

EV Firefighting Water Submersion System

Submersion Pool For Electric Vehicle Fires

With the number of electric vehicles on the roads growing, so is the inevitable risk of EV fires.

Because of the difficulty in fighting EV fires, even trained firefighters spend hours, and thousands of gallons of water putting out an EV fire.

Furthermore, water used in fighting EV fires is often contaminated and finds its way into storm drains, sewers, or surrounding properties.

Even once a fire is out, the chance of re-ignition of the lithium battery is high, due to stranded energy. As a result, there have been many situations where tow trucks towing burned electric vehicles find themselves on fire due to re-ignition of the battery.

Cars moved to scrap yards have also re-ignited, sometimes hours, or even days, after the original fire event.

To help firefighters deal with EV fires, Garrison Flood Control has developed the Mayim™ EV Firefighting Water Pool Kit, an easy to deploy series of interlocking barriers that create a sealed area, or pool, that can be filled with water. As the water rises, the EV's battery is submerged.



Surround electric vehicle fires by submerging the lithium battery to extinguish fires more quickly.

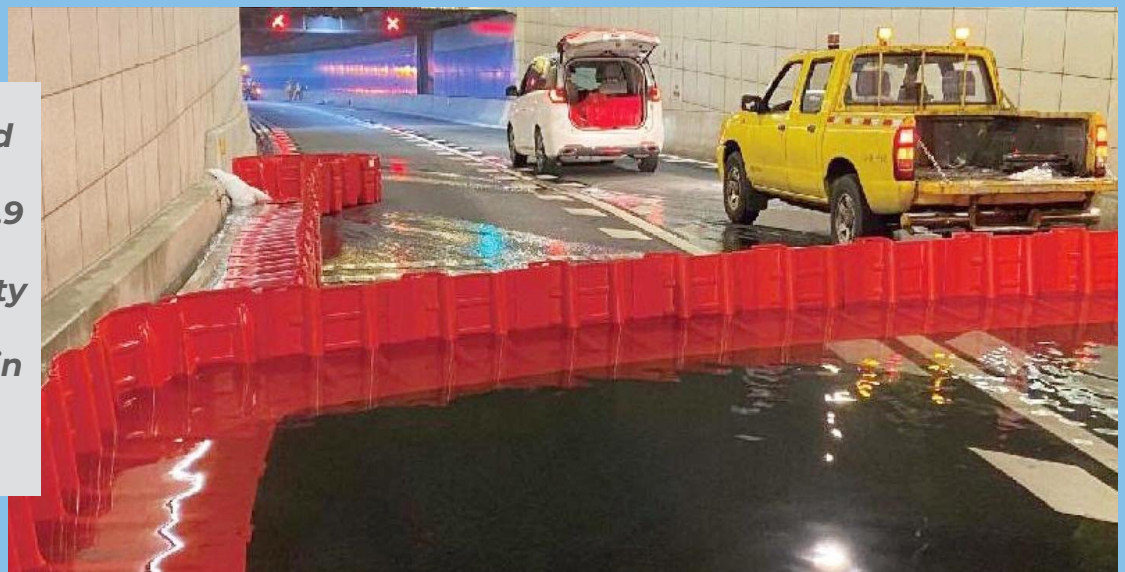
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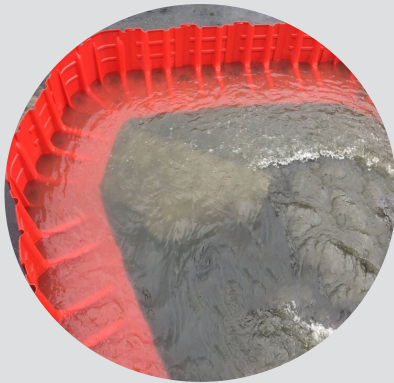
Interlocking panels are stored on a trailer or on a firetruck, ready for deployment around the perimeter of an EV fire. Firefighters can then flood the pool with water and foam, helping to submerge the vehicle, particularly its battery. This helps extinguish the fire faster and more comprehensively, as the car becomes submerged in water.

When the EV fire is deemed to be put out, contaminated water can be drained through an integrated 2" fire hose coupling in one of the panels.

As some EV fires spew fire out of vents in the lithium battery, each kit includes two fiberglass fire blankets, that are placed in front of panels that may be exposed to flames, protecting them against damage, until the water level rises to flood the battery.

***Car fires caused
an estimated \$1.9
Billion in property
damage losses in
the U.S.***





EV Submersion Pools Deploy Quickly

Bring Mayim™ Barriers to emergency site and deploy around an EV fire, creating a seal perimeter that is flooded with water or foam. Includes fire retardant fiberglass blankets to protect panel sections being hit by batter vent flames.



Lithium Batteries Submerged

Once the perimeter is installed, the Mayim submersion pool can be filled to 20" (or 30" for the heavy-duty version), submerging the lithium battery under water and helping to extinguish the fire quickly, more efficiently and with less water



Stores Compactly When Not In Use

The Mayim™ Barrier is lightweight and stores compactly. Keep your EV Firefighting Kit on a trailer or fire truck, ready to deploy around an EV fire. When the fire is extinguished, hose down and stack panels for future use.

Speed of Deployment



A typical EV pool would utilize 40-50 straight sections and 12 corner pieces to create a 4-sided pool around a vehicle fire, however, some scenarios require terminating the barrier against a fixed wall such as an adjacent building.

A full-sized deployment would take 3-4 firefighters 15-20 minutes, assuming there is access to the burning vehicle and the barriers can be brought near to the site for placement.

The panel barriers are most vulnerable before the pool is filled and it is recommended to use in conjunction with a steady stream of water, to protect barrier sections that may be exposed to flames during installation.



Each EV Firefighting Kit Includes:

- 50ea Mayim Barrier Straight sections (20" tall) – To create a perimeter of 100ft
- 12ea Mayim Barrier Inward Curve sections – To create 4 corners
- 1 Fire Hose Coupling – Integrated into 1 of the Straight Mayim sections above
- 2 End Gables – To abut to fixed building or walls to create a seal
- 2 Fiberglass fire retardant blankets

** Less sections may be deployed for smaller vehicles & more for larger vehicles.*

The Mayim EV Pool Kit includes enough barriers to provide a superior perimeter enclosure, with clearance to the aflame vehicle. The kit is sized to provide sufficient sections to surround most electric vehicles, including Tesla's, Rivian's, Ford Mustang's, and Chevy Volt's.

**Mayim could also be used to redirect water for standard fires.*

Total Cost: \$8,670.00

Mayim™ Is Used For A Variety Of Flood Emergencies & Applications

When it comes to flooding, there is no limit to vulnerable spaces that require protection. Mayim acts as a portable flood barrier, assisting in protecting a variety of sites and applications:

- Flooding & Emergency Response
- Property Management & Real Estate
- Home & Office Building Perimeter Protection
- Loading Dock & Warehouse Entryways
- Public Transportation & Municipal Buildings
- City & Regional Flood Planning & Preparedness
- Parklands & Public Access Areas
- Power Plants & Electrical Substations
- Agricultural Operations & Field Protection
- Server & Technology Centers
- Streets, Roadways & Critical Infrastructure
- Museums, Schools, Hospitals & Public Assembly Facilities

One System, Hundreds of Applications!



Protect



Block



Prepare

PREPARE WITH THE MAYIM™ BARRIER

Always have a complete solution on hand
for emergencies and protection



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