FirePro.
UK & IRELAND

CASE STUDY

Croydon Universities NHS Trust Hospitals

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E sales@fireprouk.com
W www.fireprouk.com

In Cabinet Active Fire Suppression for Fire Risks on NHS Premises

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This bank of 6 machines sterilise medical utensils by way of special cleaning process delivered at very high temperature and are critical for patient care services.

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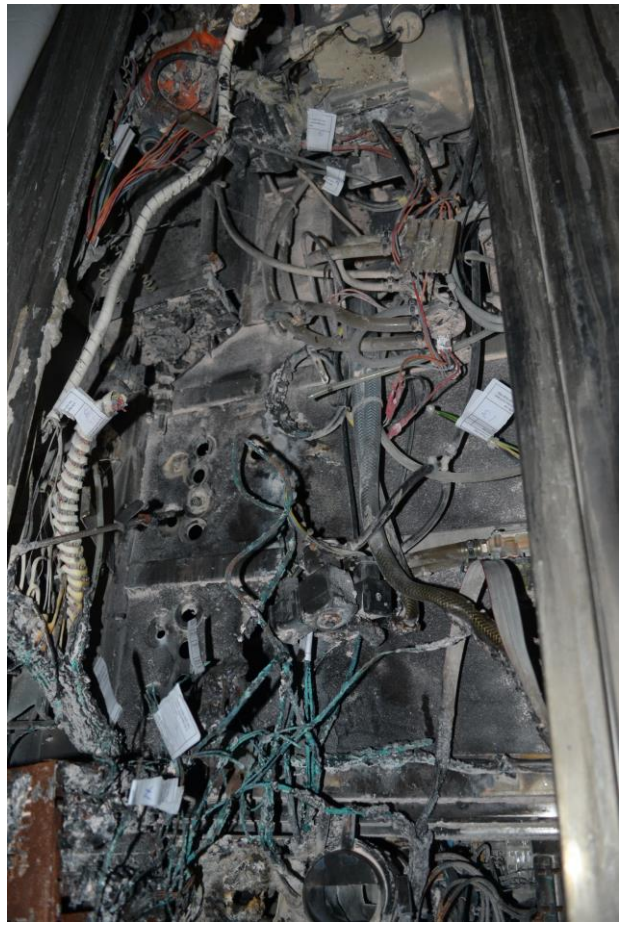

This is one of the machines following a serious internal fire which resulted in significant water and smoke damage as well as the loss of the machine and critical patient care services

