



**NEW:**  
VdS approval  
for parking garages  
with a ceiling height  
of up to 3.6 m

# Minifog EconAqua

## Water Mist Sprinkler Systems

### Extended application areas

Parking garages and underground car parks with ceiling heights of up to 3.6 m can now be protected with the VdS-approved EconAqua low-pressure water mist system thanks to the new EconAqua Water Mist Sprinkler U16.

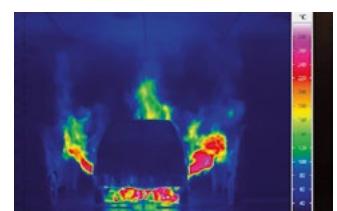
### Advantages at a glance

- VdS-approved low-pressure water mist system with the widest application area on the market
- More efficient use of extinguishing water and reduced amounts of water damage
- Also suitable for use in frost-prone areas as a dry pipe system
- Smaller nominal pipe widths require less space for installation
- Certified in line with VdS 3883-4 and prEN 14972-5 test protocols

### Efficacy confirmed – VdS-certified

The effectiveness of the new EconAqua U16 sprinkler has been verified with a range of extensive fire tests under the supervision of VdS Schadenverhütung. They were carried out at the Minimax Fire Research Center based on current VdS and EN requirements. In the test setup for a typical parking garage situation, the effectiveness of EconAqua was compared to a conventional dry sprinkler system as per VdS CEA 4001 (including a safety margin).

The EconAqua system successfully passed the fire tests. Furthermore, it was verified that the EconAqua low-pressure water mist system provides the same fire protection as conventional sprinkler systems but at a lower water consumption, thus offering a higher efficiency.



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*Conventional sprinkler*



*EconAqua sprinkler*

## Less damage from extinguishing water

Water mist systems emit a very fine spray of extinguishing water through special water mist nozzles with increased operating pressure. The total surface of the water is increased so that it can absorb heat and evaporate more quickly. The associated cooling and smothering effect enables particularly effective fire fighting, yet uses up to 85 percent less extinguishing water. The very low quantity of extinguishing water used means that potential water damage is reduced to a minimum.

**Minifog EconAqua** is particularly suitable for structures, in which damage from extinguishing water must be avoided, where there is a particular lack of space, or if the direct connection of a conventional sprinkler system to the drinking water supply is not possible.

## Suitable for frost-prone areas

Minifog EconAqua water mist sprinkler systems can also be used to protect parking garages with frost-endangered areas without the need for expensive pipe trace heating or frost protection.

## Saving space

Compared to conventional sprinkler systems, Minifog EconAqua systems can boast significant space-saving capabilities due to low pipe diameters, significantly reduced space requirements for the water supply, and more compact sprinkler pump rooms, as well as smaller nominal pipe widths. In many existing structures, the retrofitting of a fire suppression system is only possible with Minifog EconAqua.

## Typical application areas

- Office and administrative buildings
- Public buildings / railway stations / restaurants
- Hospitals / care facilities
- Museums / libraries / churches
- Hotels / apartment buildings
- Parking garages and underground car parks with ceiling heights of up to 3.6 m
- Escape routes