

# Automist<sup>®</sup>

Easy to retrofit Suppression

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Plumis

Q2 2022

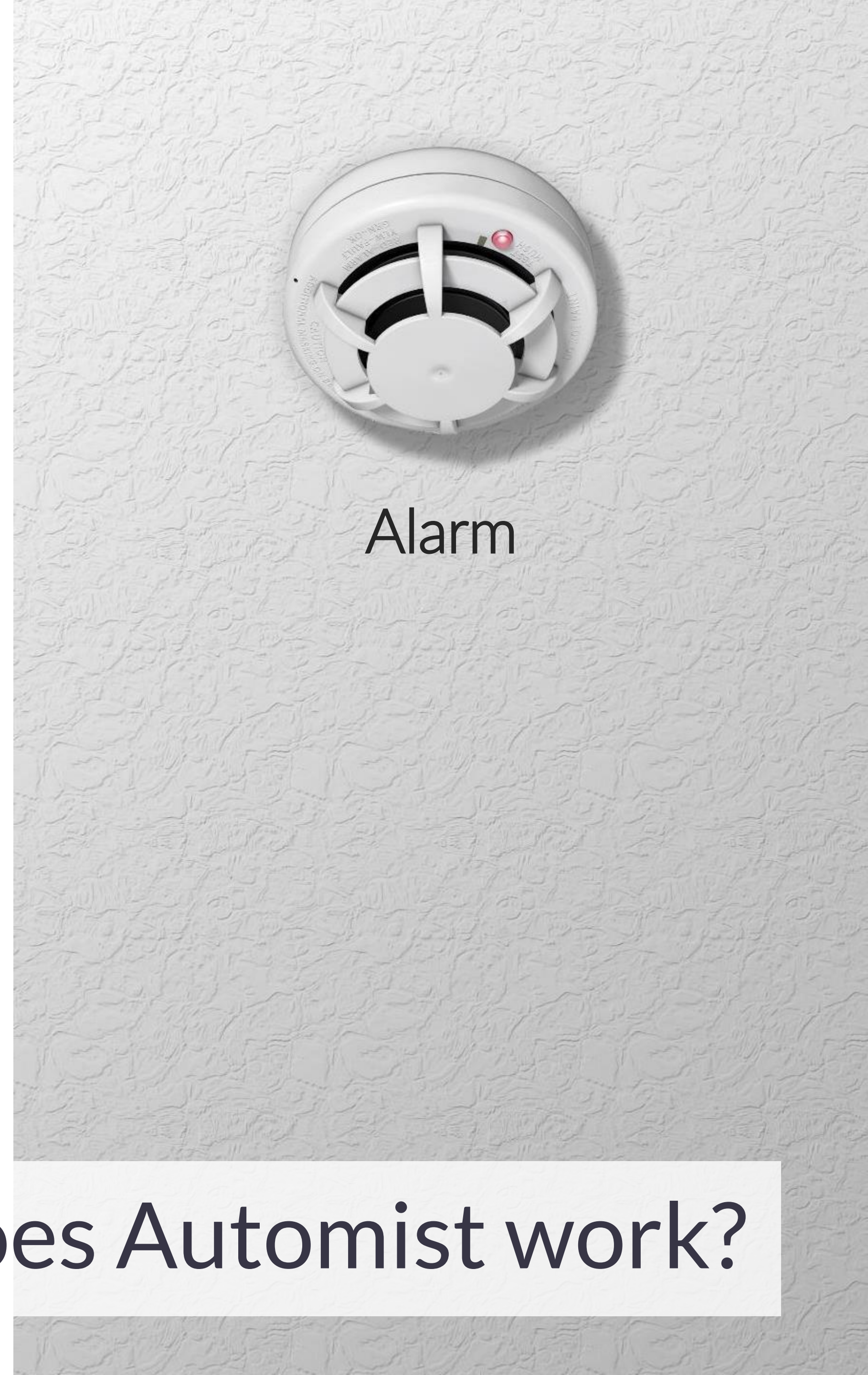
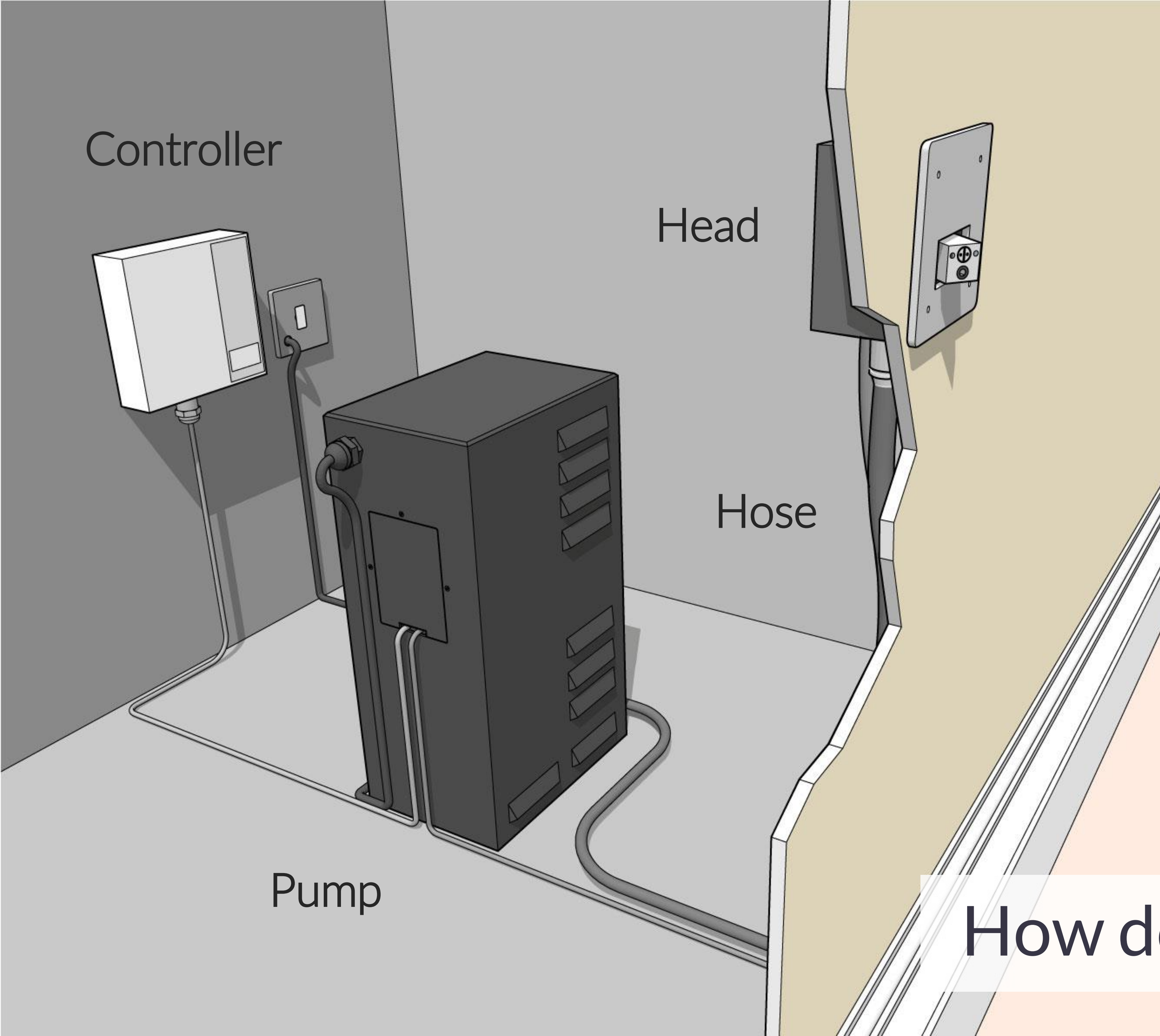






