

FOGMAKER

I N T E R N A T I O N A L A B

The World's Most Trusted Fire Suppression for Buses and Coaches



Pure Performance with Triple Action

Fire Suppression for Battery Electric Buses

Fogmaker's New Fire Suppression Technology for Battery Electric Buses

Battery electric buses (BEBs) are transforming public transport. Yet, alongside their environmental and operational benefits lies a critical challenge: fire safety.

The risk of battery fires is often described in terms of probability. But risk is not just about how likely an event is - it is also about its consequences. While the probability of a thermal runaway is low, the consequences when it does occur are brutal and devastating.

Some incidents highlight this reality. On April 4th, 2022, a BEB in Paris caught fire. The driver evacuated 14 passengers within 20–30 seconds. Just 30–45 seconds after the first signs of fire, the bus was completely engulfed in flames. Only weeks later, on April 29th, a second Paris BEB fire escalated even faster - from initial smoke to full ignition in just 17 seconds. In that case no passengers were on board, but the incident underscored the razor-thin margin for evacuation.

Evacuating a full bus typically takes 1.5–2.5 minutes, depending on vehicle size and passenger profile. This gap between available time and required time is the central safety challenge for BEBs - especially for coaches operating at highway speeds or with sleeping passengers.

Fogmaker Closes this Safety Gap

Fogmaker's new Sectioning Deployment Valve delivers targeted suppression to multiple critical compartments from a single fire suppression unit. Once a fire is detected, suppression is directed immediately to the affected zone.

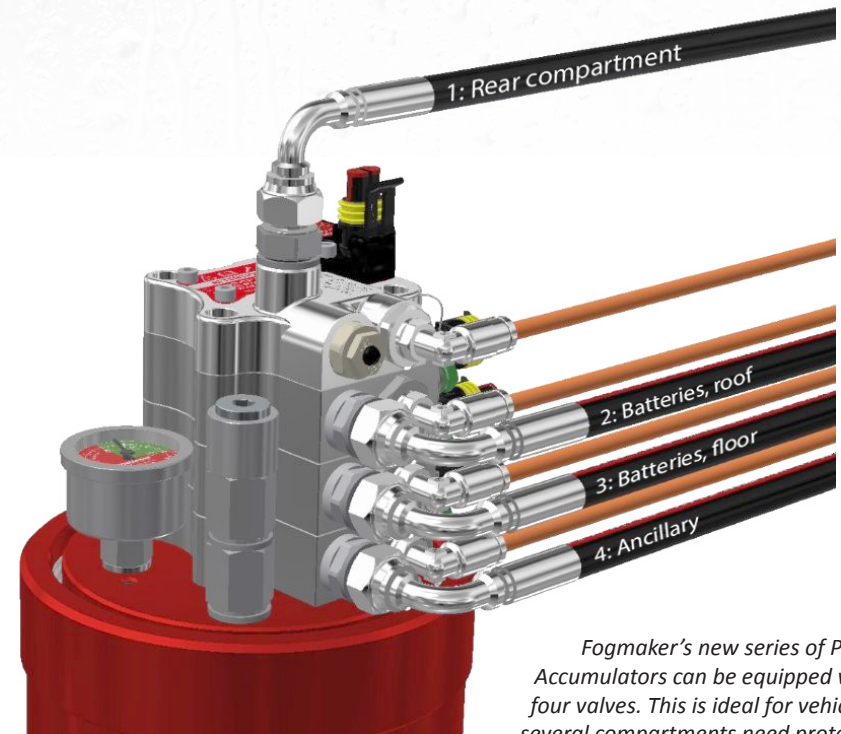
From just one Fogmaker suppression cylinder, two minutes of sustained suppression in a battery compartment can be achieved. Adding a second unit doubles this window to four minutes - precious time for passengers to evacuate before conditions escalate beyond control.



The system deploys high-pressure water mist at 105 bar, combined with a PFAS-free foam additive and potassium salts. This unique formula rapidly cools extreme heat, disrupts the chemical chain reaction of combustion, and displaces oxygen through steam expansion. Unlike conventional solutions, Fogmaker is fully independent of the vehicle's power supply, ensuring reliability even in a total electrical shutdown.

Fogmaker Sectioning Valve: a Game-Changer for the Bus and Coach Industry

Fogmaker's Sectioning Deployment Valve is more than technology - it is peace of mind. By bridging the gap between fire onset and safe evacuation, it enables operators, regulators, and insurers to move forward with confidence in the BEV era.



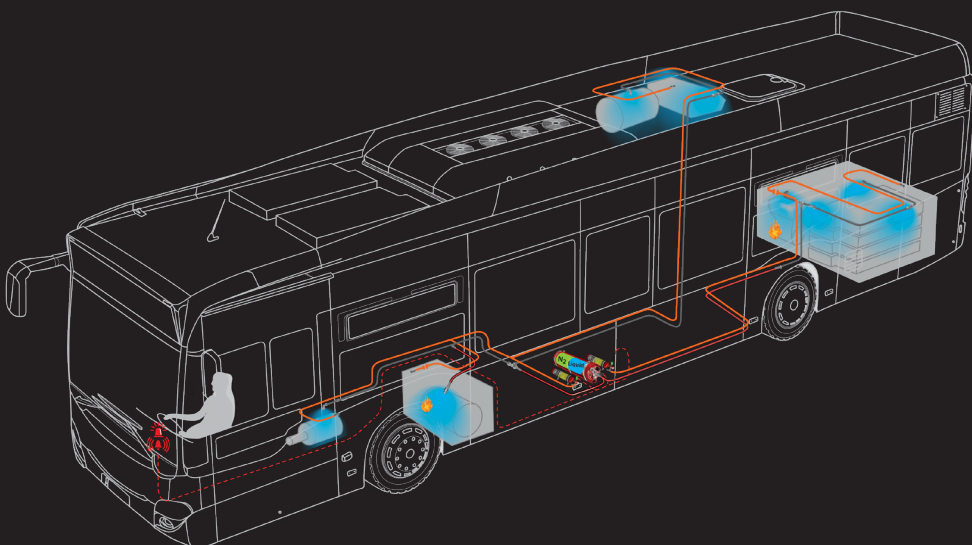
Fogmaker's new series of Piston Accumulators can be equipped with up to four valves. This is ideal for vehicles where several compartments need protection, such as electric buses.

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About Fogmaker International

- With more than 30 years experience, Fogmaker International has delivered almost 400,000 fire suppression systems worldwide.
- Headquartered in Växjö, Sweden, we are fully dedicated to the development and manufacturing of automatic fire suppression systems for vehicles.
- Fogmaker operates globally, with subsidiaries in Brazil, Finland, and Southeast Asia (Bangkok), supported by distributors and service partners in more than 70 countries.
- Certified to IATF 16949, Fogmaker ensures the highest standards of quality and reliability. Our system carries product certificates from leading authorities, including UNECE, Australian Standard, and Factory Mutual, making it one of the most certified fire suppression systems in the world.
- Trusted by several of the world's leading bus and coach OEMs, Fogmaker continues to set the benchmark for vehicle fire safety.



FOGMAKER
INTERNATIONAL AB

Sandvägen 4
SE-352 45 Växjö
Sweden

Tel +46 470-77 22 00
Fax +46 470-77 22 10
info@fogmaker.com
www.fogmaker.com

