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FIRE GUIDE

Österreich .2021

*Der Branchenkatalog
für Feuerwehrprodukte sowie
Brand- & Katastrophenschutz*



**Ein Sturm
an Innovationen**



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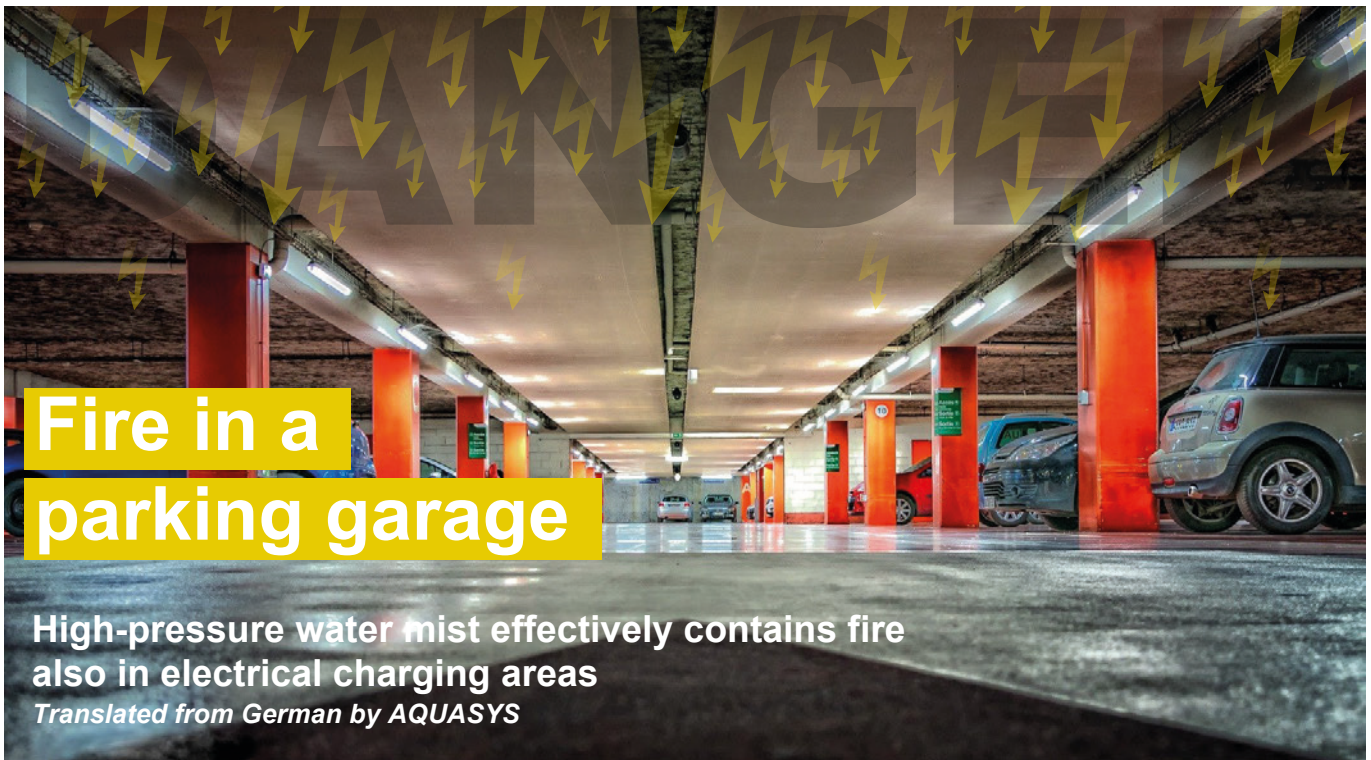
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Fire in a parking garage

High-pressure water mist effectively contains fire also in electrical charging areas

Translated from German by AQUASYS

In modern parking garages, the number of electric charging stations and parked e-cars, e-scooters and e-bikes is constantly increasing. In the event of a fire, this means that in addition to vehicles fuelled with fossil fuels, vehicles with lithium-ion batteries are increasingly to be considered as a source of fire.

Fires involving electric vehicles are more complicated than those involving conventionally powered vehicles. Due to chemical processes, a battery fire cannot be extinguished. The approach to firefighting is therefore a controlled release of energy from a battery that has caught fire. For this purpose, the burning vehicle needs to be cooled until the energy from the charged batteries is completely released. This is increasingly relevant in the safety concept of the operators, because in the event of a fire the primary goal of any fire-fighting operation is to protect the supporting building structure and to contain the fire until the emergency services arrive.

The task for the emergency services in the case of a fire involving e-cars is usually to move the object out of the garage into the open area and cool it there, in a water tank for example. However, this presumes that the fire spread is prevented until the arrival of the emergency teams and that the ambient conditions allow the forces to advance. Therefore, in order to reduce smoke and heat spread, cooling is necessary to be continuous. Even after the arrival of the emergency forces and after the minimum prescribed spraying time has passed, the fire-fighting system should remain functional. Sufficient automatic water supply or storage of fire-fighting water is essential in this case.

Water-saving spraying technology - Functional principle

High-pressure water mist systems (HPWM systems) score points when it comes to creating safe and efficient fire-fighting solutions based on innovative and water-saving spraying technology. The outstanding effect of HPWM relies on pure water, which is atomised by specially designed nozzles to form a very fine mist with a droplet size of 50 to 200 µm. Due to the high temperatures near to the fire, the water mist suspended in the room begins to evaporate and cools the fire site. Expressed in figures, this means that an energy of 2.26 MJ is extracted from the fire when one litre of water evaporates per second.



Due to the room-filling effect and the permanent feed of new droplets, this results not only in a massive cooling effect but also in a very good shielding of the heat radiation and thus an insulation of the fire. The AQUASYS system also ensures, that the fire-fighting system remains functional even under enormous heat radiation, thanks to the use of high-quality materials. Stainless steel nozzles and piping system and a pipe connection system that even withstands temperatures of up to 1200°C make sure of this.

On-time planning

The HPWM fire-fighting system from AQUASYS is adapted to the unique on-site situation for each application. The planning criteria for this primarily results from fire tests that are carried out using standardised scenarios for real fire tests car parks. These standards as well as further individually planned and performed fire tests with conventionally and electrically operated vehicles in parking areas or in test cells deliver valuable information for the design of an HPWM system. The earlier the structural requirements are taken into consideration, the more efficiently the system can be planned.

Das HDWN-Brandbekämpfungssystem wirkt primär auf das Feuer und nur indirekt auf das Brandgut

Summary

HPWM systems produce a fine water mist and require very little water, while at the same time providing highly efficient cooling and fire fighting. Smoke and toxic gases are washed out of the air. Although the system does not replace a smoke extraction system, it ensures a survivable atmosphere even close to the centre of the fire. AQUASYS HPWM systems are considered very durable due to the exclusive use of stainless steel, require little maintenance and are easy to extend to protect new or larger areas if necessary. HPWM systems have proven to be a reliable firefighting technology in recent years. In this context, fire tests were carried out using a customised test specification for vehicle fires in a fire hall with a total volume of approximately 370 m³. The test confirmed that the HPWM optimally cooled the environment and efficiently prevented the flames from spreading to the entire vehicle or to adjacent vehicles.

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