

# FirePro.

**UK & IRELAND**

[www.fireprouk.com](http://www.fireprouk.com)

About FirePro UK Ltd



# About



## FirePro – The Product

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- FirePro is the name of the fire suppression product.
- The terminology for the FirePro product is 'Condensed Aerosol' (CA).
- The FirePro units are available in various sizes. These are called 'generators'.
- The product is manufactured by [FirePro Systems](#) in Limassol, Cyprus.
- The product is sold & supported in 112 countries, worldwide.
- The product manufacturer was acquired by [HALMA PLC](#) in 2024.
- HALMA PLC grows safer, cleaner, healthier futures for everyone every day.
- FirePro is the only CA product in the world with LPCB performance certification.
- In the UK & Ireland FirePro is sold and supported exclusively by FirePro UK Ltd.



Product Certificate No. 1417a



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



# About



## FirePro UK Ltd – Product Support

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- FirePro UK Ltd have been the exclusive UK & Ireland distributor since 2014.
- Our relationship was formed out of direct product experience since 2011.
- We assisted the manufacturer with UK LPCB product certification in 2022.
- We are responsible for training and approval of specialist installers (circa 40).
- BRE adopted our draft competency scheme in 2024 (ref LPS 1204 3.2).
- We provide product education and support to insurers, end users, consultants.
- Our UK case study bank includes numerous product applications and solutions.
- We supply & support FirePro and other fire products to our installer network.



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# 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 competency for condensed aerosol fire suppression technology.
- Ambassador for Children's Burns Camp Charity.



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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 comes with a 15-year lifecycle and supplied with 36-month warrantee.



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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 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.....

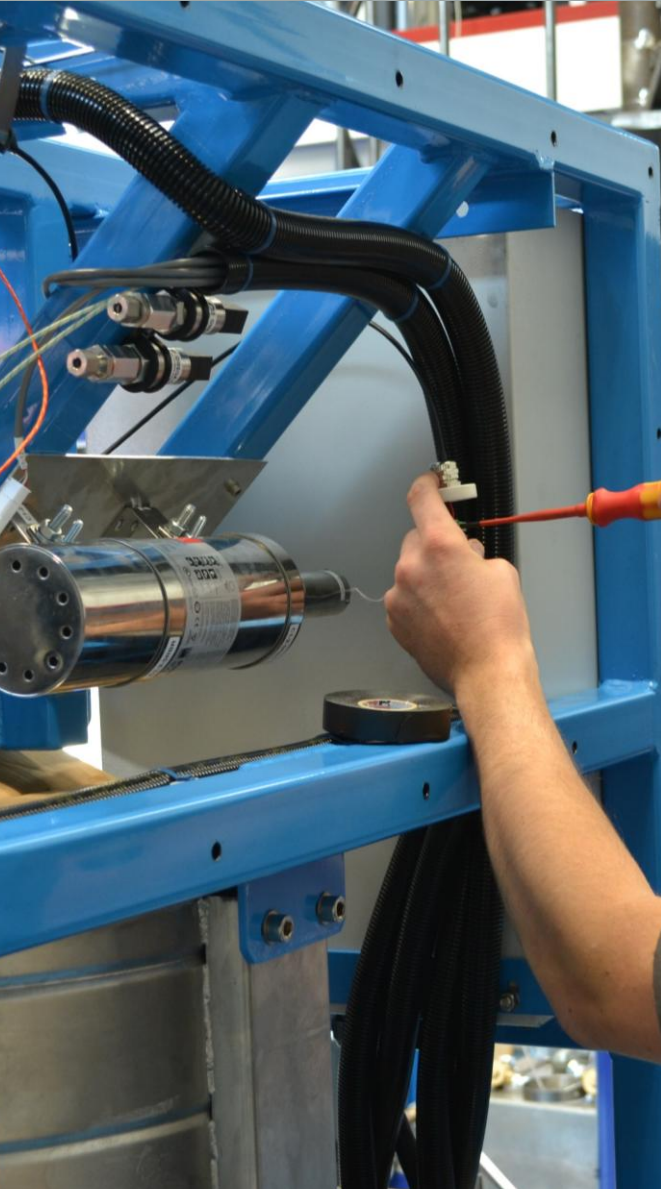


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## System Design Strategy Basics

### 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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# In Cabinet Active Fire Suppression – Case Study

## Croydon Universities NHS Trust Hospitals



*Excellent care for all*

Home | Community | Hospital



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# In Cabinet Active Fire Suppression – Case Study

Croydon Universities NHS Trust Hospitals

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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.



