



MIST SPRINKLER SPECIALISTS

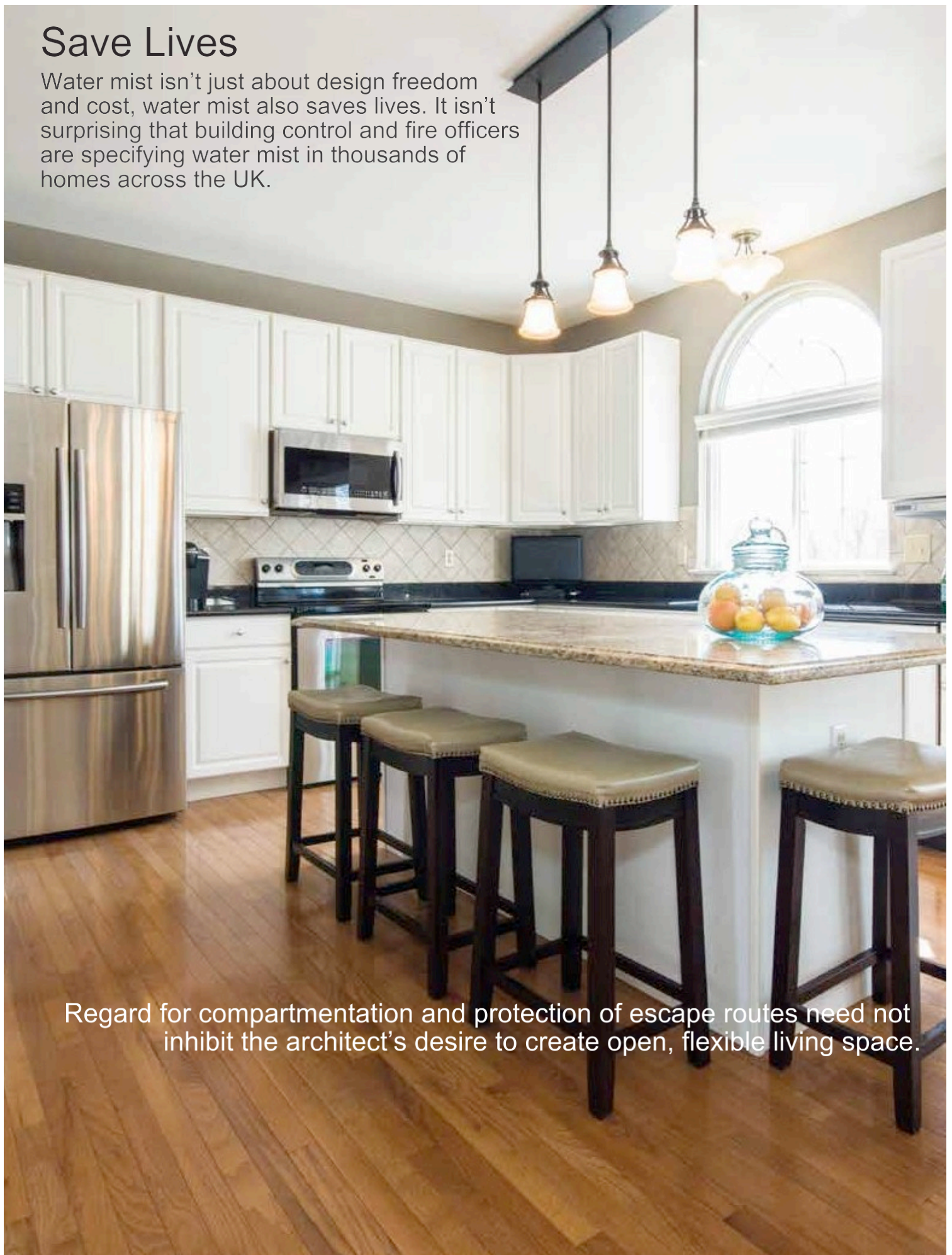
“The next generation sprinkler system.”



nphsltd.co.uk:
0800 505 3225

Save Lives

Water mist isn't just about design freedom and cost, water mist also saves lives. It isn't surprising that building control and fire officers are specifying water mist in thousands of homes across the UK.



Regard for compartmentation and protection of escape routes need not inhibit the architect's desire to create open, flexible living space.



Cost Effective Protection

Water mist opens up opportunities while providing economic solutions. By using water mist systems, you can enjoy design flexibility, pass building regulations and reduce costs.

Building Control officers and architects are increasingly learning of the benefits of water mist and how this can help with both new developments and refurbishments.

Using Water Mist is not just a more cost effective way to provide design freedom but also another way to comply with building regulations.

Don't be passive

Passive fire protection is often used to pass building regulations such as internal fire doors, travel distances to exits and fire retardant materials within the fabric of the building.