Introducing Automist  
Electronically  
controlled targeted  
watermist

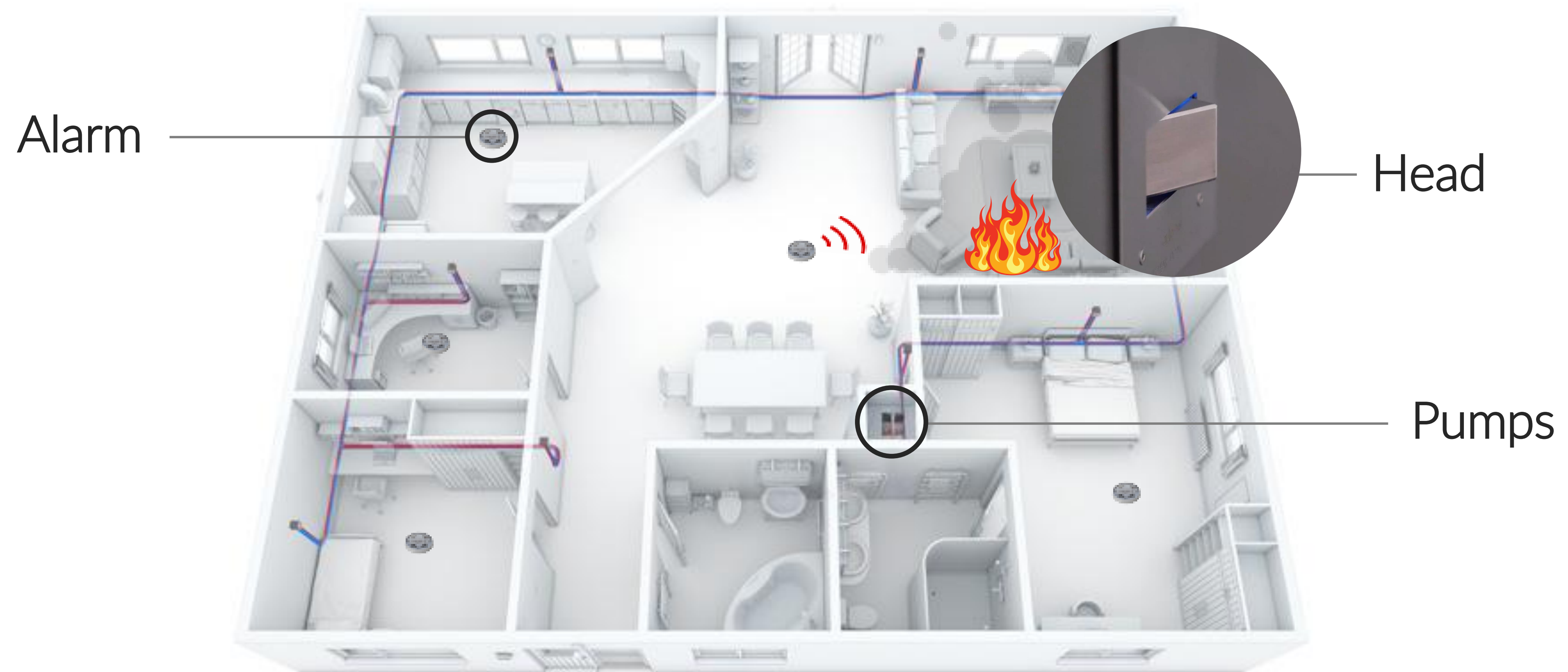




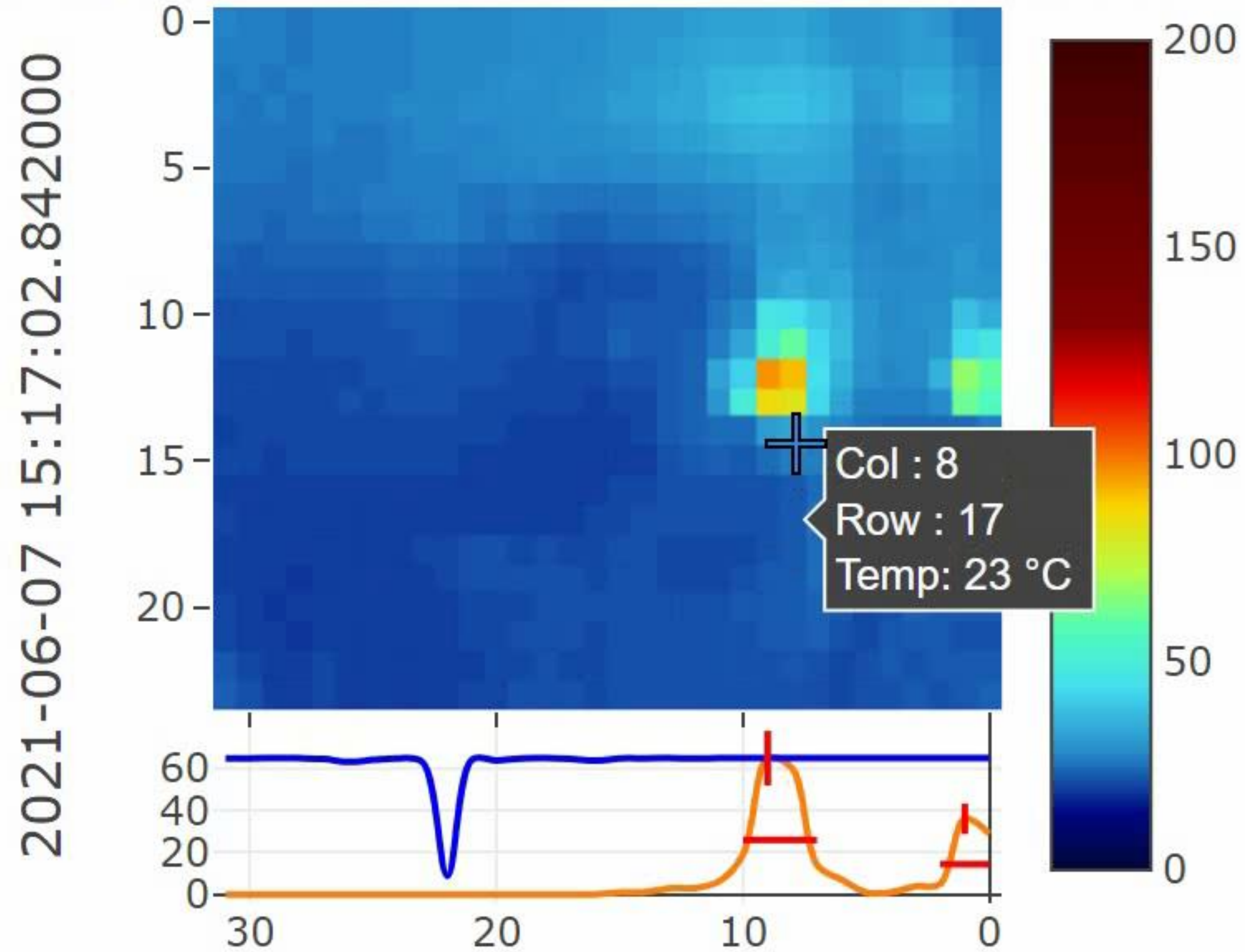
How does Automist work?