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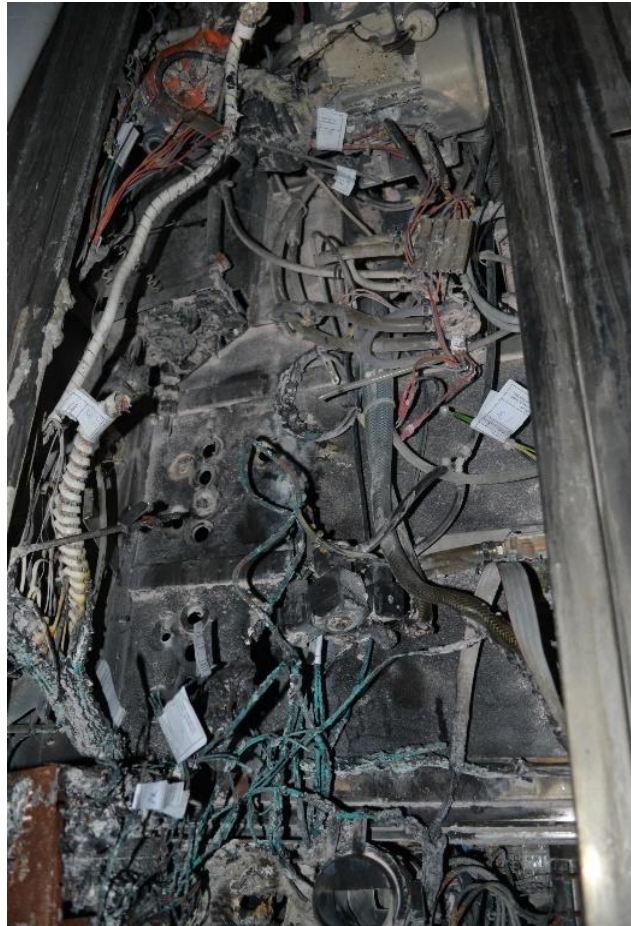
# In Cabinet Active Fire Suppression – Case Study

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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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# In Cabinet Active Fire Suppression – Case Study

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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.