Mist systems are a type of active fire protection and are often used to decrease the passive requirements.

Some projects would not be possible without the use of water mist. For example, where fire brigade access to a proposed development is restricted, planning permission can be achieved with the inclusion of a water mist system.

NPHS Services

As the UK's premier installer of low pressure water mist systems, we are able to provide technical knowledge and project pricing.

We are also able to offer free tailored CPD seminars to Architects, Building Control, Fire Officers, Fire Industry Professionals and M&E Specifiers. Bringing together industry professionals working on a project, helping drive new business.



Water Mist...

Doesn't all go off at once

Water mist nozzles operate independently like sprinkler systems despite what the movies tell you.

Only nozzles close to the heat from the fire will activate. Therefore, a fire in a living room will only activate the mist nozzles in that room.

Nozzles are **discreet**

iCO water mist nozzles are the most discreet domestic nozzles on the market and are hardly visible. Our nozzles sit flush at just 3mm and look like a white disc. Colour matching to an interior colour scheme is possible where required and stainless is also possible.

When an iCO mist system is engineered into a project, the architect has more scope to change the use of space, which in turn changes the nature of the interior, creating unique designs.

Nozzles have a low failure rate

The odds are in excess of 1 in 16 million against accidental discharge because of a manufacturing defect, and the nozzles we use are not easy to tamper with once fitted.

During manufacture, the nozzles are rigorously tested.

Activates with heat

Smoke from cooking or smokers materials will not activate a system.

Work differently to smoke detectors Smoke detectors provide valuable warning time but which can alert people of smoke but does not suppress a growing fire. Detectors must have routine maintained and be in good working order to help save lives but can't help those who are unable to remove themselves from the environment.

It is a fact that 90% of children sleep through smoke alarms. Smoke is toxic and can kill. Water mist inhibits the spread of smoke and saves lives.

Ensure minimum damage

Water mist nozzles operate at the early stages of a fire and discharge only 10-20% of the amount of water of traditional sprinklers and controls the fire in it's early stages from spreading. In most cases this is sufficient to completely extinguish a fire.

Water mist systems also minimizes damage from smoke and fire. To control a fire which has developed unabated, the fire service will be obliged to discharge far more water (100 to 200 times the volume.)

Very competitive on price

The costs are highly competitive and provide many options for reducing costs on larger projects.

If incorporated into old buildings, water mist systems save developers money while reducing costly making good when compared to traditional sprinklers.



Saving Lives

iCO systems is a market leader of water mist systems for domestic and residential fire suppression, and are typically used in the following applications:

- Houses & Bungalows
- Apartment & Residential Blocks
- Nursing Homes & Hotels
- Heritage and listed properties.
- HMOs
- Engineered solutions for Saunas & Store Rooms
- Industrial Kitchens
- Manufactured Homes



Reduce Risk

- The year of 2019 in the UK alone, 253 people were killed by fire, and over 7,160 injured.*
- During our lifetime, each of us runs a 1 in 5 risk of being involved in a serious house fire. The young and the elderly are most vulnerable.
- Unchecked, a fire can engulf a room in less than two minutes. As well as sounding an alarm, water mist systems cool a fire and reduce the smoke. This makes evacuation easier. For those unable to manage on their own, mist systems provide precious extra time for help to arrive.
- People still die in fires in a property, which is well maintained, includes smoke detection, complies with building regulations and is attended by the fire service.

Water Mist is Proven to Save Lives

iCO systems detect a fire and discharge a calculated amount of water from the nearest nozzle in a spray pattern designed to suppress the fire. They are ideal for homes, other HMOs (houses in multiple occupancy) and apartments where risk of fire is greater. Forward thinking architects and developers are choosing to include water mist in their designs.

* Home Office Fire and Rescue Incident Statistics Report 2019

Our Products..

