

**21,000 GALLON (500BBL)**

# Insulated Closed-Top Frac Tank

Ironclad Environmental Solutions specializes in insulated frac tanks, which are becoming the new standard for the frac tank industry. This patent-pending insulated tank design allows for field repairability and conversion from insulated to NON-insulated, and back to insulated applications. This tank design utilizes an Expanded Polystyrene (EPS) panel system which has been tested by UL and meets the requirements of the Standard Mechanical Code and the International Mechanical Code.



\*Photos are representational; actual products vary. Additional product plans and specifications may vary from those shown and are subject to in-stock availability.

## Dimensions and Weights

Capacity: 21,000 gal (500 bbl)  
 Height: 11'1"  
 Width: 8'6"  
 Length: 45'9"  
 Tare Weight: 29,900 lbs

## Construction

1/4" carbon steel panels with double-welded seams  
 6x2 channels welded every 4'-0" (+/-) on tank walls and roof  
 6x12 and 4x10 tube frame with lateral braces and gussets  
 EPS insulating panels:  
 -Meet R-16 design criteria  
 -Withstand temperature cycling  
 -Moisture resistant  
 -Recyclable  
 -Will not harm air/ground water  
 -Resists mildew and rot  
 -Comes with some warnings, contact us for additional information

## Specifications

200° 2-part epoxy liner on tank interior  
 Tank coated with an aluminum oxide paint for anti-corrosion, moisture repellent  
 Floor bottom coated for rust-prevention  
 3" fill line  
 Four (4) standard 22" side-hinged manways  
 Multiple 4" valved fill/drain ports, including floor-level valves for low point drain out  
 4" vent with 1 lb pressure / 4 oz. vacuum pressure relief valve  
 Sloped V bottom for quicker drain out easier cleaning  
 One (1) front and one (1) rear 4" valved fill/drain port  
 Easy-to-clean design with smooth wall interior, no corrugations and no internal rods  
 Meets Cal/OSHA guidelines  
 Fixed rear axle for increased maneuverability  
 Nose rail cut-out for easy access when installing hose and fittings on the front/bottom of tank  
 Two (2) top connection ports for vapor recovery  
 Non-slip step materials on stairs and catwalks  
 "Safety yellow" rails and catwalks for high  
 Safe operation reminder decals  
 Safety side stairway—no mechanical guard rails to set up



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## Insulated Closed-Top Frac Tank

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Elapsed Time	Un-Insulated Tank	Temp Drop	EPS Insulated Tank	Temp Drop	Outside Temp
Start	101.0°		104.0°		16.0°
24 Hrs.	63.0°	-38.0°	99.0°	-5.0°	18.0°
48 Hrs.	48.5°	-52.5°	96.5°	-7.5°	36.0°
72 Hrs.	42.0°	-59.0°	95.0°	-9.0°	45.0°

72-hr test results showed that this tank with 104°F water lost only 9.0°F while an un-insulated tank lost 59.0°F.

Outside ambient temp ranged from 0°F to 45°F and was only above 32°F for a total of 10 hrs.

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Tank Detail

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\*Some details not shown in all views. Overall dimensions are normal.

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