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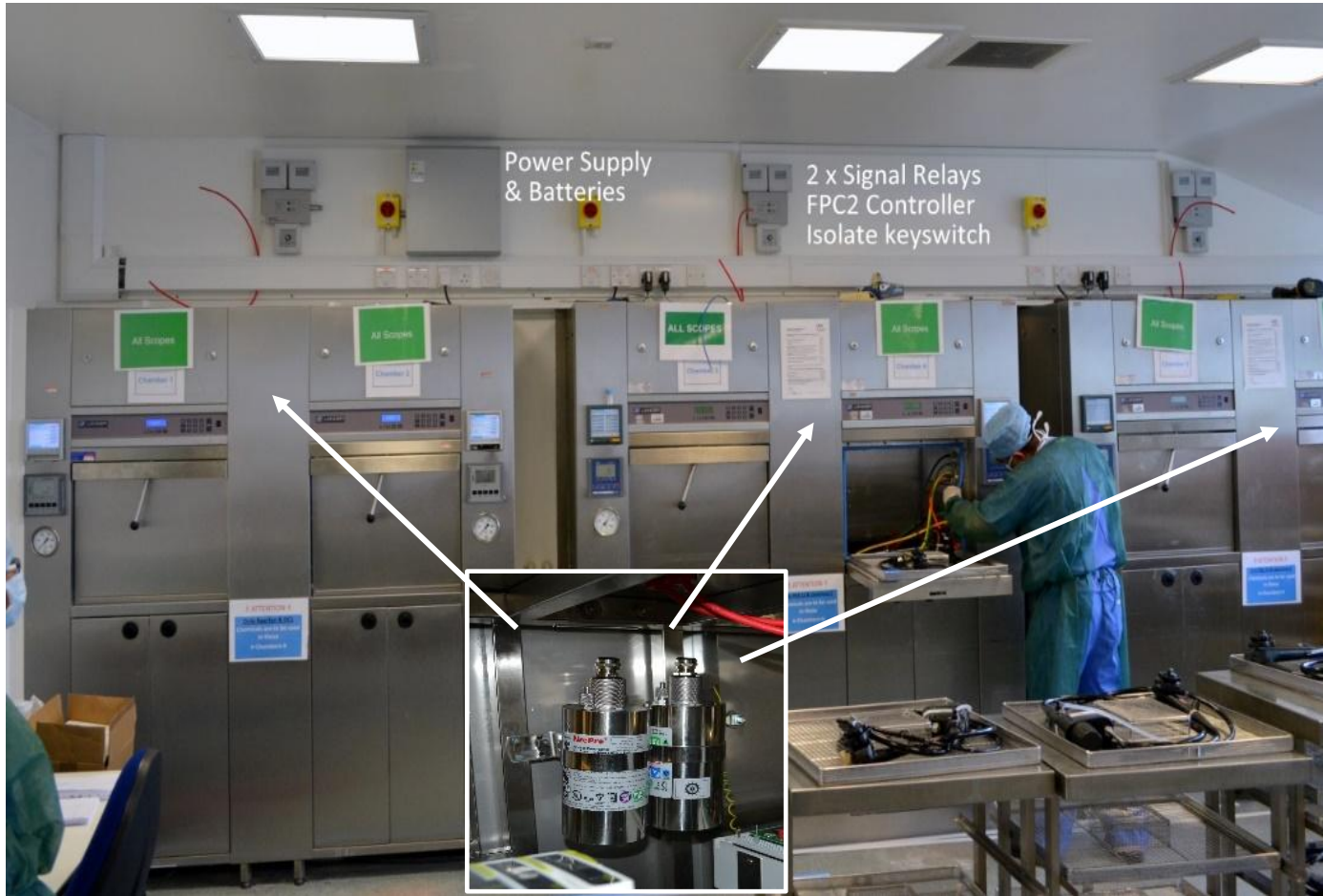
# In Cabinet Active Fire Suppression – Case Study

