

FirePro.

UK & IRELAND

www.fireprouk.com

About FirePro UK Ltd



About



Managing Director – Tony Hanley

- Active fire systems engineering experience >40 Yrs.
- FIA board director 16 Years & currently Vice Chairman.
- Post Grenfell tragedy represented FIA in Hackitt review – WG4 Competency.
- 2023 FIA Lifetime achievement award – Exceptional services to fire industry.
- Formed fire engineering Co (Titan) in 1988, acquired by Marlowe PLC in 2016.
- Founder and Managing Director of FirePro UK Ltd.
- Pioneer in recognised competency standards for fire engineering.
- Ambassador for Children's Burns Camp Charity.



FirePro UK is certified by BSI to ISO 9001 and is an active subscribing member of the following trade associations



About



FirePro – The Product

- FirePro is the name of the fire suppression product.
- The terminology for the FirePro product is 'Condensed Aerosol'.
- The product is manufactured by [FirePro Systems](#) in Limassol, Cyprus.
- The product is supported in 112 countries, worldwide.
- Product approval / performance certificates exist for all countries it is sold in.
- The product manufacturer was acquired by [HALMA PLC](#) in 2024.
- HALMA PLC grows safer, cleaner, healthier futures for everyone every day.
- Regionally, FirePro is sold and supported via appointed master distributors
- FirePro UK Ltd are the exclusive master distributor for UK & Ireland.



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About



FirePro UK Ltd – Product Support

- FirePro UK Ltd have been the UK & Ireland Master Distributor since 2012.
- Our relationship was formed out of direct experience with FirePro installations.
- We assisted the manufacturer with UK LPCB product certification in 2022.
- We set up training and approval of a network of specialist installers (circa 40).
- BRE adopted our draft competency scheme in 2024 (ref LPS 1204 3.2).
- We provide product application support to insurers, end users, consultants.
- Our case study bank includes numerous product applications and solutions.
- We supply FirePro and complementary fire products to our installer network.



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What is FirePro Technology?

- FirePro is NOT a gas or water stored under pressure.
- FirePro is a solid potassium compound that transposes when activated.
- The material released is a fine dry opaque potassium-based particulate.
- The particulate interrupts at molecular level to extinguish fire.
- See the technical prospectus detailing all facets and approvals for [FirePro here](#).
- The BS/EN standard for condensed aerosol fire suppression systems is 15276.
- Suited to various classes of fire risk, FirePro protects large or small enclosures.
- FirePro is all electrical with no cylinders, pipes or over pressure venting.
- FirePro is independently certified for a 15-year lifecycle.



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FirePro Sustainability

- FirePro compound derives from the Earth's naturally occurring elements.
- FirePro is free from HCFC's, HFC's, PFC's and is not considered a PFAS agent.
- FirePro is fully recyclable and has zero ozone depleting potential.
- FirePro is built in mild steel casing, hence a significantly lower carbon footprint.
- FirePro does not require specialist handling or F-Gas certification.
- FirePro does not deplete oxygen to extinguish fire.
- The need for water or gas is eliminated thus reducing potential for damage.
- FirePro may well contribute toward [LEED](#) building environmental certification.



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Applications

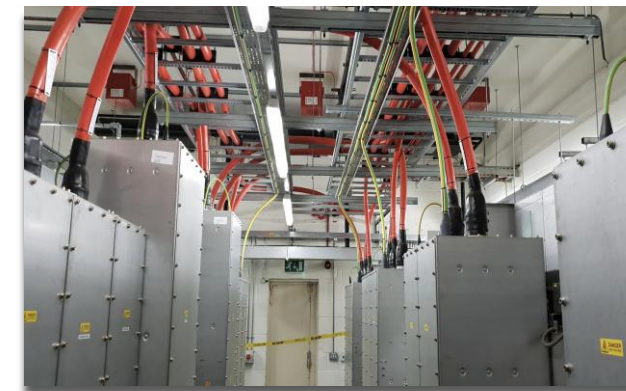


FirePro Applications



In Cabinet

- Process Control Cabinets
- Vending Machines
- Hospital Machinery
- Industrial Laundromats
- Mining Machinery
- Fork Lift Charging
- And more.....



Room Flood

- Transformer Rooms
- Li-Ion Battery Storage
- Diesel Generators
- Chemical Storage
- Sub Stations
- HV/LV Rooms
- And more.....

