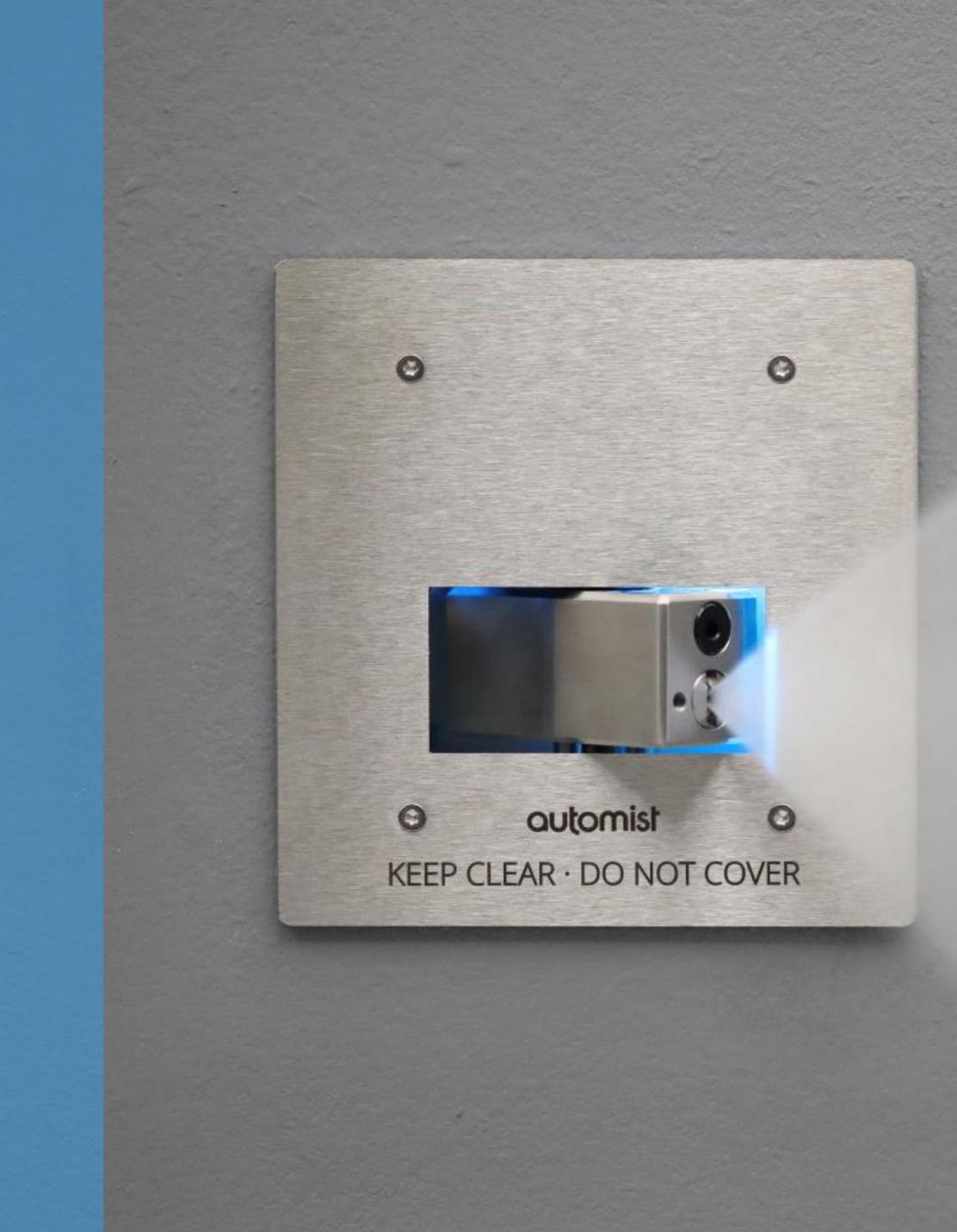
Automist Easy to retrofit Suppression

