

**AVL**

## AVL Stingray One

Highly effective extinguishing system brings burning vehicle batteries safely, efficiently, and quickly under control in e.g. an accident or during charging

### THE CHALLENGE

These days, we can see a number of battery electric vehicles (BEV) on the streets. In the near future, they will become even more. When the battery of a BEV is damaged in an accident, a thermal runaway and overheating of the battery will occur, ultimately causing the entire vehicle to catch fire. Battery problems can also happen while charging at charging stations or simply while parked in a parking garage. In all these situations, the fire cannot be easily fought by using standard extinguishing methods.

### THE AVL SOLUTION

With the new system AVL Stingray One, vehicle batteries are extinguished and brought under thermal control safely, efficiently and quickly. The system directly cools the cells within the battery and thereby quickly stops the chain

reaction (thermal runaway) of the battery cells. The revolutionary system is characterized by its simple operation and handling. AVL Stingray One delivers the extinguishing water precisely to where it cools most effectively and fights the fire at the point of origin.

### THE ADDED VALUE

- Revolutionary battery extinguishing system to allow safe rescue of people in case of accidents
- Cooling down of the battery in the shortest period of time by directly injecting the battery through the battery housing
- Small, compact and adoptable system suitable for various operations
- Easy to handle and mobile system solution
- Consumes minimum amount of water because it strikes at the exact source of the fire



This solution perfectly meets today's and future requirements for BEV's such as:

- Higher safety for the emergency staff in case of accidents
- Safeguarding of charging areas with fastest extinguishing system directly at the location
- Allowing vehicles to enter underground parking lots with extinguishing system at the location

AVL Stingray One is a new and unique battery extinguishing system. It consists of the following main parts:

- Punch unit that opens the battery to access the cooling fluid
- Pressure unit capable of striking the battery with its sharp blade to cut open the battery's metal casing and reveal the core
- Gas bottle with a pump for pressing the penetration unit into the battery
- Control unit to activate manually at the desired time the piercing of the battery

#### TECHNICAL DETAILS

Weight	20 kg
Size	1,200 mm high
Extinguishing agent	Water
Solution	Mobile hand held
Water supply	Storz C coupling
Special feature	Trigger from a safe distance

