2-1000	1,000	50 5/8	116	10' 11"	5' 9"	7,800
MH-D2-1500	1,500	50 5/8	173	15' 8"	5' 9"	10,600
MH-D2-2000	2,000	50 5/8	231	20' 6"	5' 9"	13,500
MH-D3-1000	1,000	64	73	7' 4"	6' 10"	7,600
MH-D3-1500	1,500	64	109	10' 4"	6' 10"	9,700
MH-D3-2000	2,000	64	145	13' 4"	6' 10"	12,000
MH-D3-3000	3,000	64	216	19' 3"	6' 10"	16,400
MH-D3-4000	4,000	64	288	25' 3"	6' 10"	22,600
MH-D4-2000	2,000	82 5/8	87	8' 6"	8' 5"	12,900
MH-D4-3000	3,000	82 5/8	130	12' 1"	8' 5"	16,700
MH-D4-4000	4,000	82 5/8	174	15' 9"	8' 5"	22,160
MH-D4-5000	5,000	82 5/8	216	19' 3"	8' 5"	26,000
MH-D4-6000	6,000	82 5/8	259	22' 10"	8' 5"	29,400
MH-D4-8000	8,000	82 5/8	348	30' 3"	8' 5"	37,300
MH-D4-10000	10,000	82 5/8	440	37' 11"	8' 5"	44,000
MH-D5-6000	6,000	114 5/8	145	13' 4"	11' 1"	28,800
MH-D5-8000	8,000	114 5/8	180	16' 3"	11' 1"	34,800
MH-D5-10000	10,000	114 5/8	230	20' 5"	11' 1"	41,500
MH-D5-12000	12,000	114 5/8	273	24' 0"	11' 1"	48,000
MH-D5-15000	15,000	114 5/8	338	29' 5"	11' 1"	55,600
MH-D5-20000	20,000	114 5/8	449	38' 8"	11' 1"	69,500

Note: - Height minus 4 inches = outside width.

GENERAL INFORMATION for SUPERVAULT MH SERIES MODEL D

- Proprietary design and insulating concrete provide fire protection exceeding the requirements of Uniform Fire Code Test Standard A-II-F-1* for Fire Protected Above Ground Storage Tanks.
- Specially engineered construction protects the insulated primary steel tank from ballistic impact in accordance with Section 77.203(d)(2) of the Uniform Fire Code.
- Outer steel tank is protected from the elements with a high performance industrial epoxy and urethane coating system.
- Integral supports provide 4" ground clearance and seismic anchoring capability.
- All fittings are steel pipe couplings (F.P.T.).
- The monitor tube allows physical monitoring of the outer steel secondary containment tank.
- Dispensing & Storage: Gasoline, Diesel, Ethanol, Methanol, Jet Fuels, Lube Oils
- Waste product storage: Oil, Solvents, Anti-freeze
- Optional fuel dispensing and waste oil equipment packages available
- Optional UL Listed spill containment system available.
- Optional access platform available.
- Meets requirements of NFPA 30 for above ground storage tanks.
- Electronic monitoring capability.
- Environmentally safe.
- No underground storage tank liability insurance required.
- Designed to withstand natural disasters including earthquakes and fires.
- Can be easily relocated.

* UFC Standard A-II-F-1 was formerly known as UFC Standard 79-7.

Specifications subject to change without notice.



modern custom
fabrication

SUPERVAULT™ MH MULTI-HAZARD RATED, PROTECTED TANK

DATE :	REVISION No. :	REVISION DATE :	DRAWING NUMBER
4/12/96	0	6/26/96	8.101