INPUTS



Automatic smoke
or heat detection



Automatic UV
Flame detection



Linear Heat Sense



Stand alone
Thermal activation



Manual release only

Activate FirePro

OUTPUTS



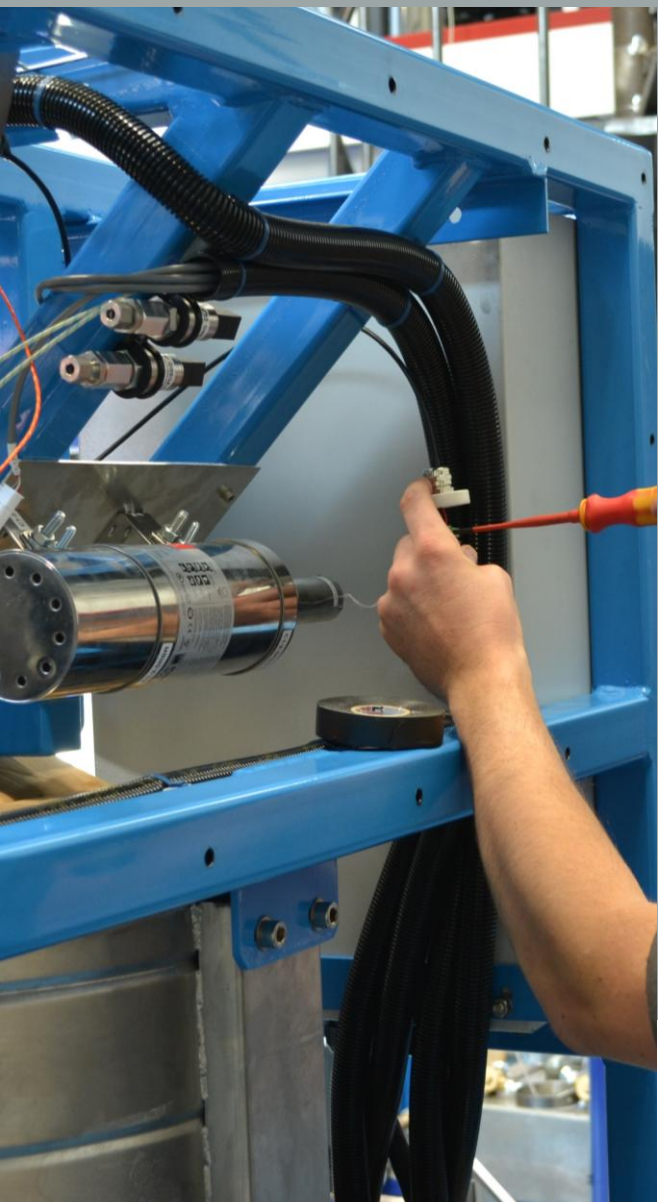
Shut Power off



Shut Air Con off



Signal Fire Alarm
/ BMS



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Live Demo



See the FirePro product in action!

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In Cabinet Active Fire Suppression – Case Study

Croydon Universities NHS Trust Hospitals



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In Cabinet Active Fire Suppression – Case Study

Croydon Universities NHS Trust Hospitals



This bank of 6 machines sterilises medical utensils by way of a special cleaning process delivered at very high temperature, critical for NHS patient care services.



In Cabinet Active Fire Suppression – Case Study

Croydon Universities NHS Trust Hospitals



This is one of the machines following a serious internal fire which resulted in significant water and smoke damage and severely impacted critical patient care services.