# Smart suppression designed for life safety

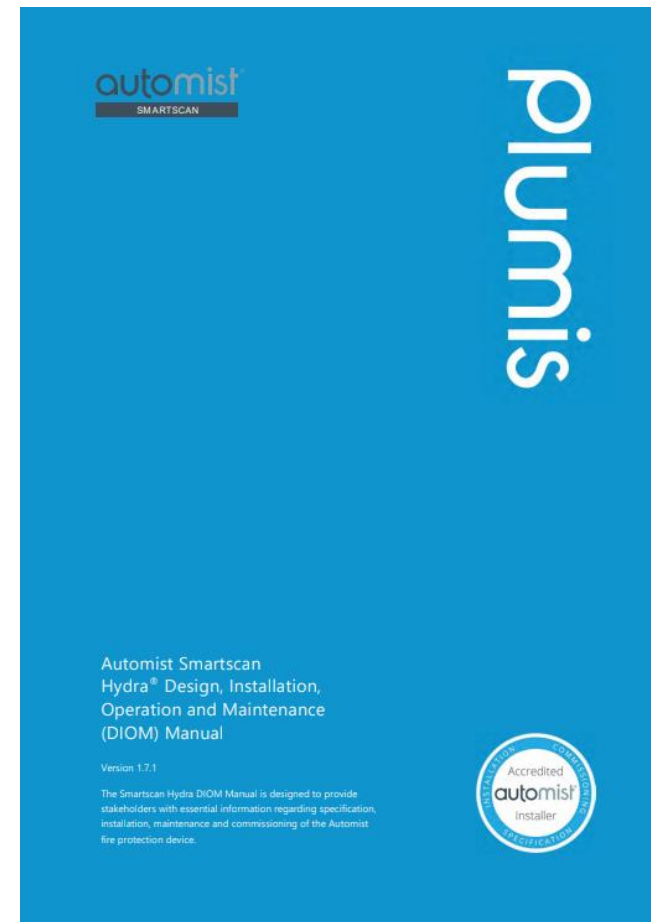
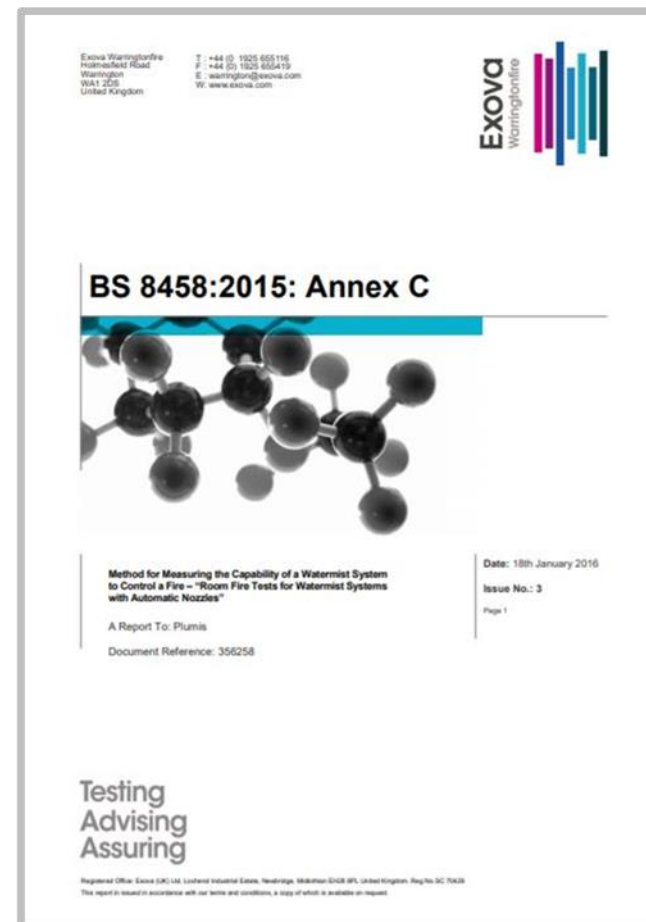


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# BS 8458 Clause 6.1 – Fire Tests



Independently tested by Exova Warrington Fire to meet the fire performance in BS 8458 2015