Croydon Universities NHS Trust Hospitals

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The machines were located on the 4<sup>th</sup> 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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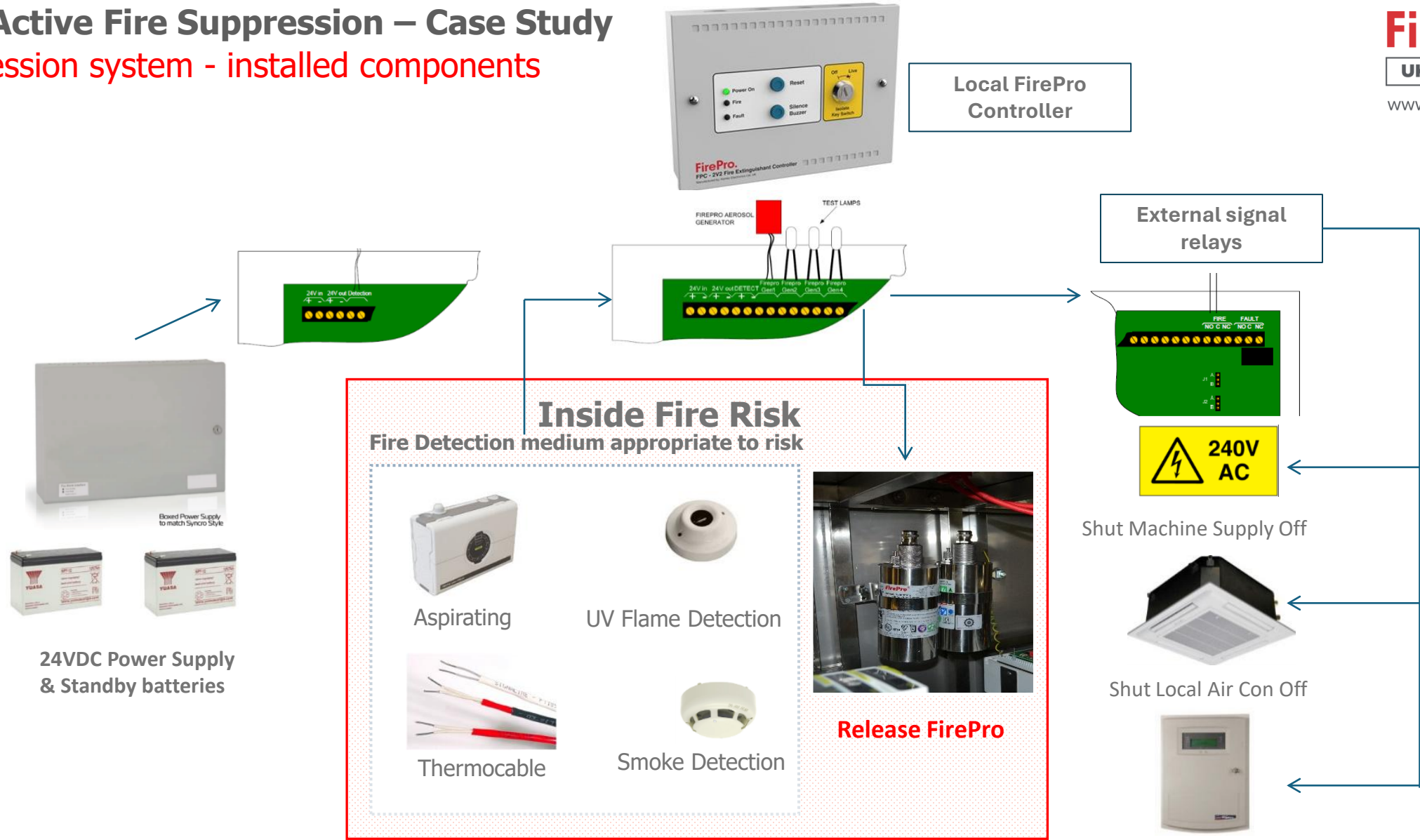


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# In Cabinet Active Fire Suppression – Case Study

## Fire suppression system - installed components



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# In Cabinet Active Fire Suppression – Case Study

Croydon Universities NHS Trust Hospitals

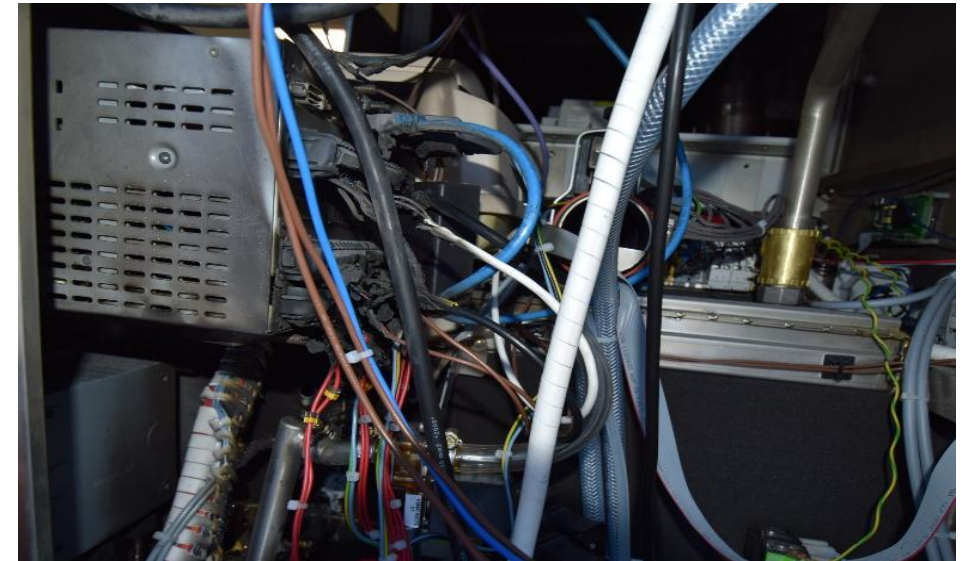
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Within **7 months of the FirePro installation a second fire event occurred**. Here is the hospital engineer opening the machinery panels. There is no smoke or water damage. The below and following images show the specific sources of overheating, which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