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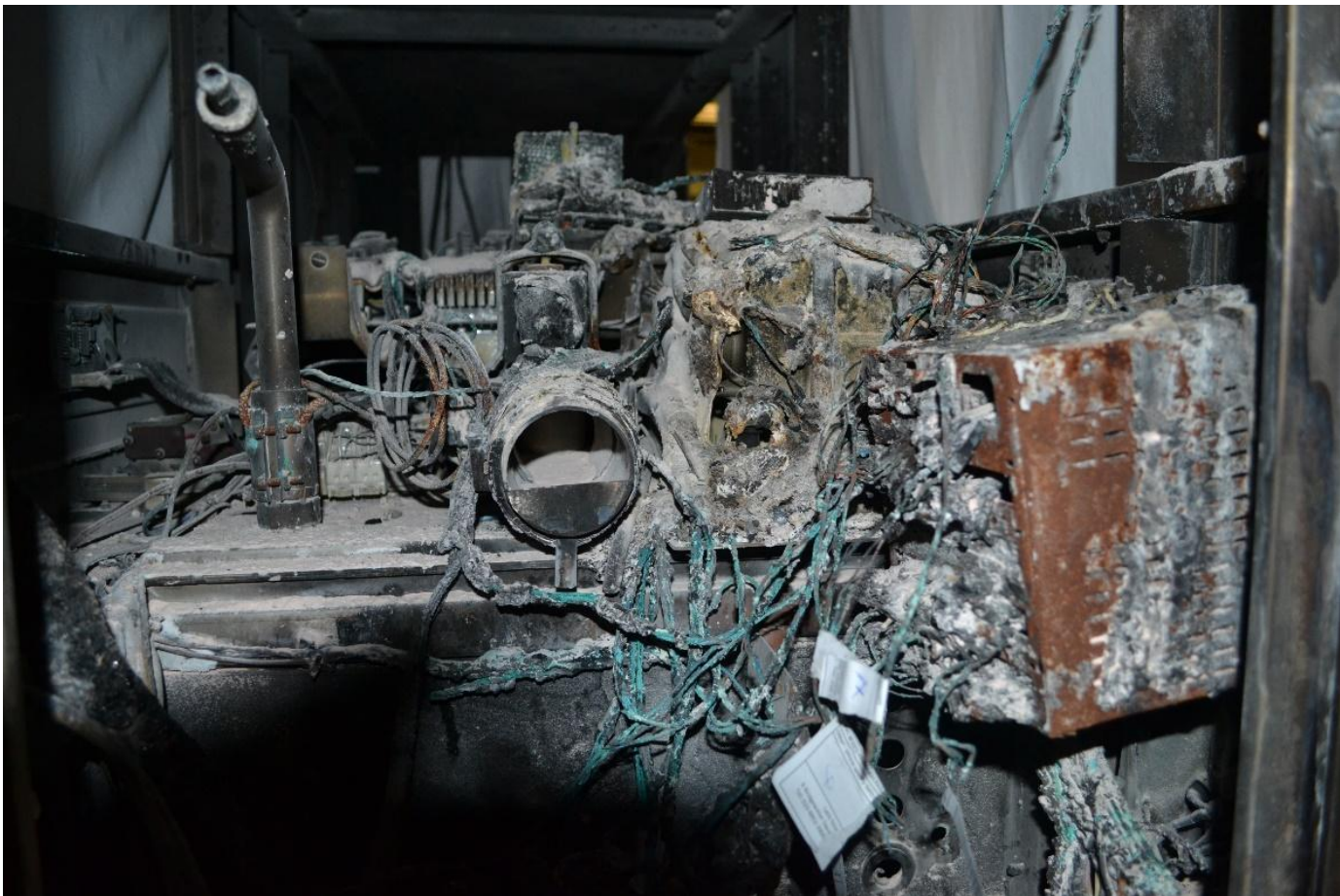
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At the time, attempts to use portable extinguishers proved fruitless. Thankfully, Fire & Rescue services extinguished the fire - however it was much too late, and the irreparable damage was done.