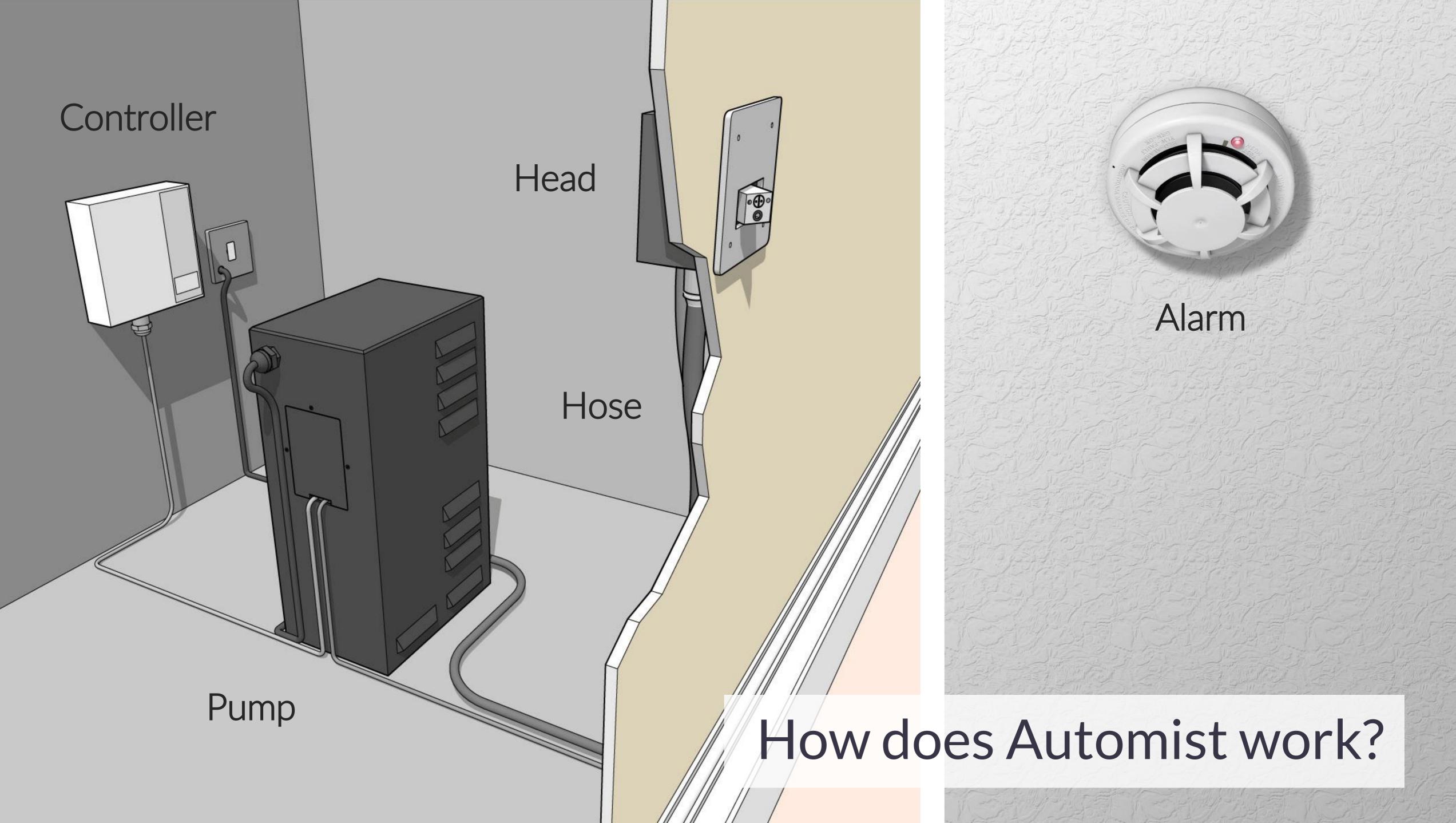
Plumis

Q2 2022