BSi Verification Certificate VC 71258

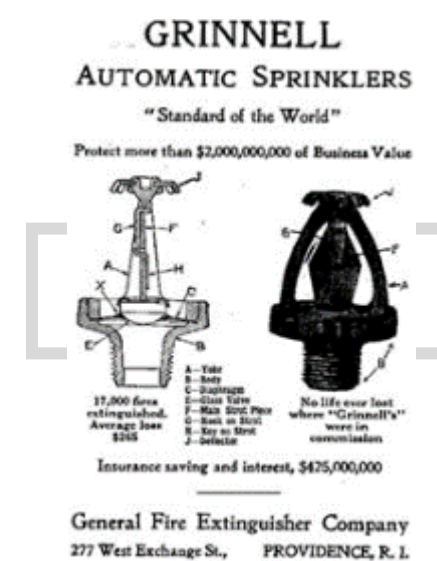
11 fire tests successfully passed including:

- multiple head positions
- open rooms
- ventilated rooms
- worst case



# Why do things differently?

- Earlier activation  
*minimise the production of toxic gas & heat*
- More efficient use of watermist  
*reduce the demand on the water supply*



1882

Today

2002

‘The research showed that **a more sensitive sprinkler was needed** to respond faster to both smouldering and fast-developing residential fires’

Review of Residential Sprinkler Systems: Research and Standards by Madrzykowski and Fleming



# 2004

‘The house fires used in these tests were all of a slow-growing type that produced **a lot of smoke but limited heat**. Because sprinklers depend on heat to activate these fires **posed a severe challenge to the sprinklers...**’

An appraisal of the ODPM - BRE Report by the Fire Sprinkler Association



2006

the fire experiments have indicated that  
**sprinklers alone are unlikely to operate soon  
enough** to prevent the occupant of a bed being  
fatally injured or suffering very serious injuries  
from flames and/or heat.'

Sprinkler Effectiveness in Care Homes by BRE



# 2017

‘We have an aging population with increased vulnerabilities...People **will therefore need to be protected in increasingly more sophisticated ways** than have been used to date for able-bodied people capable of responding to alarms

The causes of fire fatalities and serious fire injuries in Scotland by  
BRE



# 2019

‘A study of these fatal dwelling fires, where sprinklers were present, found that the circumstances of the fire fell outside the life-saving operating parameters of the system’s design.’

Incidence of Deaths and Injuries in Sprinklered Buildings by NFSN and NFCC



# BS 8458 Clause 6.8 – Water Supplies

Minimum Guaranteed UK Supply Office of Water Services ( <u>OFWAT</u> )	Traditional Sprinkler's Water Usage
9 litres per minute	60 litres per minute (per nozzle)
0.7 bar pressure	approx. 2 bar pressure



Tank or mains  
upgrade required



# BS 8458 Clause 6.8 – Water Supplies

Minimum Guaranteed UK Supply Office of Water Services ( <u>OFWAT</u> )	Automist's Water Usage
9 litres per minute	5.6 litres per minute
0.7 bar pressure	0.7 bar pressure