Product Certificate No. 1417a



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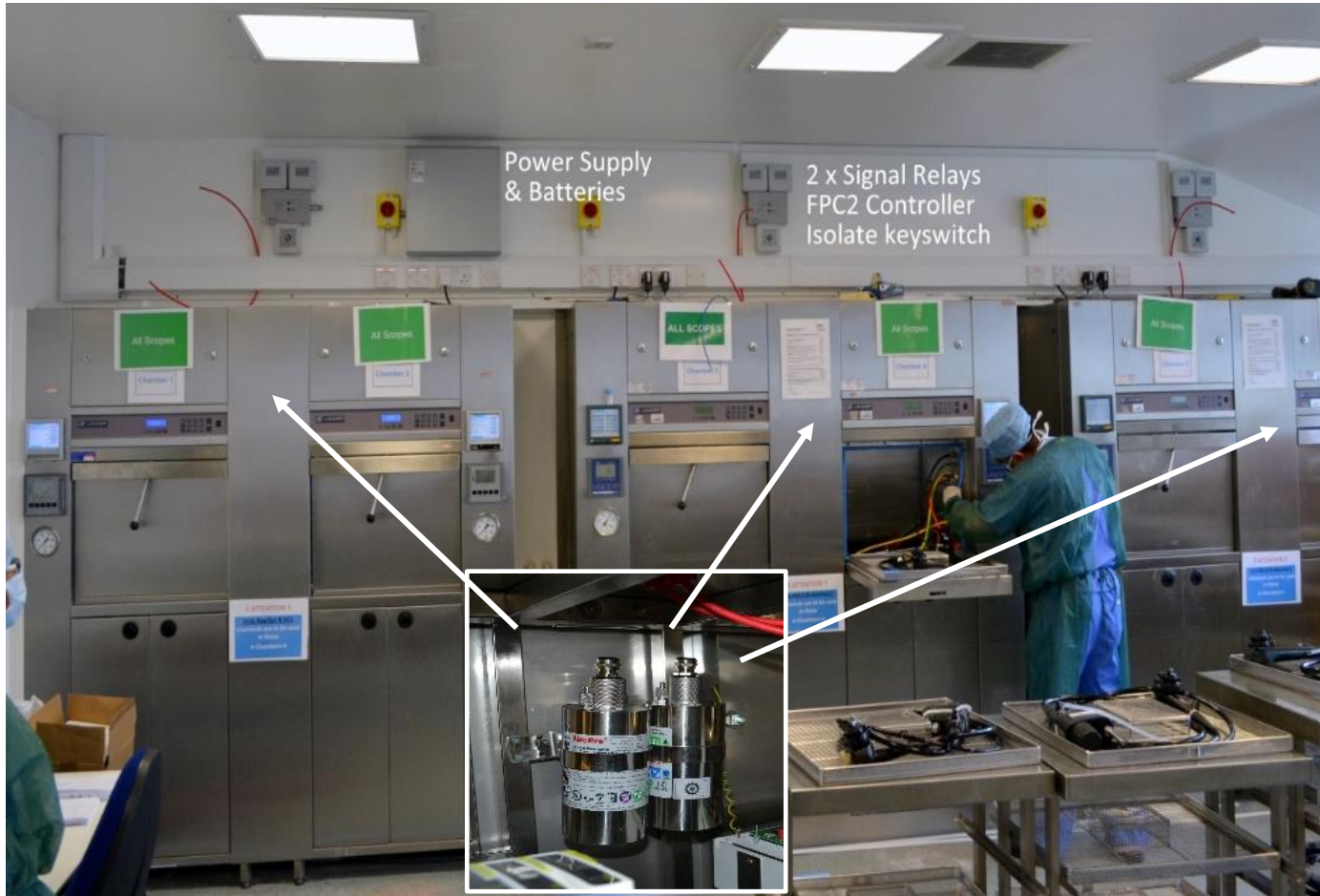
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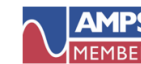


The machines were located on the 4th floor. Water damage caused extensive disruption to areas a long way from the actual room that required full sterile clean and redecoration.

Prior to the installation of a replacement machine, the Trust consulted their fire systems specialist to explore solutions to avoid a re-occurrence. FirePro UK identified the internal sources of ignition as the motors and solenoids and tabled a bespoke solution comprising of a local control module, 24V DC PSU & standby batteries, linear heat detection, and two suitably sized FirePro fire suppression generators.