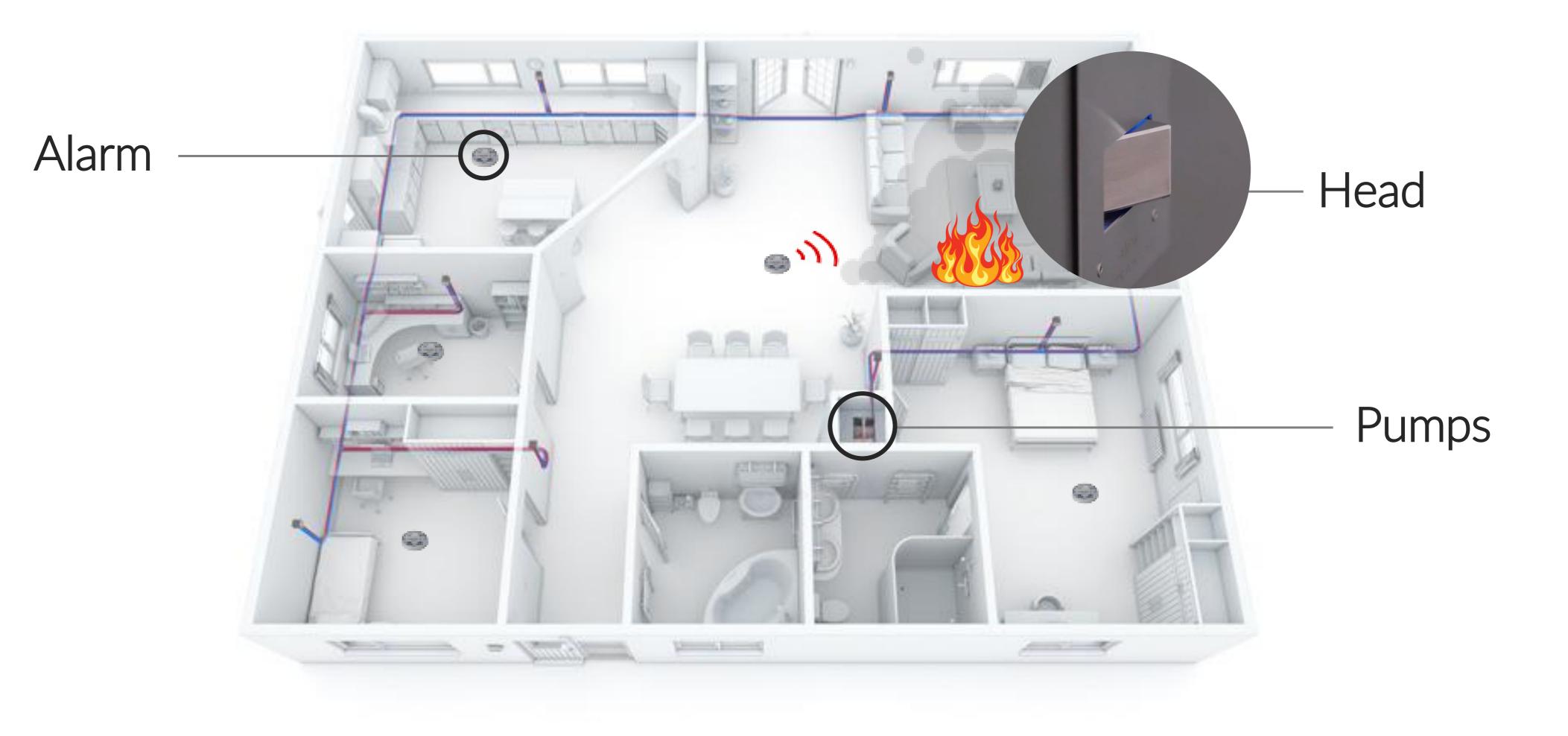




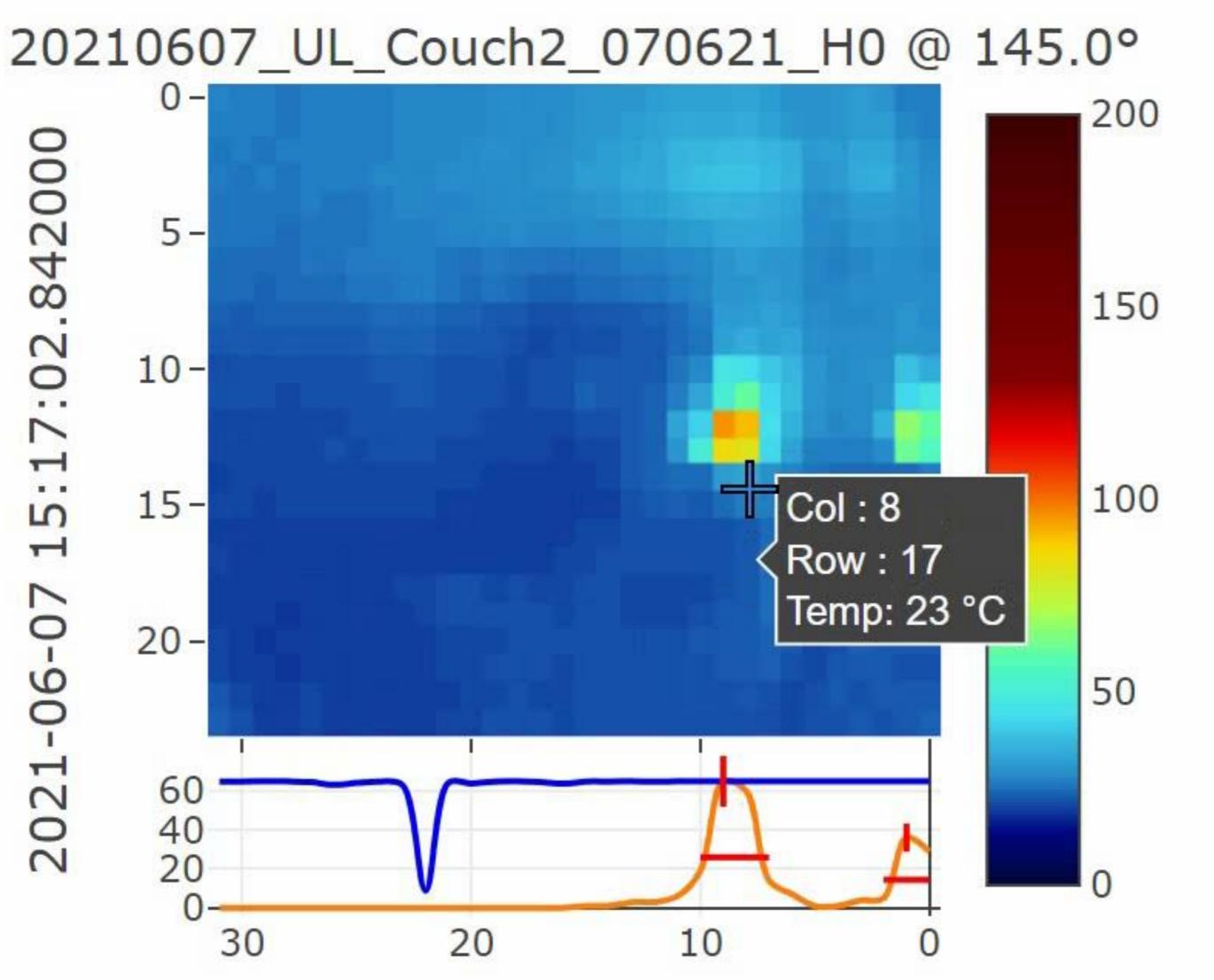
Introducing Automist Electronically controlled targeted watermist