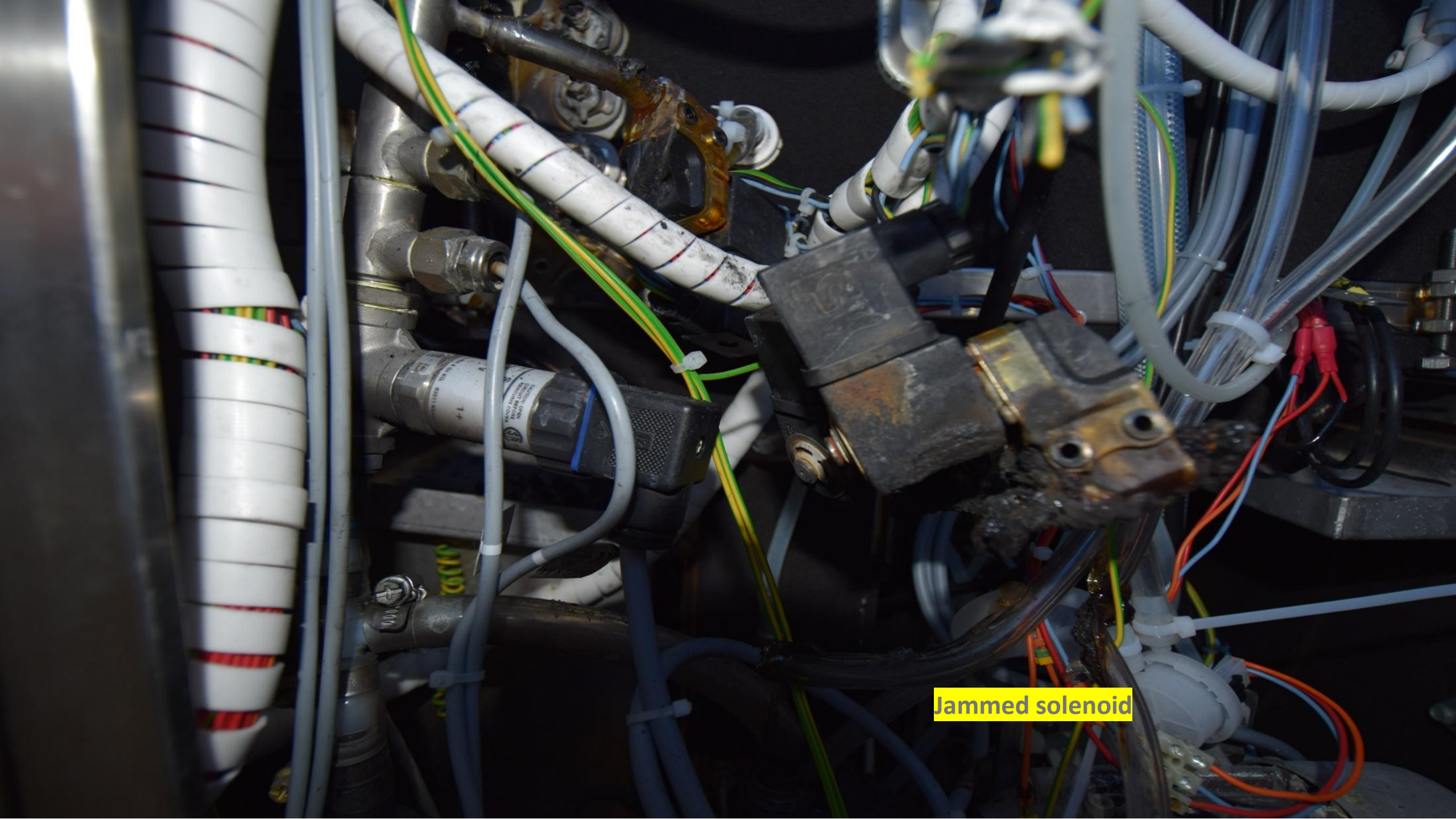


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