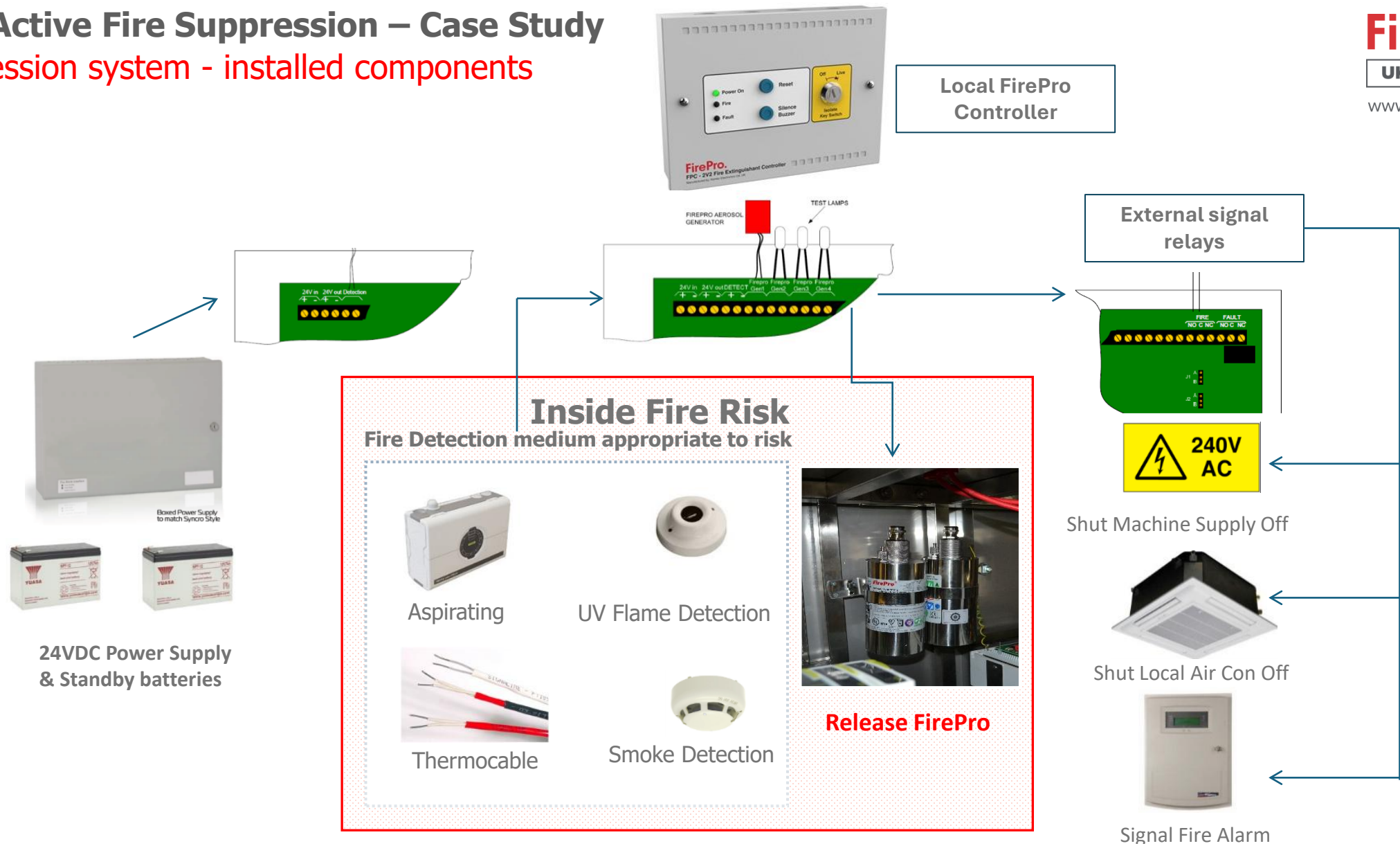
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In Cabinet Active Fire Suppression – Case Study