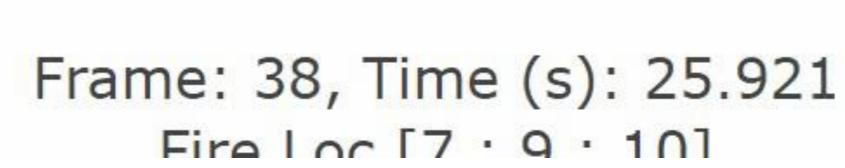


Smart suppression designed for life safety









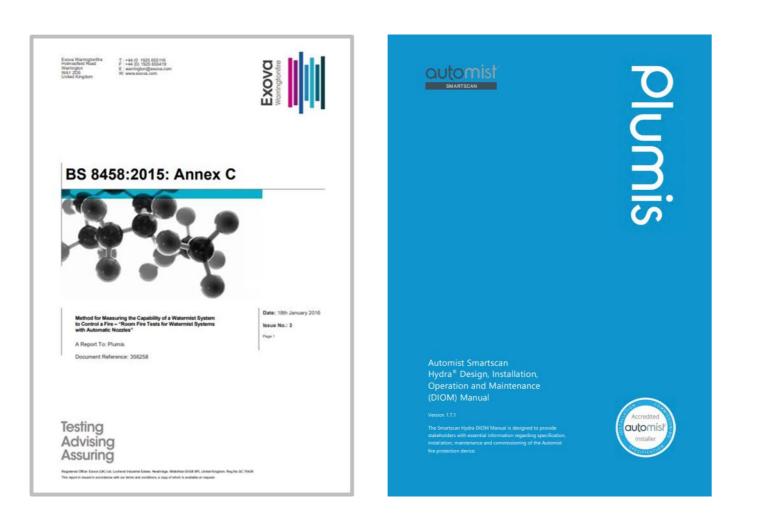
5:17:02.842000 --06-07 2021

Fire Loc [7 · 9 · 10]

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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

		de orde
Verification Certif	îcate	By Royal Charter
This is to certify that:	Plumis Ltd Claphain North Arts Centre 25-32 Voltaine Rd London SW4 60H United Kingdom	
Holds Certificate Number:	VC 656504	
In respect of:		
comply with the netwark classes of This worlfcation contificate constitu- worlfcation cartificate is for the en- between BSI and its cleant. BSI re BSI assumes no liability to any pe	utes a part of a technical file and should clusive use of the certificate holder and	cation contribute at the time of verification. the read in conjunction with it. This is provided pursuant to the agreement, is terms and conditions of the agreement.
On the basis of the referenced Ve comply with the referent clauses this verification certificate constit werification certificate is for the an between BSI and its client. BSI re SIS resumes reliability to any pr	of the specification(s) lided on this verifi- tities in part of a technical file and should chailwe use of the cartificate holder and sponsibility and liability are limited to the reg, other than to the client in accordance	cation contribute at the time of verification. the read in conjunction with it. This is provided pursuant to the agreement, is terms and conditions of the agreement.
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Plumis



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

of toxic gas & heat mist e water supply

Today



'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

2()()2



heat to activate these fires posed a severe challenge to the sprinklers...'

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

2()()4

'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



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



We have an aging population with increased protected in increasingly more sophisticated ways than have been used to date for able-

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

2017

vulnerabilities...People will therefore need to be bodied people capable of responding to alarms



'A study of these fatal dwelling fires, where sprinklers were present, found that the circumstances of the fire fell outside the lifesaving operating parameters of the system's design.'

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

2019



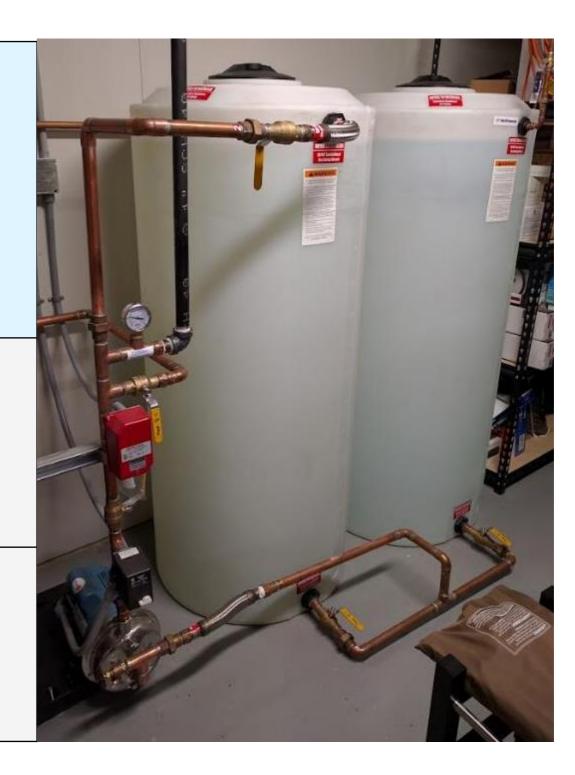
BS 8458 Clause 6.8 – Water Supplies

Minimum Guaranteed UK Supply Office of Water Services (<u>OFWAT</u>)	Tradition Wat
9 litres per minute	60 litre (pe
0.7 bar pressure	approx. 2

onal Sprinkler's ater Usage

es per minute er nozzle)