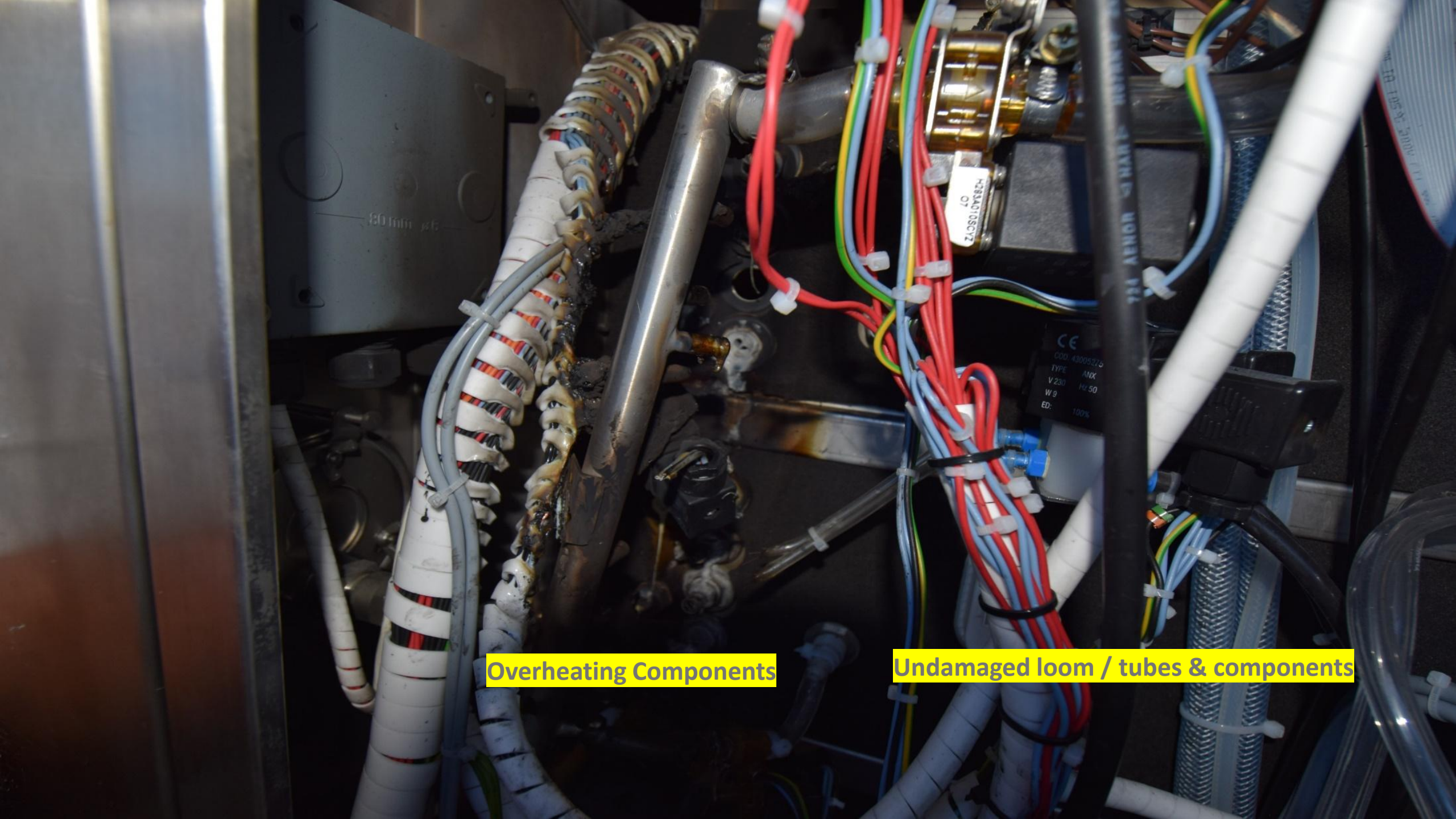