Fire suppression system - installed components

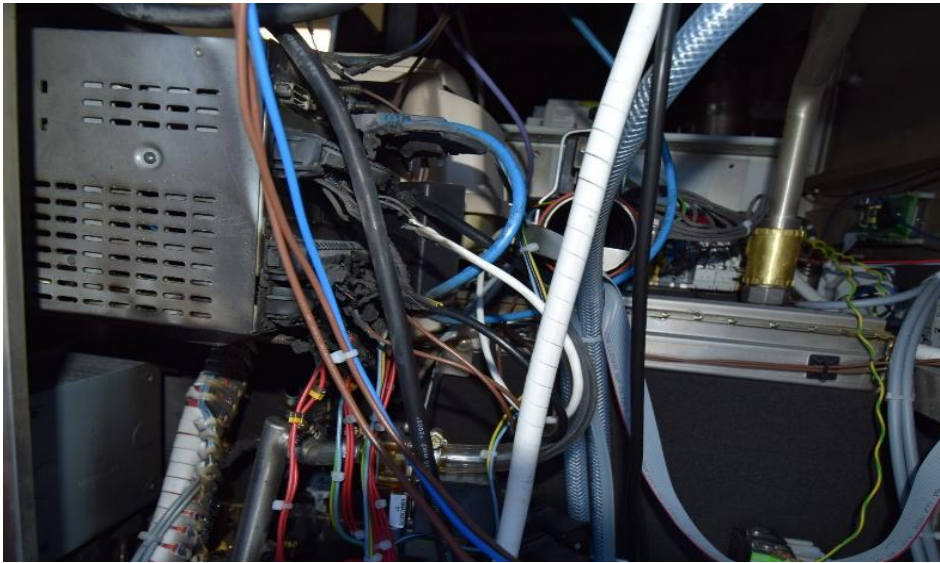


In Cabinet Active Fire Suppression – Case Study

Croydon Universities NHS Trust Hospitals

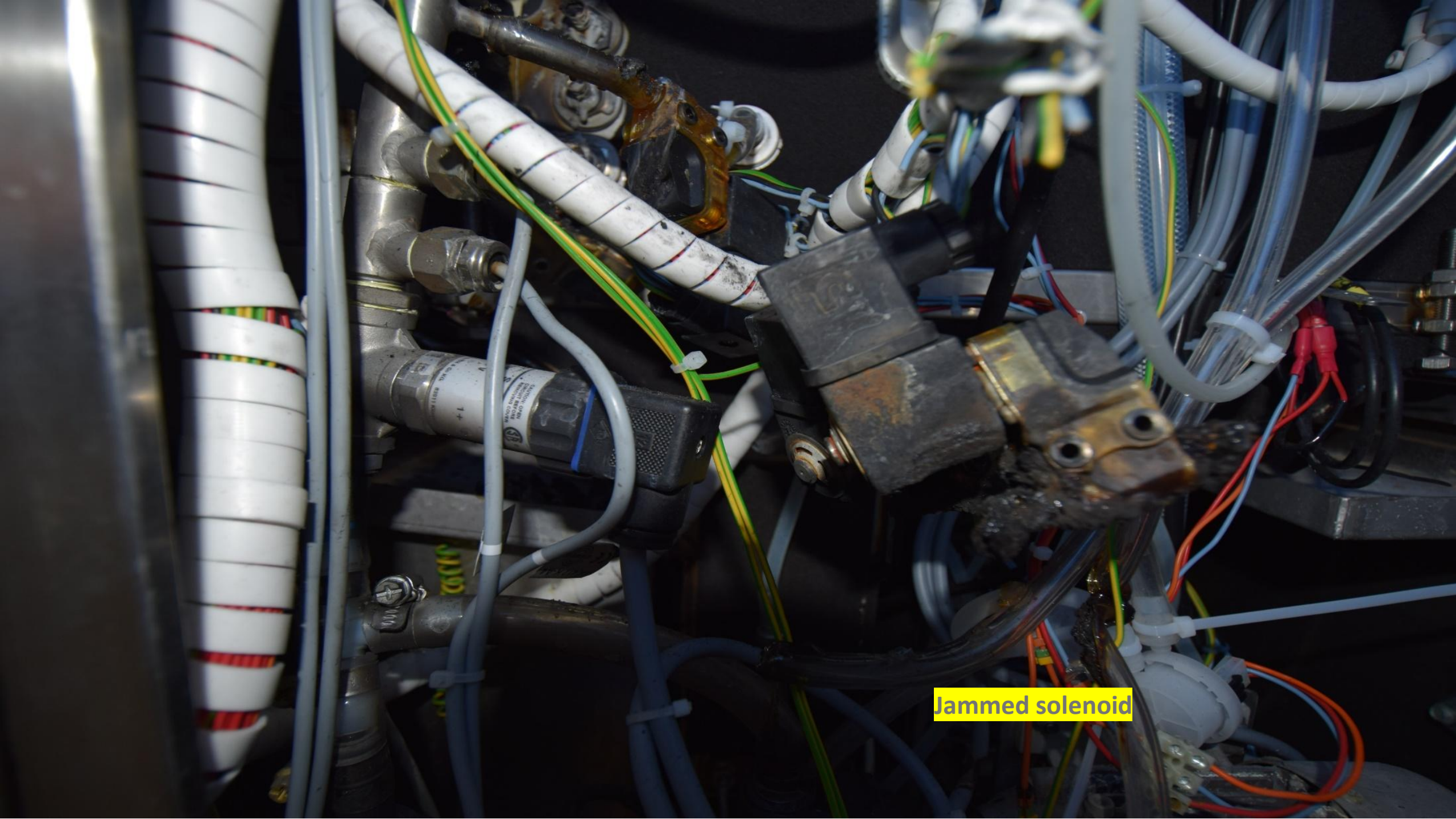


Within **7 months of the FirePro installation a second fire event occurred**. Here is the hospital engineer opening the machinery panels. There is no smoke or water damage. The below and following images show the specific sources of overheating, which triggered the system to function as the design intended, and no fire.

