

DA-EV TANK

(Patent Pending)



Stop thermal runaway in electric vehicles.

Effective

Prevents thermal runaway in an EV fire. Submerge in water while the battery cells burn out.

Multiple Hinges

The double hinged design allows the tanks to be set up around the vehicle without moving it.

Portable

As folded fits in a pickup truck bed or command vehicle and can be carried to position by two people.

Features

- Aluminum Frame
- 22oz Vinyl walls, 30oz floor skirt
- Two Drain Sleeves w/Rapid Release
- Zipper, Vinyl Closure
- Outriggers for Side-Wall Support
- Skirt weights for fill operations

Specifications

- 24'L x 10'W x 29"H Open
- 5'L x 27"W x 29"H Folded
- 4,000 gallon capacity gross
- 185 lbs

List Price: \$6,147



Operating Instructions

GOAL: Stop thermal runaway and prevent battery re-ignition.

Strategies

Transport the folded tank, outriggers, and floor skirt weights to the fire scene. The system is designed to fit in a standard pick-up truck bed or command vehicle.

Extinguish the primary fire (tires, interior, etc).

Deploy the tank around the vehicle. The system is designed to work in confined areas such as parking spaces.

Fill with water to at least to the depth which submerges the battery case.

Maintain the water level to absorb heat from actively burning batteries. Keep submerged until the batteries are stable and not at risk of re-igniting.

Drain and re-fold for future use.

Tactics

During transport, keep the ends tied together to prevent the frame tank from opening. Rope lengths are supplied.

All steps to deploy are done from outside the tank. This keeps you safely away from a hot vehicle.

Before filling, make sure the fabric walls are not pinched under the bottom frame rail, ensure the floor skirt is reasonably flat, secure the drain sleeves in the Rapid Release clamp, and install the 4 outriggers on the outward flexing hinges on each long wall.

While filling, the floor skirt will be affected by direct water streams and turbulence. Add the skirt weights where needed. Expect leakage to slow significantly as the water depth increases. Expect minor water leakage around pavement cracks or joints. Even on gravel, leakage is manageable.

During soak time, replenish water loss with a low-pressure line such as a 2-1/2" line connected to a supply line holder set at 20psi. Add water as needed. Expect to add a burst of water every 15 minutes on flat pavement.

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How It Works – Setup & Fill

What to expect:

1. The floor flanges will seal after 6"-12" of water is added. The seal effectiveness during the fill operation depends on turbulence and the underlying surface. Add frame weights in areas as needed during the fill operation.
2. The tank will leak. Additional water is required to maintain the desired level. Even on gravel the amount of refill water is minimal.

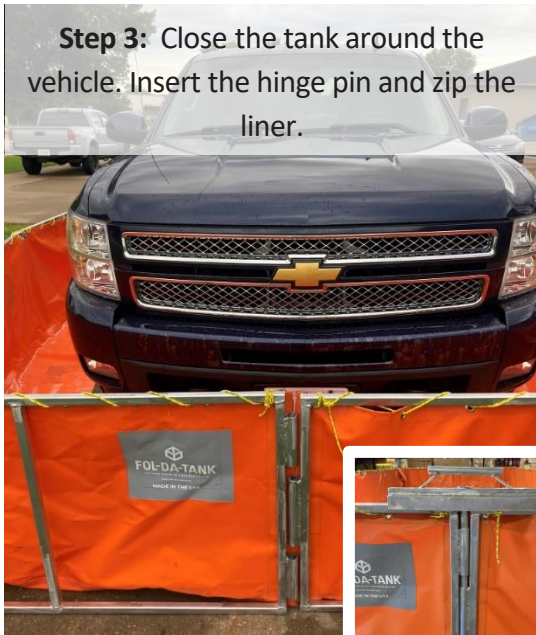
Step 1: Set the tank at the end of the vehicle.



Step 2: Open the tank around the vehicle.



Step 3: Close the tank around the vehicle. Insert the hinge pin and zip the liner.



Step 4: Set up the outriggers.



Step 5: Fill the tank.



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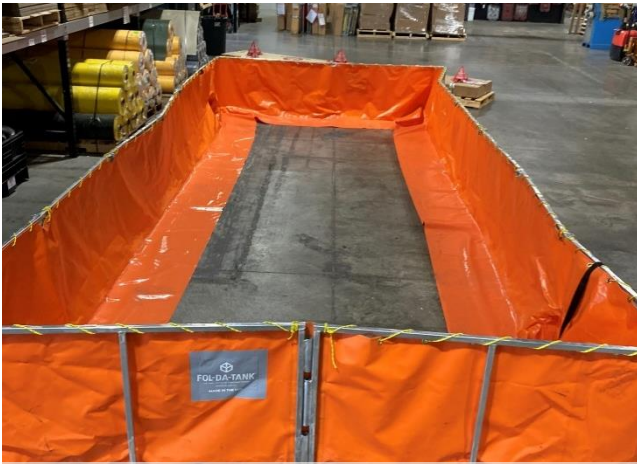
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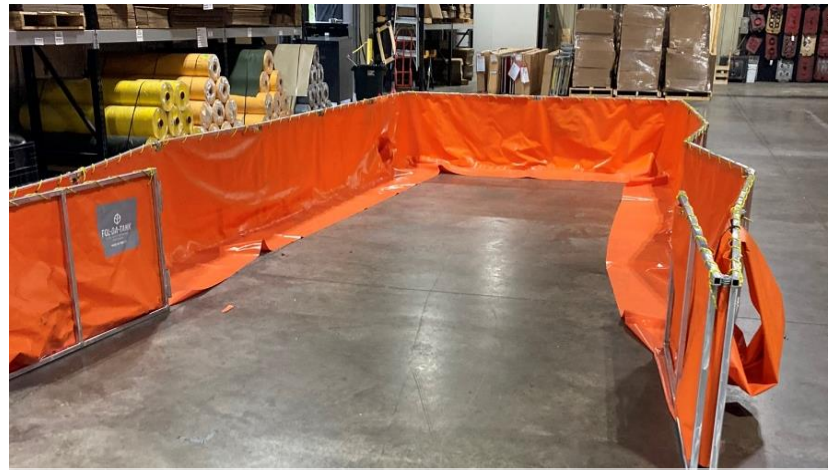
How It Works – Folding

What to expect:

1. Multiple folds are required after removing the hinge pin and unzipping the hinge joint.
2. The hinges are set alternately, so there is no folding backwards.



Step 1: Pull the hinge pin and un-zip the liner joint. Remove the skirt weights and outriggers.



Step 2: Fold the end sections inward.



Step 3: Fold alternating sections. Ensure the fabric is not wrapped in the hinges.



Step 5: Fold the far end wall. Rope-tie the ends.



Step 4: Line up the folded side wall sections