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>)	Au Wat
9 litres per minute	5.6 litres
0.7 bar pressure	0.7 ba

utomist's Iter Usage

es per minute

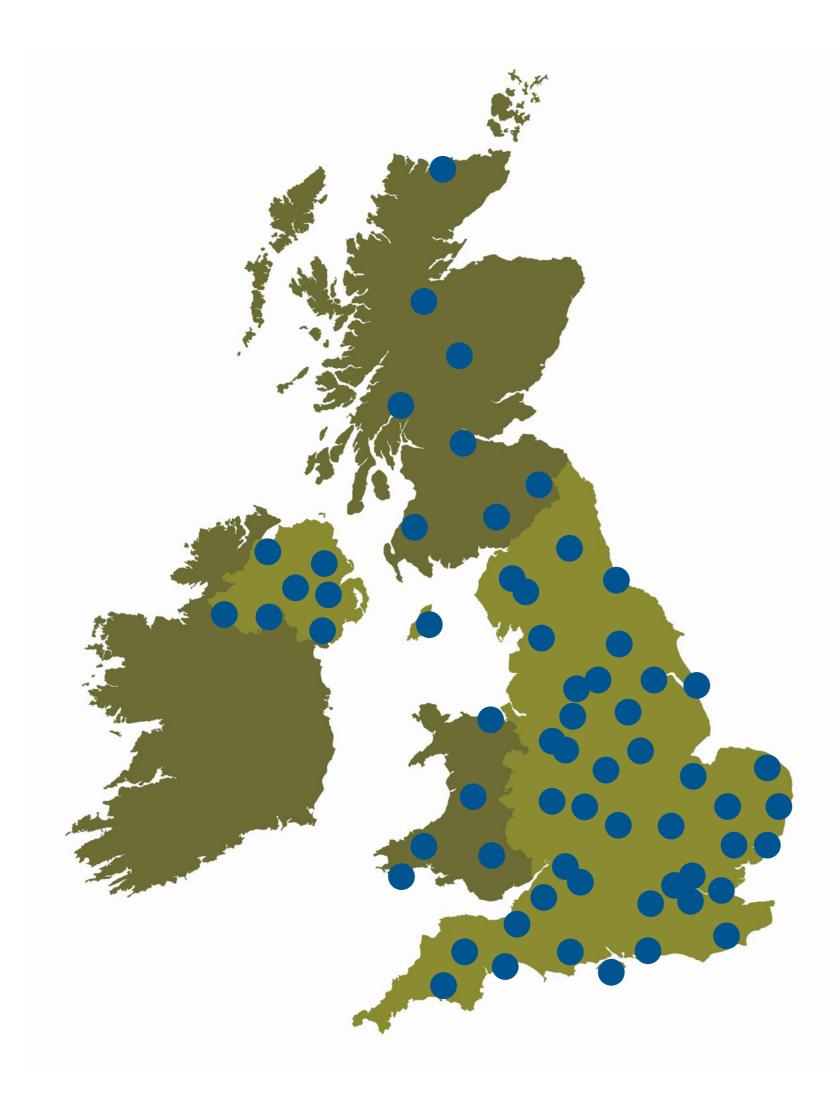
ar pressure



Pressure and flow test



Milestones



- Established 2008
- At least 6 lives saved
- Winner of numerous international design awards



