



Fire Suppression Misting System

hello@firemisting.co.uk

01244 885061

www.firemisting.co.uk

We design, supply and install FireMisting solutions.

We offer a full turnkey solution for all of your fire suppression needs including design & installation. Our full piece of mind maintenance service also ensures our systems are always in optimum condition and ready to protect your home should the need arise.

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Fire Misting

Why should I have a FireMisting system?

What you need to know

New requirements for Automatic Fire Suppression Systems.

If you live in Wales, it is now a legal requirement to install a fixed fire suppression system. This applies if you are building a new home, renovating a property or changing the the use of an existing building (e.g from a commercial property to a domestic property).

The Welsh requirements stipulate that fire suppression systems must be installed throughout the whole property and not just around exit or escape areas. Residential care homes and HMOs must also comply to these requirements, as well as sheltered accomodation.

In existing properties in Wales or properties in the rest of the UK, it's still important to consider installing because:

Smoke alarms only save lives not properties

Water damage can be far worse than smoke damage - (valuables are more likely to survive with a misting system activation when compared to sprinkler systems)

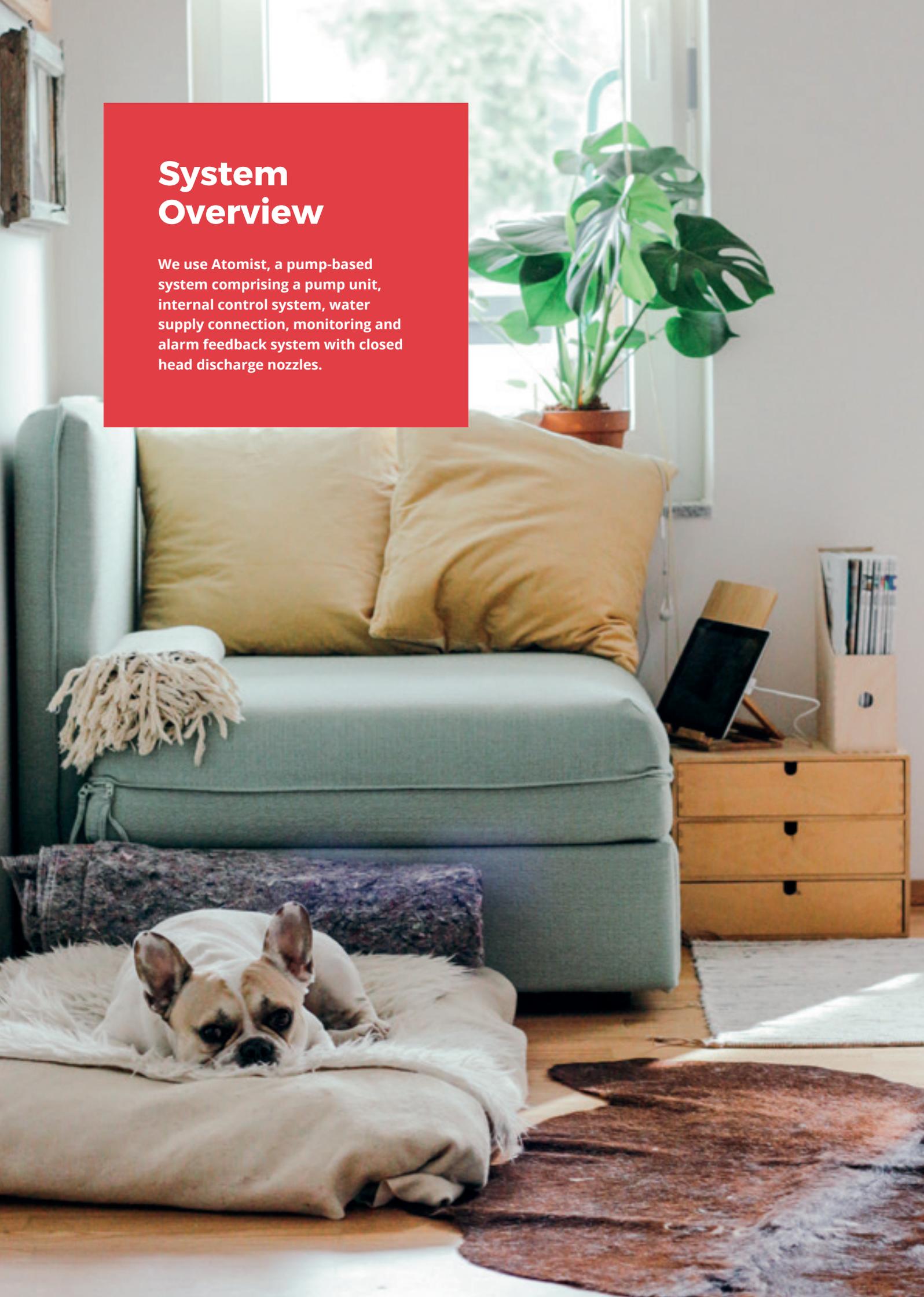
Misting systems discharge water at just 12 litres per minute which is significantly less than an average sprinkler system which uses 48 litres per minute. This reduces water damage caused when activated plus the environmental benefits of using less water

A misting system is like an extra insurance policy for your family - protect those that matter most to you

We are registered as approved contractors with multiple councils across the country, and support them with the installation of misting systems across their properties

System Overview

We use Atomist, a pump-based system comprising a pump unit, internal control system, water supply connection, monitoring and alarm feedback system with closed head discharge nozzles.