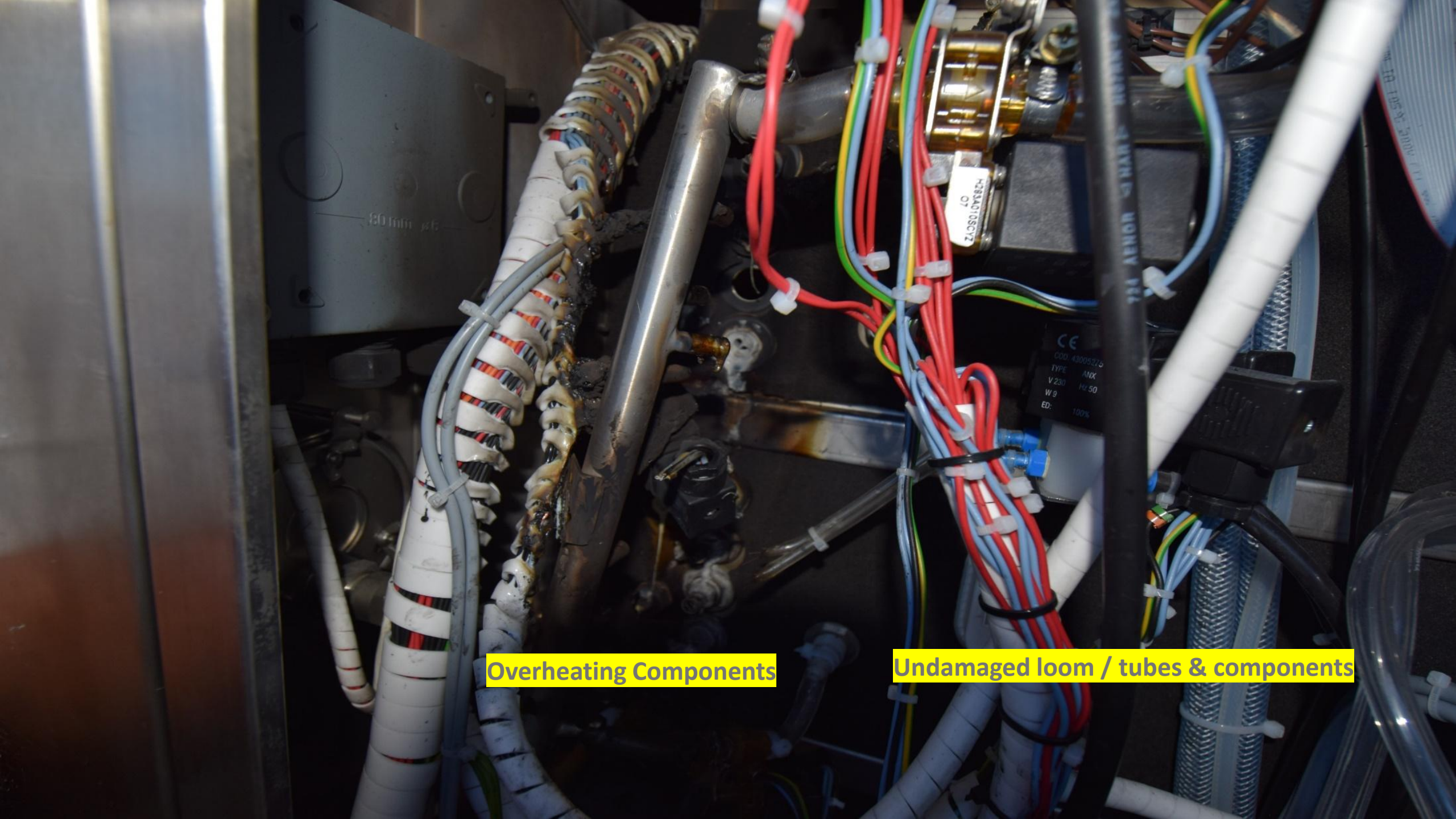


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Jammed solenoid



Overheating Components

Undamaged loom / tubes & components



In Cabinet Active Fire Suppression – Case Study Summary

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At the time of the fire activation, the system design ensured that simultaneously: -

- The FirePro suppression released.
- The local machine supply shut off.
- The local fire doors closed.
- The local air handling shut off.
- Local ventilation dampers closed.
- The fire alarm and BMS system was signalled.

Fire & Rescue attended within 12 minutes however there was no fire to deal with. This enabled the Trust to

- Instruct the machine overhaul repair.
- Instruct re-arming of FirePro (within 2 days).
- Resume patient care operations.



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In Cabinet Active Fire Suppression – Intangible Benefits

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- LFB & Croydon NHS relations improved significantly owing to employing pro-active fire protection measures.
- An investment of circa £8k avoided repeat estimated costs of £250k for post fire clean up operations.
- NHS patient care services confidence regained as cancellation of critical procedures avoided. The Estates team internally recognised for employing solutions to avoid uninsured losses.
- Water and smoke damage interruption to mission critical operations were eliminated.
- The engineered system did not directly comply with any recognised BS/EN Standards as there are none.
- Other bespoke FirePro / NHS opportunities include protection of 'smart' waste bins in public areas.



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Class 'L' Risk







Reinventing
Fire Suppression



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Will FirePro extinguish a Li-Ion Fire?