• Over 10,000 installation









WILLIAM C.GOODRIDGE

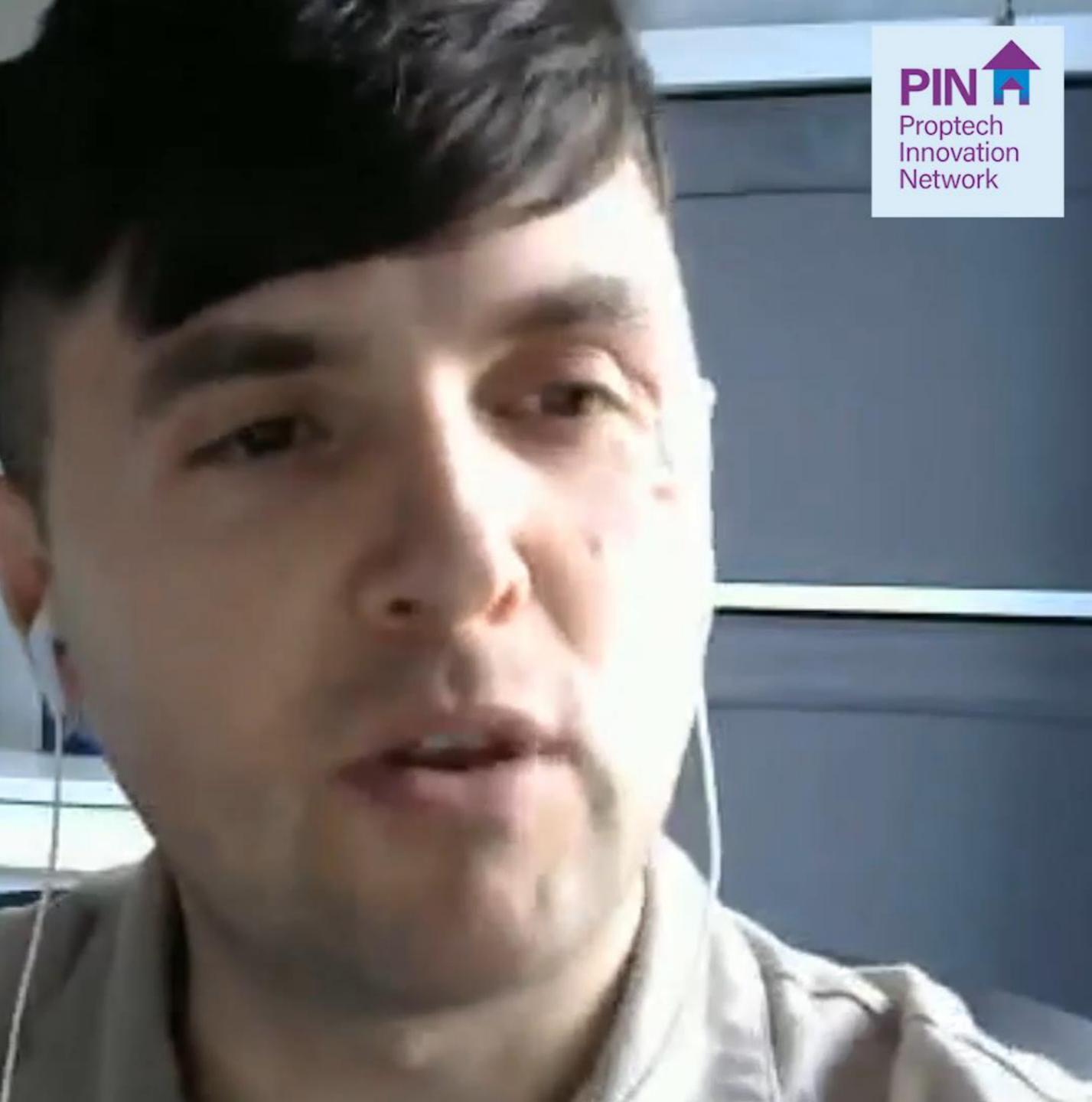
WILLIAM & Here lived an ex-slave, Here lived an ex-slave, born 1805, who became a prominent York businessman, 1824 - 1863, Tanner, newspaper distributor, barber. Erected York's first five-story building, His 13 rail cars operated commercially and were used in his work for the Underground Railroad.