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Jammed solenoid



80 mm

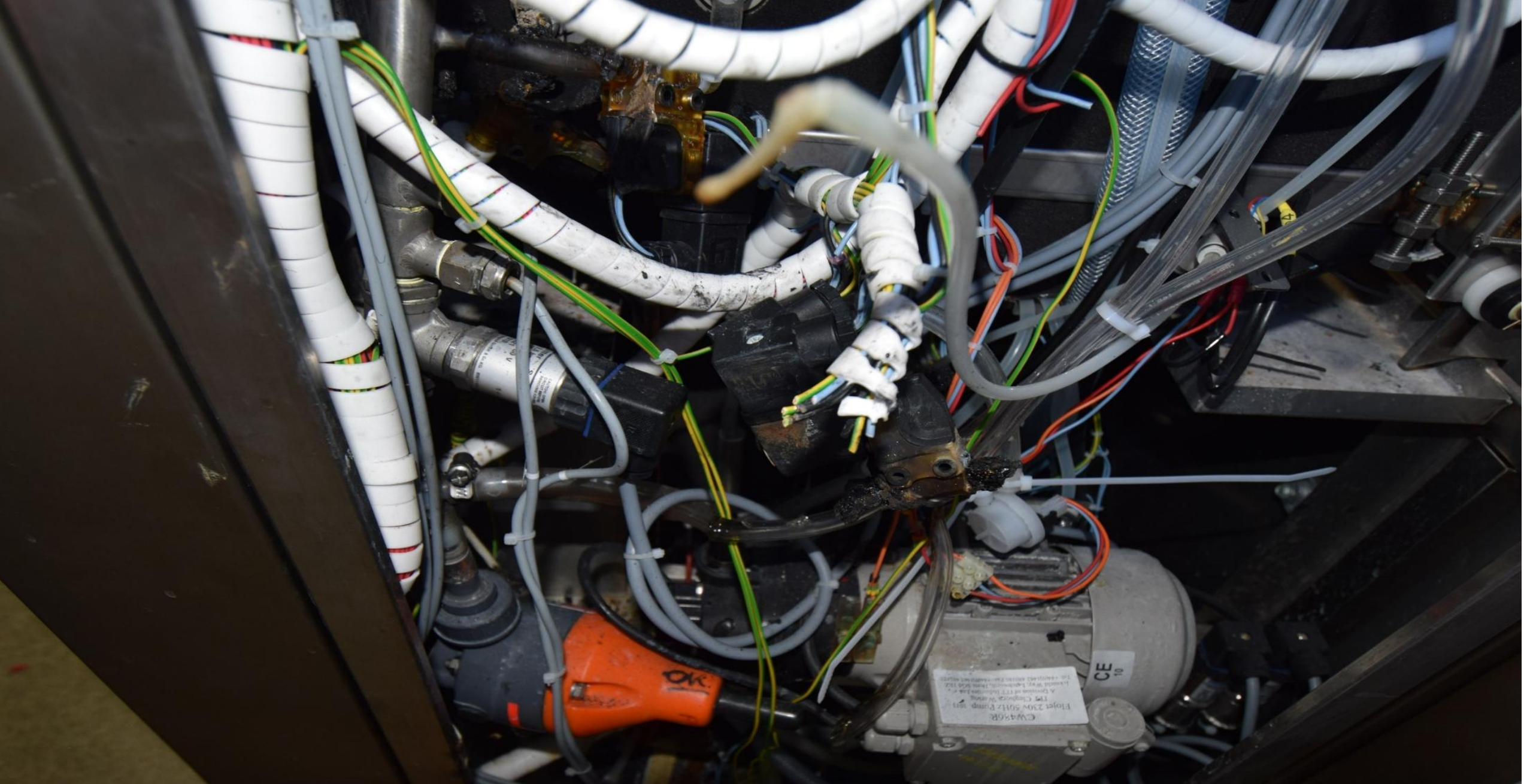
M283A10SCVZ  
07

CE  
COD: 43005276  
TYPE: ANX  
V 230 Hz 50  
W 9  
ED: 100%

750 AMP

Overheating Components

Undamaged loom / tubes & components



Various spots at low level are products of components overheating

# 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



- 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.

