





Water Mist Systems for Commercial and Industrial Applications

Efficient low pressure technology to protect people, assets and the environment





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Tested and approved

The outstanding suitability of EconAqua and ProCon has been documented through extensive fire tests and research. For commercial and industrial risks, approvals are obtained through 3rd party laboratories in accordance with recognised international standards and specifications. For example, VdS. EconAqua has been tested in accordance with EN 14972.

Benefits of EconAqua low pressure water mist

- · Lower cost than high pressure alternatives
- Smaller tanks for stored water mean lower metering costs
- Because of the lower water flow during system activation, smaller pumps optimize energy performance
- Smaller pipe diameters mean less material usage
- In the case of a fire, the lower water consumption of water mist systems means less water damage and reduced downtime, reducing the risk of business interruption significantly



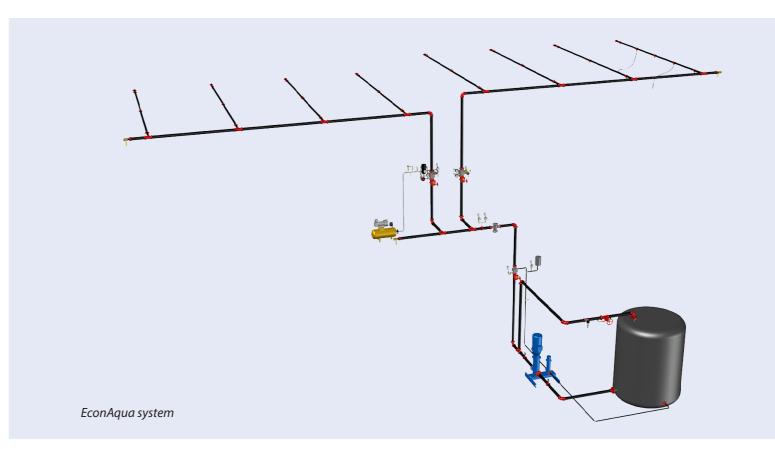
Low pressure water mist systems produce much smaller droplets of water than a traditional sprinkler system. These smaller droplets are still able to cool down the fire and control its growth. Low pressure water mist can bring financial, environmental and operational benefits to building owners and fire protection specifiers.

Water mist technology utilizes the physical properties of water more efficiently than classic water fire suppression systems. The water is emitted through special nozzles and sprinklers as a very fine spray under increased operating pressures. The result is a larger total surface of the water, allowing it to absorb heat and to evaporate more quickly. The cooling and smothering effect allows for particularly effective firefighting using a minimum amount of water.

Viking provides two types of low pressure water mist systems: EconAqua for commercial buildings and ProCon for industrial risks.

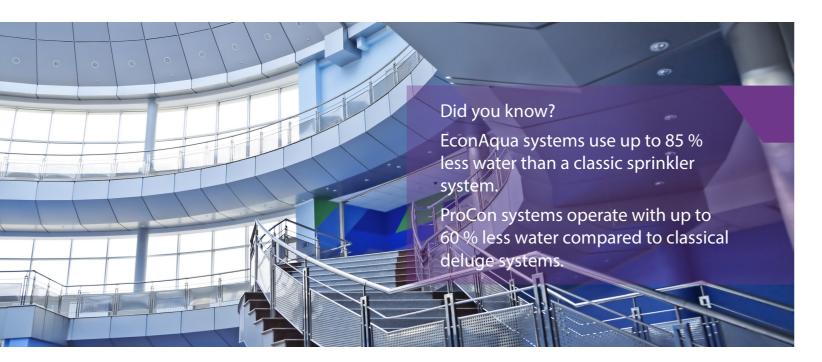
The **EconAqua** series uses innovative low pressure water mist technology to offer a very efficient way of firefighting in office buildings, hotels, underground car parks and in buildings with similar fire hazard profiles. People, assets and the environment are protected 24/7.

The **ProCon** series also adopts low pressure technology. The systems are flexible enough to tackle many severe fire risks, including conveyor belts, diesel emergency power generators, machinery spaces, non enclosed equipment such as steam turbines and generators, cable trays, ducts and cable distribution rooms.



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For 100 years the name Viking has represented global leadership in fire protection. We lead the industry in quality and innovation because fire protection is all we do, and our single focus is to support and enhance the efforts of independent fire sprinkler contractors. We believe that protecting people and property from fire transcends the bottom line, and we never stop asking "what do our customers need to be successful?" Our water mist EconAqua and ProCon series keep within that company ethos.

Low pressure water mist systems can be used in various applications and cover several fire hazard classes.

These systems are most beneficial when limited water is available, either through lack of available supply or where the end-user is concerned about the environmental impact of water usage. Low pressure water mist systems are also beneficial for areas where the user is concerned about any potential water damage in sensitive or high-value areas.

Commercial applications



Offices need to be equipped to properly contain a fire situation. High rise buildings pose unique problems for fire fighters. EconAqua systems control fire growth to assist with occupant exit and the safety of the rescue services attending the fire. EconAqua concealed nozzles offer architects aesthetically pleasing solutions to the more conventional exposed water mist nozzles. Smaller pipe diameters ensure space in ceiling voids is kept to a minimum.



More and more car parks are being built under sleeping areas, An EconAqua system tested to the latest car park protocol offers the best security needed to ensure these high risk areas areas are protected. EconAqua dry systems ensure that freezing pipe in unheated areas is never a problem.