FirePro.

29 April 2025

To whom it may concern

Dear Sir/ Madam,

RE: FirePro for Li-Ion battery rooms

Li-Ion batteries pose a fire hazard which is not yet included in the test protocols of standards of fire extinguishing / suppression systems. At the same time, the use of Li-Ion batteries is growing rapidly and so is the demand for mitigation of the associated fire hazard.

In the absence of standardized test protocols, FirePro Systems started a testing program for Li-ion batteries about 8 years ago. The program includes so far nearly 100 tests with various li-ion battery types, electrolytes, anode, and cathode composition, geometries, capacity, state of charge and ways of inducing the thermal runaway. The tests were conducted with or under the supervision of certification bodies, accredited laboratories and prominent battery manufacturers. The results have proven the efficacy of the FirePro technology and its capability to knock down the flames, reduce the temperature and control propagation of thermal runaway to adjacent packs/ batteries.

Yours faithfully,



Demetris Constantinou
Commercial Director



Case Study Evidence – Li-Ion Power tool battery charging unit

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This is a purpose-built fire-rated power tool li-ion battery charging cabinet. In similarity to the Endoscopy machine the enclosure has FirePro installed internally.

The floor area below the cabinet is scorched from significant heat build up owing to an internal li-ion battery explosion.

The engineering fire strategy for activation is an internal point smoke detector, and the system design (by others) ensured that simultaneously:

- The FirePro suppression released.
- The local machine supply shut off.
- The fire alarm and BMS system was signalled.

The full circumstances of the event are unknown however, the cabinet contents post fire DO reflect the manufacturer's performance statement.



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Case Study Evidence – Li-Ion Power tool battery charging unit



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Yours faithfully,


Demetris Constantinou
Commercial Director



**No heat or fire spread to remaining contents
- All in tact inc power socket at rear**



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White Paper



Obsolete co2
Retrofit

Our latest White Paper is out!

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Continuing efficacy of high-pressure cylinders, leak-free pipework, ageing enclosure structures, available product refill infrastructure, suitably competent F-Gas & enclosure door fan test resource and environmental considerations, are just some of the challenges now faced by industry to keep an aged pressurised gas suppression system in good working order, ever ready to suppress fire.

Despite best efforts, and correct maintenance, over time, fire suppression products such as FM-200, or CO₂ may become increasingly unserviceable, costly, or commercially unviable as they age.

FirePro UK have released a white paper explaining considerations for this challenge and options to consider in maintaining end extended the life cycle of a fire suppression system, without detriment to cover or increase in operational costs. Read the FirePro UK White Paper [here](#).

The White Paper is supported by [this video](#) in which our Managing Director, Tony Hanley, explains key considerations (based on his industry experience) prior to making any decision on the future of an obsolete or aged pressurised gas fire suppression system.



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References



UK Case Study References

- [Lloyds of London](#). (5 HV/LV Switch rooms- Complete refurb / Retrofit obsolete FM200).
- [The Needles Lighthouse](#) (Retrofit obsolete Co2).
- [NHS Site](#) – Protection of intelligent smart waste bins. (Under NDA).
- [The London Eye](#) – (Retrofit 8 x obsolete FM200 systems).
- [Kokam Li-Ion BESS Units](#) (New containerised battery energy storage installations).
- [Tottenham Hotspur F.C.](#) – (New stadium diesel generator rooms).
- [Tayside NHS](#) (New energy centre – 14 Systems protecting power generation / storage).
- [Chelsea & Westminster NHS Trust](#) – (Transformer rooms).
- [Birmingham Women's Hospital](#) – (2 Generator rooms - retrofit obsolete FM200 systems).
- [East Sussex & North Essex NHS Trust](#) – (3 new HV/LV rooms).



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Next Steps



Application & Desired Operation

- FirePro UK offer a range of support services and products.
- We offer competent fire engineering consultancy services for all projects.
- We also offer field support engineering to support project delivery as required.
- We offer specialist products such as [Li-ion charging safes](#) and [secure lockers](#).
- We can advise on matching suitable installation specialists for project tender.
- Subject to client requirements, [LPS 1204 3.2](#) scheme may be a pre-requisite.
- See FirePro (product manufacturer) [website here](#) & [technical prospectus here](#)
- See FirePro UK (UK & Ireland Master FirePro Distributor) [website here](#)



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Next Steps



Here to help – Our lead contact info

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Lucy Bates	Business Admin Manager	Lucy.bates@fireprouk.com



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