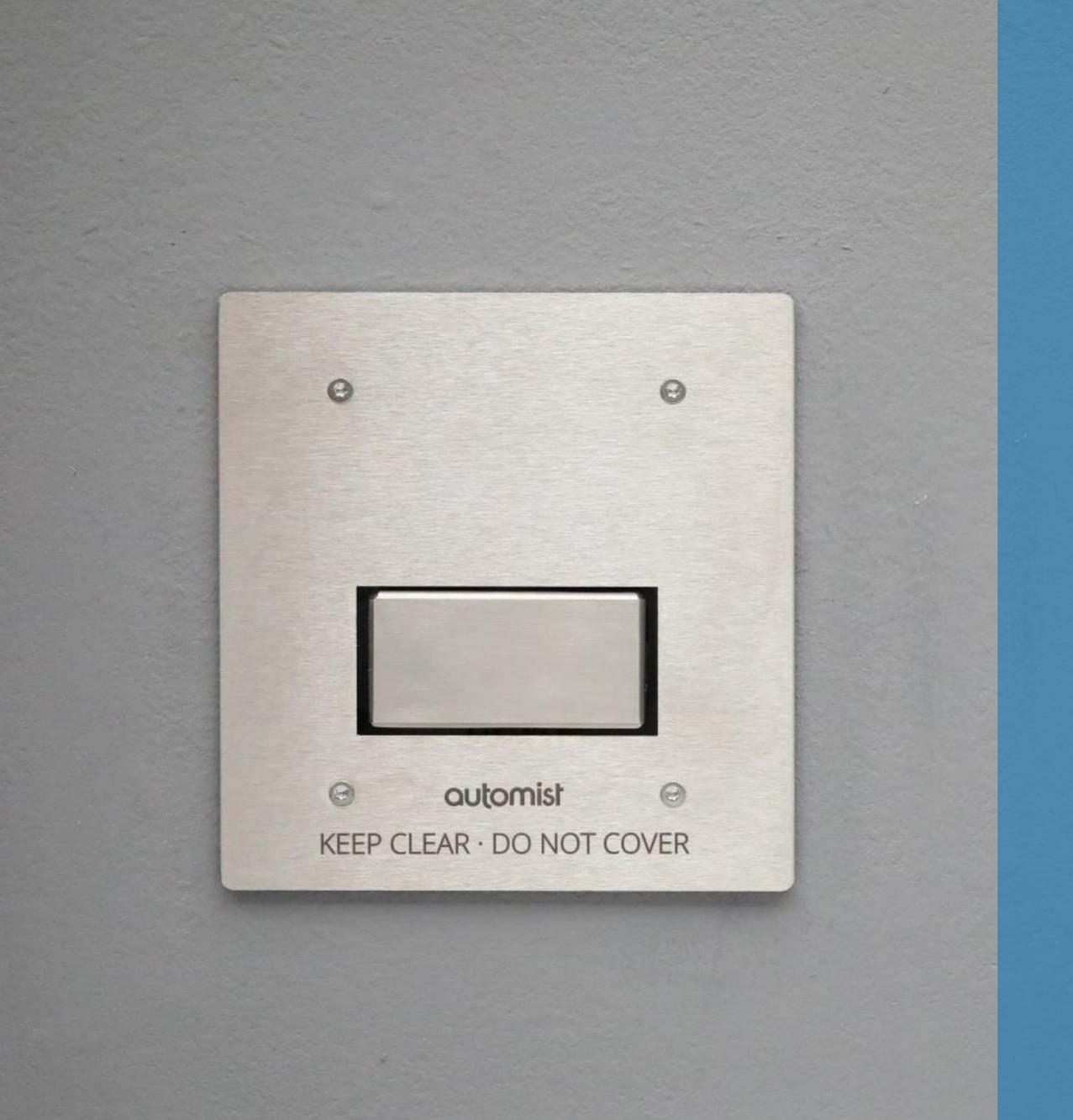






Gary Alison Director of Property and Development (interim) Loreburn Housing Association





Thank you for listening

info@plumis.co.uk