Note regarding applications: Always consult the technical documentation and approvals for your project-specific usage requirements.



Owners and operators of hotels need to ensure that the safety of their guests is paramount at all times. EconAqua sidewall sprinklers are specially designed with hotel rooms in mind, they offer discreet protection to sleeping areas. Pendent sprinklers ensure corridors and other public areas are protected to ensure a safe escape in the event of a fire.



With the growing reliance on processing data, reliability and operational continuity has taken center stage. Water mist is an essential element of risk mitigation. Viking EconAqua is available as a preaction system or preaction sprinkler for added safety in the unlikely event of a system release. Dry pipework and closed nozzles result in only the activated heads discharging over the fire.

Industrial applications



Conveyor fires can can cause huge amounts of disruption to any manufacturing process. Downtime costs business and subsequently there is always a knock on effect in the supply chain. Conveyor protection with open nozzles along with flame detectors and deluge valves, reduce the risk of a fire growing out of control and limit the risk associated with a complete conveyor loss.



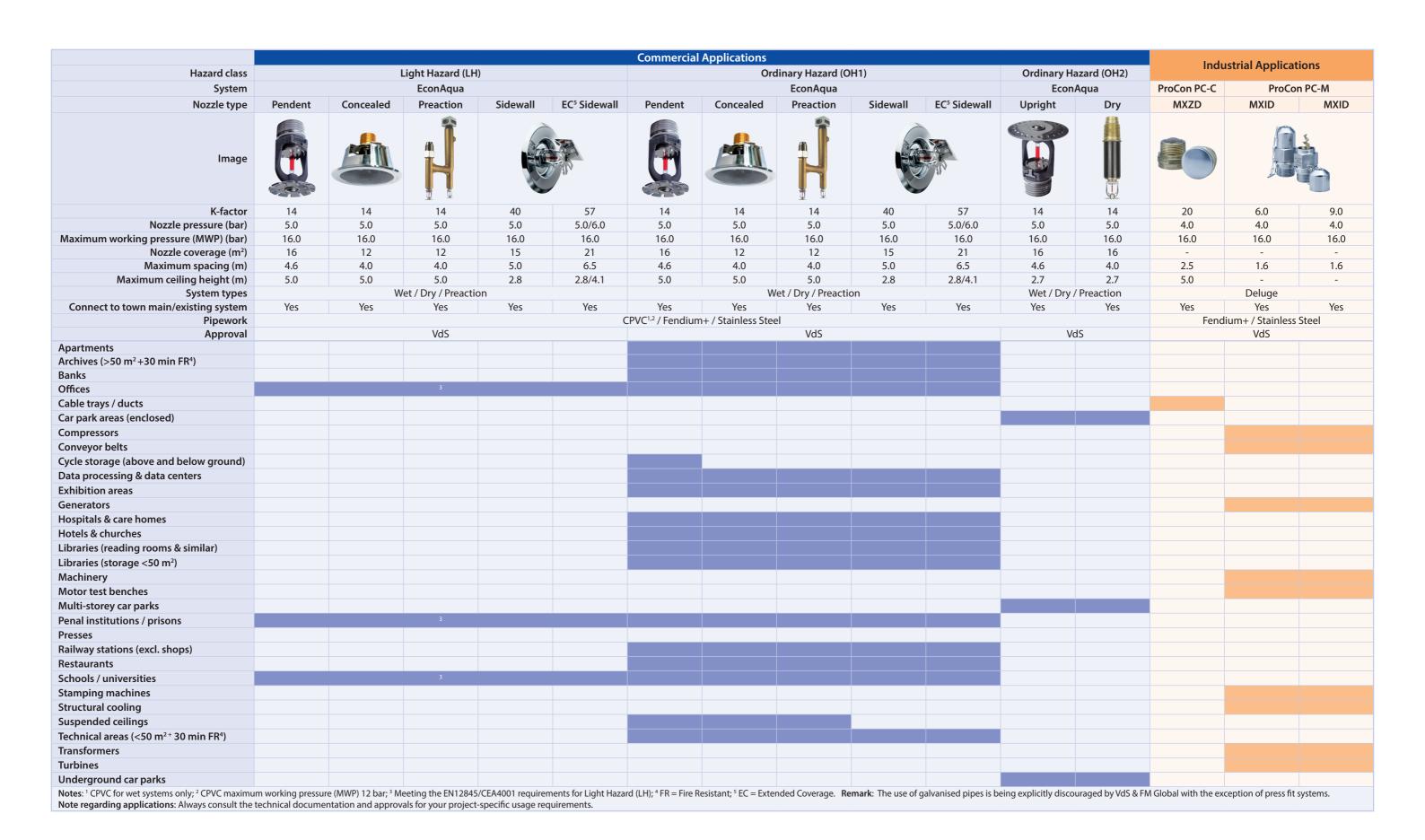
Slow burning, smoldering fires can be a challenge to protect with conventional systems. ProCon PC-C nozzles offer the perfect solution to protect cable trays and electrical rooms



Generator and turbine fires can cause untold damage to the environment and infrastructure they feed. Loss of power can effect manufacturing processes and power generation. ProCon deluge protection, locally or in a machinery space, can reduce the

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For further information, please contact your local Viking sales office or refer to the technical documentation

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