



MicroDrop®

“Safeguarding hotel occupancy rates from the threat of fire and smoke damage”

The Challenge

Hotel and leisure complexes have to maximise “Business Continuity” and room and facility occupancy rates to retain their competitive edge and ensure their survival in a highly competitive industry.

Thankfully, fires in hotels and leisure complexes are not a regular occurrence. However, when they do occur, they pose a significant risk to human life, property and ongoing business operations, particularly in high-rise hotel situations.

MicroDrop® really comes into its own for hotel and leisure groups who are constantly looking for faster re-instatement of hotel rooms and leisure facilities after the effects of a fire so that they can retain their competitive edge.

What attracts hotel and leisure group operators to Tyco’s MicroDrop® HPWM system is the fact that in the event of a fire, the system produces only small amounts of residual water. Rooms and areas involved in fires protected by Tyco’s MicroDrop® system can be put back into service far quicker than those protected by conventional sprinkler systems.

However, don’t take our word for it. Our MicroDrop® Hotel & Leisure “Fast Facts” illustrated overleaf, speak for themselves.



The intelligent use of water...

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Fire & Integrated Solutions

MicroDrop®

MicroDrop® Hotel & Leisure “Fast Facts”

- Specially designed MicroDrop® glass bulb nozzles use less water and requires fewer nozzles than any other HPWM system. This ensures cost efficient system design and reduced installation time.
- Rapidly “Knocks Down” smoke formation to increase visibility and reduce smoke permeation into other hotel areas. This factor significantly improves hotel tenability.
- No “Post Fire” contamination or environmental issues. MicroDrop® does not use or require performance enhancing additives (foam etc. to fight fires).
- MicroDrop’s minimal use of water results in less clean up time and faster re-instatement of the working environment.
- No moving parts in the MicroDrop® nozzles ensure cheaper life cycle maintenance costs and higher reliability.
- MicroDrop® Pump systems have a smaller footprint than other conventionally designed HPWM pumps. This eliminates the need for large tanks and pumps and maximises efficient floor space use.
- The design efficiency of the MicroDrop® Pump system is more economical to maintain than other conventionally designed HPWM pumps and therefore reduces life cycle maintenance costs.

The MicroDrop® nozzles are fitted into a distribution network of stainless steel pipework. In the event of a fire, only the nozzle closest to the seat of the fire operates to discharge high pressure water mist into the fire in a pre-determined spray pattern.

The water supply to the nozzles is fed from either a high pressure 100 - 120 bar pump and small water storage tank or a bank of cylinders.



MicroDrop® High pressure water mist has a dramatic effect on fire. As the size of the water droplets are so small, they are lighter and remain airborne longer than conventional water based systems.

The micro droplets also provide a much larger surface area that enables the discharged water to more effectively cool and knock down the fire to a controllable size.

A very important aspect of hotel garage parking and emergency power generator protection is the ability of MicroDrop® to provide a level of smoke scrubbing removing some of the toxic substances from the combustion of fire. This feature also helps to protect personnel and sensitive equipment close to the fire from contamination.

MicroDrop® Hotel Applications at a glance

- Guest bedrooms and leisure facilities
- Public access areas
- Restaurant kitchens & cafeterias
- Generators, boiler rooms and UPS (Un-interrupted Power Supply) areas
- Laundry ducts and storage rooms
- EDP rooms
- Underground garage parking areas

For further information contact your local Tyco Fire & Integrated Solutions office on: tfis.microdrop.uk@tycoint.com or visit our website at www.tycofis.co.uk

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