Nozzles are **discreet**

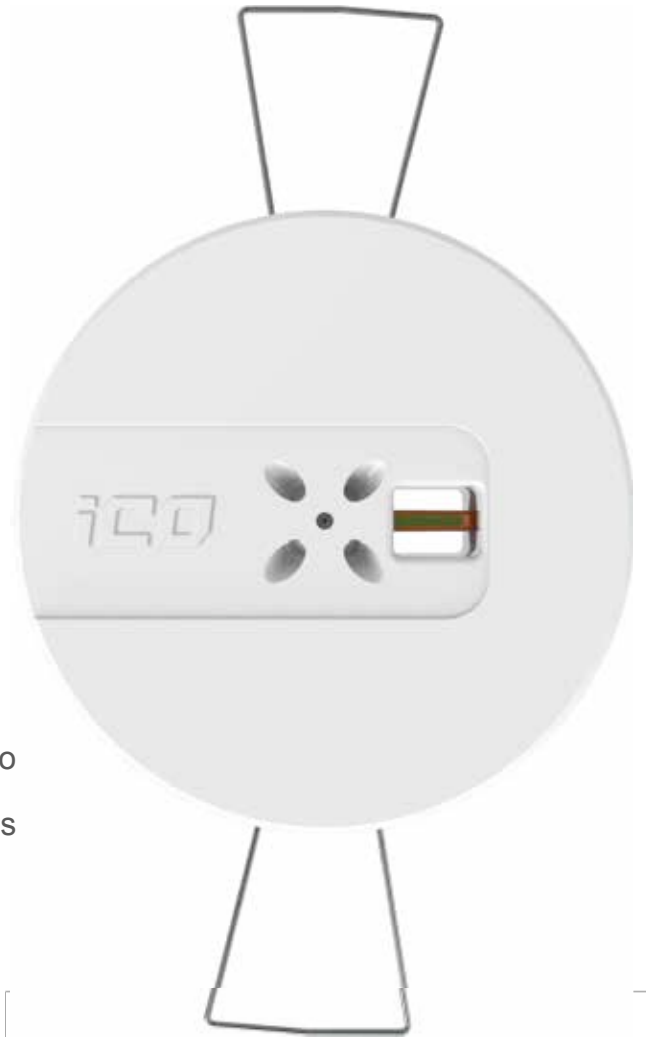
Our nozzles sit flush at just 3mm giving them the most discreet visual on the market and can be colour matched to any colour using the RAL colour code system.

They work by a heat sensitive bulb that when activated, discharges a water mist which removes heat and displaces oxygen from the fire providing fast and effective fire suppression.

Testing of our products

On the 23rd March 2016 the iCO system under took independent third party testing by Exova Warrington Fire, a UKAS accredited laboratory and achieved all testing criteria.

Testing is done on set criteria and also ensures systems are tested to cover fire compartments of up to 80m² which when achieved, allows watermist system to be used on domestic and residential projects across the UK. Tests reports are available upon request.

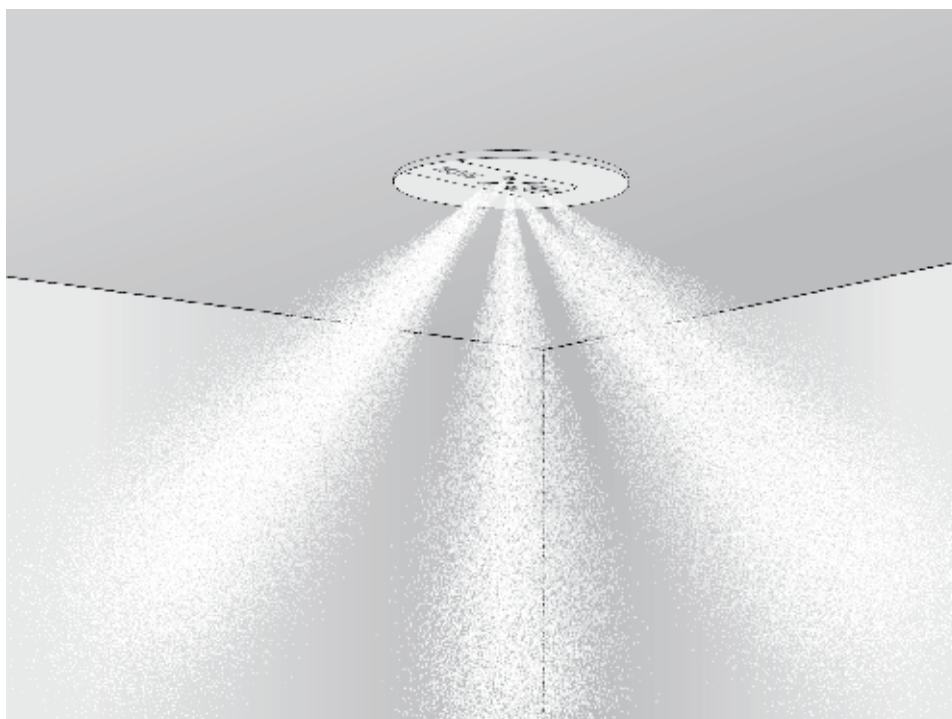


Our Pumps are smaller than the competition

The iCO pump is compact when compared with competitor's pumps, can fit into a kitchen cabinet and uses an impressive 12 ltr per min straight from the mains to provide great fire suppression in a more compact design.

Weighing in at just 16kg, our pump is quick and easy to install which makes the system far easier to install or retrofit when compared to traditional sprinklers.

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