Our systems are an extremely effective form of fire suppression working at a nominal pressure of 60 bar.

We use carefully designed and calibrated nozzles which produce an extremely fine water mist. These mist droplets create a much larger surface area, making it difficult for a fire to breathe and therefore spread throughout a property. The fire is then contained to a much smaller area, resulting in minimal fire and water damage.

Our system is activated by heat and not smoke (which is a common misconception). Once room temperature reaches 57°C, the heat activated frangible bulb inside the nozzle will trigger and a light mist will begin discharging. The piping attached to the nozzles are charged with water at standard mains pressure.

In the event of a nozzle operating, the system will monitor the flow and after a short delay, the pump will start, discharging the mist at a higher pressure.

Main Components of our Systems

- 01 An Electrically Operated Pump Unit**
- 02 A Water Supply Filtration System**
- 03 Inlet and Outlet Isolation Valves**
- 04 Audible and Visual Indicators for Alarm, Fault and Healthy Operation Queries**
- 05 Volt Free Fire and Fault Contacts for Connections into Main House Fire Alarm and/or Monitoring System**

Our unique system technology makes it possible for each misting nozzle to disperse water mist over an area of 16m². Each nozzle discharges water mist with tiny droplets (in the 50 - 150 micron range)

Every misting nozzle that we install at FireMisting, has been fully tested to the required British standard (BS8458:2015), giving you the full assurance of a quality system to protect your home and family.

Our nozzles are each fitted with a specially designed fast response frangible bulb which will only operate when room temperature reaches a minimum of 57°C.

Our Atomist system comprises of two high pressure pumps inside a pump unit. The pumps ensure that maximum flow rate and pressures are distributed evenly to each nozzle, should the system activate in the event of a fire.

With a built in sound alarm, you are always safe in the knowledge that if the system is under powered or has developed a fault, you will be alerted.





Why Choose the FireMisting Fire Protection System?

01

Easy to Install

Easy to install with minimum disruption, even when retrofitted

02

High Quality System

Compliant to British Standard BS8458:2015

03

Low Cost

Ease of installation keeps costs low

04

Efficiency

Very low water consumption

05

Environmentally Sound

Environmentally friendly solution compared to traditional sprinkler systems

06

Minimum Damage

Damage kept to a minimum when activated

System Building Provisions



Electrical Requirements

Pump Specification	16Amp @ 230vAC
Pumps Required	1
Specific Breaker Required	C16 RCBO Type Breaker
Local Power Required	Rotary Type Local to Pump
Cable Requirements	FP200 or Similar Approved



Water Requirements

Pressure Required	1 bar
Flow Required	12 l/m
Safety Margin	25 l/m
Cold Water Feed Required	15mm/22mm

System Nozzle

Our small but mighty nozzles sit snugly in your ceilings and are only 80mm in diameter and 3mm thick which means they are your homes perfect companion for fighting fire.

Our nozzles come as standard in a white finish which matches most ceilings. However, should you require a different colour to match your room design, just let us know.

80mm in diameter

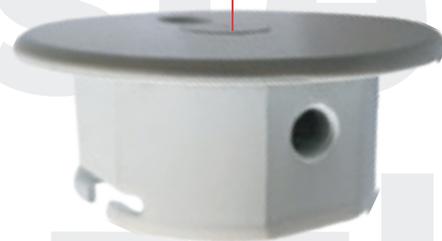
3mm thick



Nozzle heads can be coloured to match your interior design scheme



The nozzle discharges water mist with droplets in the 50-150 micron range.



Connecting our nozzles to the Atomist pump unit is a specially designed semi rigid nylon tube that can take pressures of up to 240bar. The Atomist pump operates at 60bar when activated which ensures every droplet is atomised for maximum effect.

All of our components are made of high quality materials and are non corrosive and hydraulically suited.

Trust FireMisting for your complete fire suppression system needs.

We offer a full system
design, supply and
installation service.

We also offer affordable
yearly service and
maintenance packages to
keep your system in
perfect health.

All of our services conform
to the BS8458:2015
standard

For free, no obligation
quotations **Contact
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