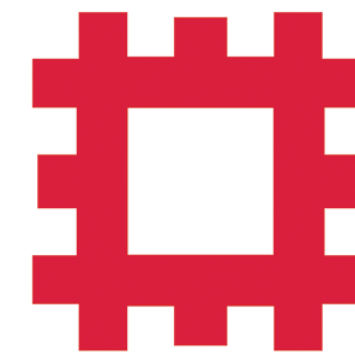
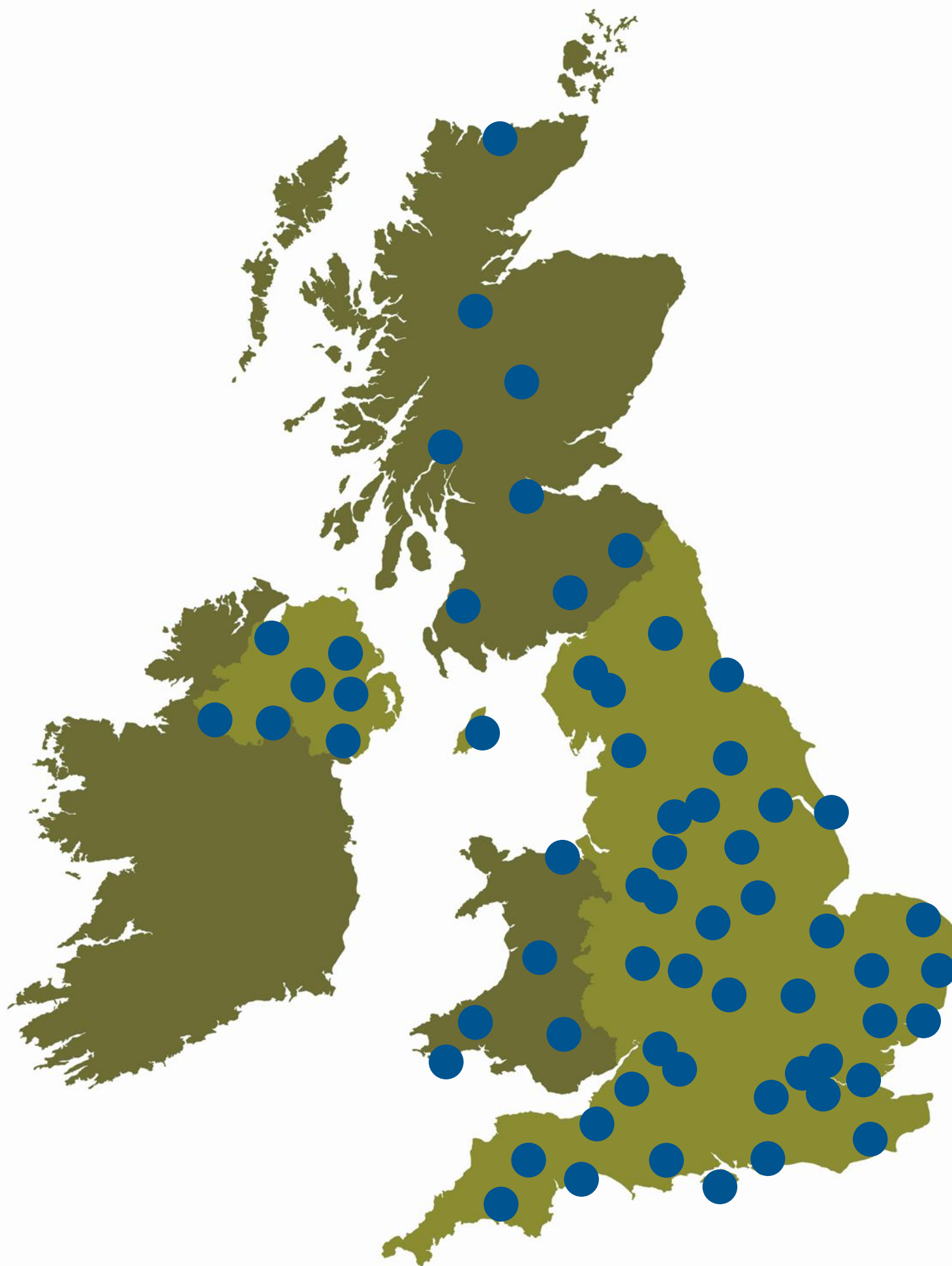


Pressure and  
flow test



# Milestones

- Established 2008
- Over 10,000 installation
- At least 6 lives saved
- Winner of numerous international design awards



