



## MicroDrop®

*“Removing fire vulnerability for Internet Service Providers and the Telecomms Industry”*

### The Challenge

Internet Service Providers (ISPs) and Telecomms companies are only as good as the service they provide therefore, high reliability is a key factor. Their core objective is to provide the highest level of "customer satisfaction". This ensures customer loyalty and retention.

The threat of fire could have a serious impact on business continuity. To date, numerous leading U.K. ISP organisations such as Hutchinson 3G, Global Switch and SERVO have turned to Tyco Fire & Integrated Solutions to protect their assets.

Where the ISP and Telecomms fire management strategy has selected watermist as the preferred fire fighting system option, Tyco Fire & Integrated Solutions has installed high pressure water mist systems such as specially designed MicroDrop® sealed bulb nozzles to meet the specialised needs of the ISP industry.

However, don't take our word for it. Our MicroDrop® ISP and Telecomms "Fast Facts" illustrated overleaf, speak for themselves.



*The intelligent use of water...*

**tyco**

*Fire & Integrated  
Solutions*

## COMMUNICATIONS

# MicroDrop®

## MicroDrop® ISP “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.
- No moving parts in the MicroDrop® nozzles ensure cheaper life cycle maintenance costs and higher reliability.
- 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.
- 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.



In some cases, MicroDrop® nozzles may be required to be integrated into either an addressable/analogue fire detection system or a VESDA system or in some instances, even both types of system. This highly sophisticated system will not discharge high pressure water mist into the distribution pipework in readiness for a fire situation, unless two or more detector devices detect a fire in it’s very early incipient stages and send a fire alarm signal to the main control panel. This provides IT staff with sufficient time to investigate the cause of the initiated VESDA fire alarm and probably prevent a small fire from becoming a large one in the first place.



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 ISP Room 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 helps to protect personnel and sensitive equipment close to the fire from contamination.

### MicroDrop® ISP Applications at a glance

- ISP Rooms
- Public access areas
- Kitchens & Cafeterias
- Generators, Boiler Rooms and UPS (Un-interrupted Power Supply) areas

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

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