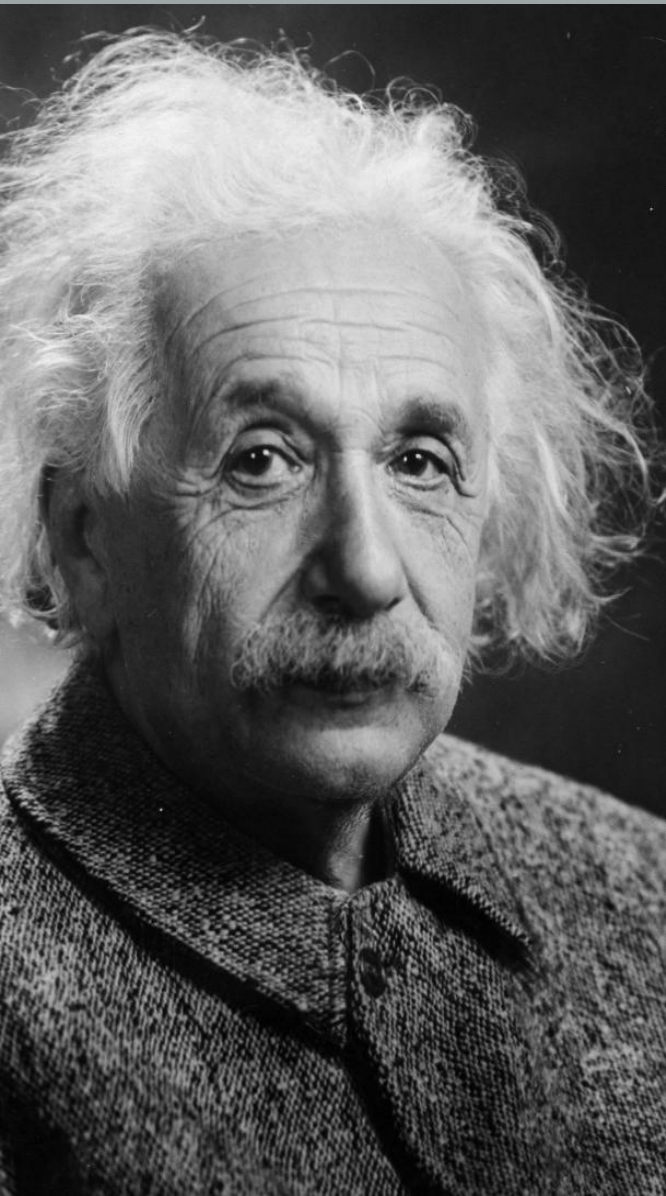


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# Class 'L' Risk



# Will CA 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



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



This 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



**Exploded power tool Li-ion battery**

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



**Spent internal FirePro unit**

**No damage directly below**



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# Walk In



## Sample Application Installations

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Click on the link to virtually walk in various completed FirePro installations –

- [Colchester Hospital – Electrical Distribution Room 1 of 3.](#)
- [Colchester Hospital – Electrical Room 2 of 3.](#)
- [Colchester Hospital – Electrical Room 3 of 3.](#)
- [Global Media Broadcast Co – Diesel Generator Enclosure.](#)
- [Chelsea & Westminster Hospital – Multi Level Plant Room.](#)
- [Chelsea & Westminster Hospital – Transformer Room.](#)
- [NDA Client – Paper Archive Storage Room.](#)



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The CPD Certification Service



Fire Industry Association



IAHF



COMMERCIAL ASSOCIATION

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# References



## UK Case Study References

- [Lloyds of London](#). (5 HV/LV Switch Rooms- Complete Refurb).
- [The Needles Lighthouse](#) (Replacement Obsolete Gas).
- NHS Site – Protection of intelligent waste bins.
- [The London Eye](#) – (Replacement FM200 Systems).
- [Kokam Li-Ion BESS Units](#) (New Installations).
- [Javelin Park](#) (UK's Largest waste to energy facility).
- [Tottenham Hotspur F.C.](#) – Diesel generators.
- [Tayside NHS](#) (New energy centre).



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# Next Steps



## Application & Desired Operation

- FirePro UK offer to support a project team fire engineering strategies.
- We can assist with design development to final system specification.
- We can also liaise with all stakeholders to provide suitable assurances.
- We can also assist with shortlisting installation specialists for tender.
- We also offer field support to run in parallel with project delivery as required.
- Subject to client requirements, [LPS 1204 3.2](#) scheme may be a pre-requisite.
- See FirePro (product manufacturer) [website here](#)
- See FirePro product [technical prospectus here](#)
- See FirePro UK (UK & Ireland Master FirePro Distributor) [website here](#)



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# Next Steps



## Here to help – Our contact info

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