ENGLISH  
HERITAGE



Thorngate Churcher Trust  
HOUSING AND CARE SINCE 1868

Loreburn  
Housing Association















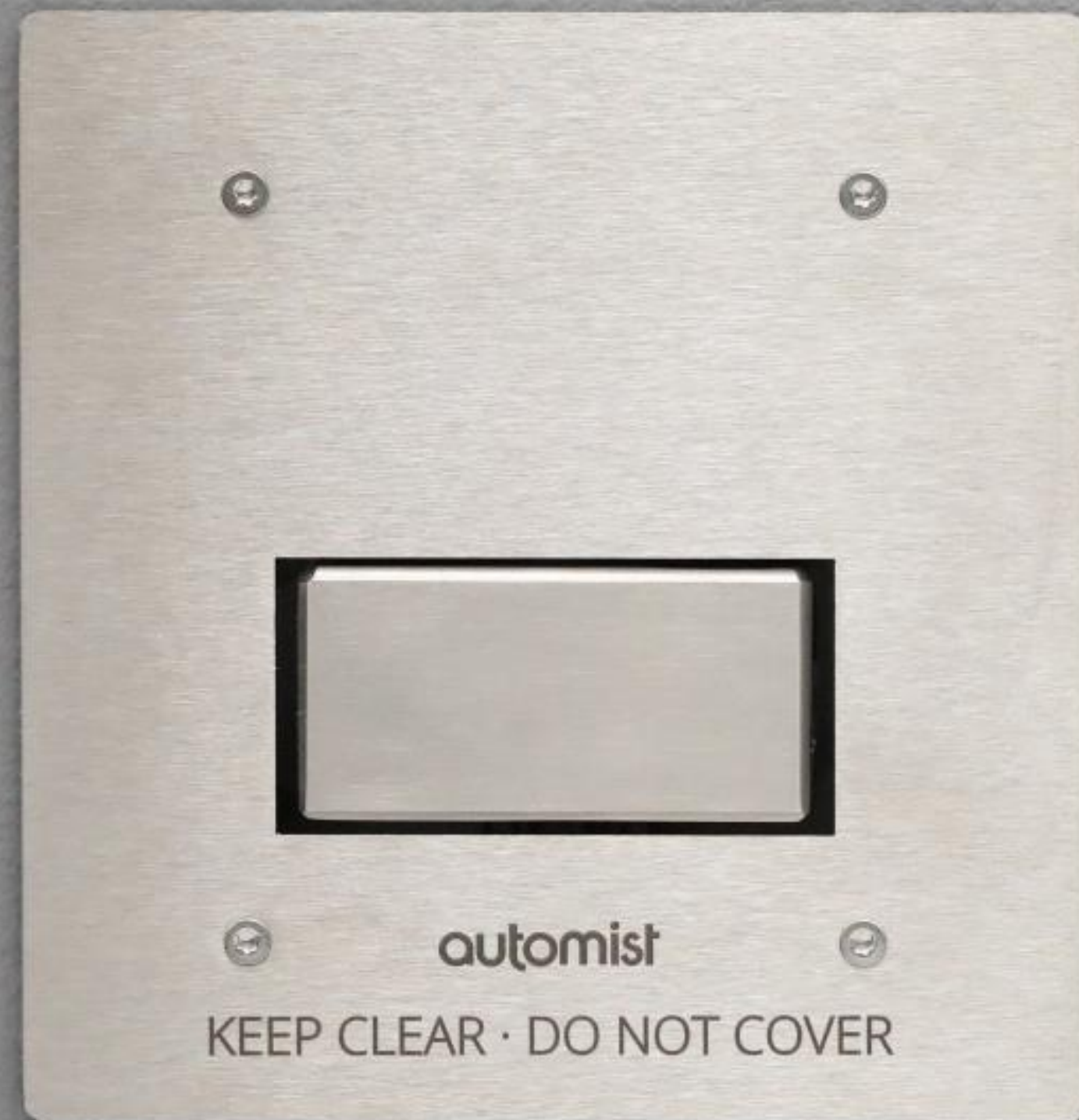




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Loreburn Housing Association





Thank you for listening

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