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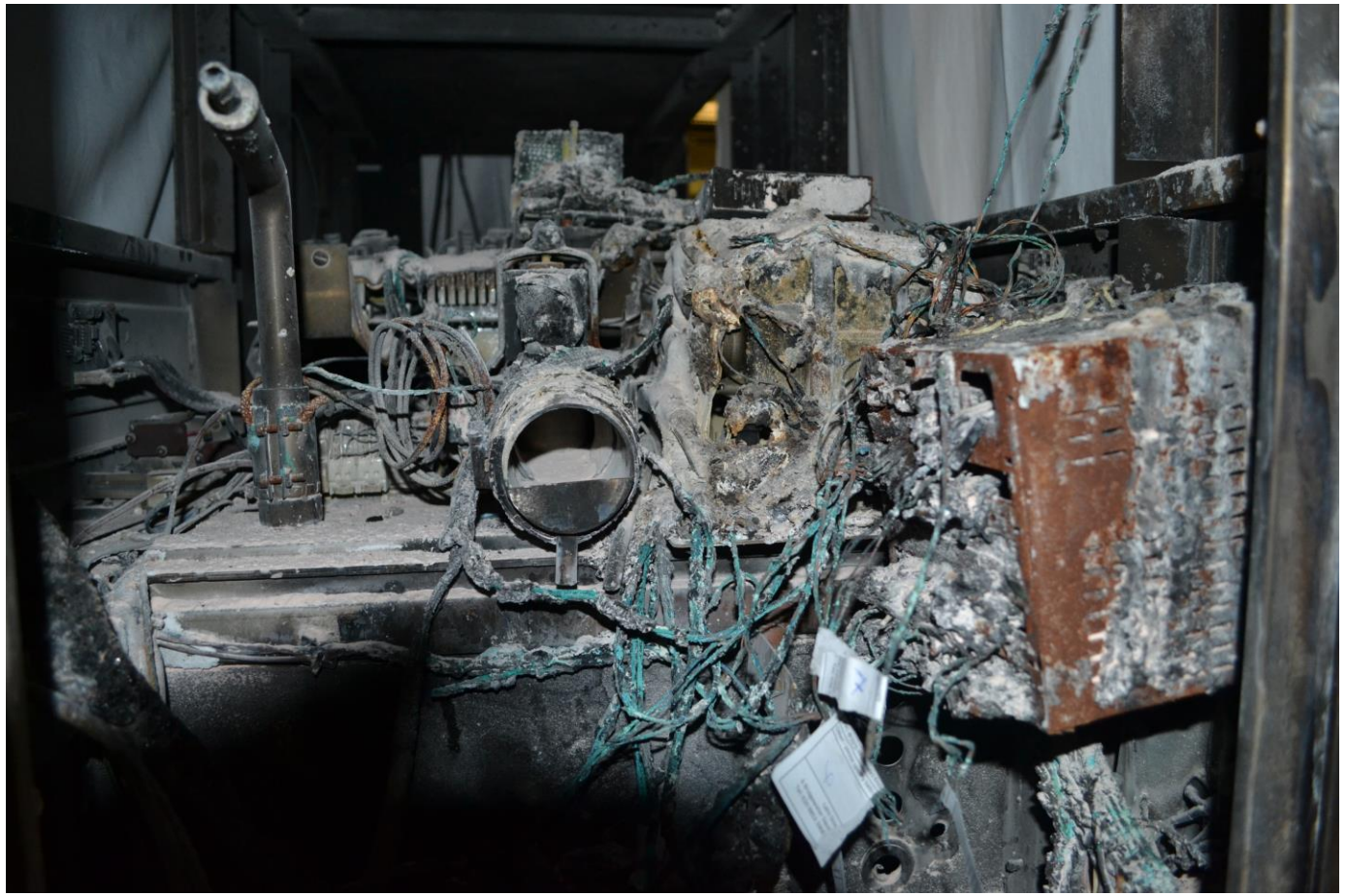
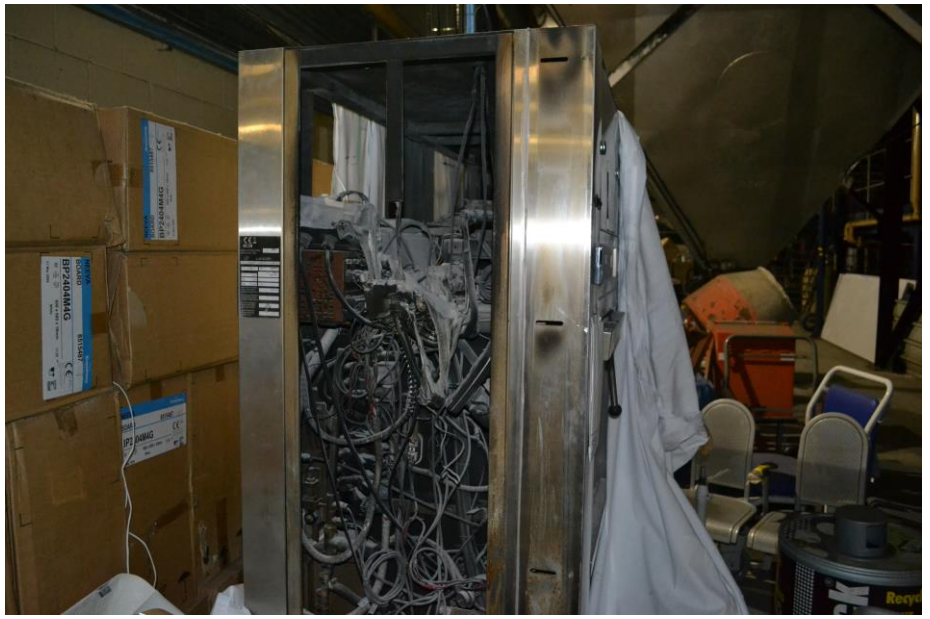


Attempts to fight the fire with portable extinguishers proved fruitless. Thankfully, Fire & Rescue services extinguished the fire, however it was much too late and the irreparable damage was done.



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The affected room and adjoining areas were cleaned and redecorated, and a replacement machine was ordered. The machines were on the 4th floor, so water damage was extensive.

Prior to the installation, the Trust consulted their fire systems specialist as to what measures might be employed to mitigate a serious re-occurrence.

The sources of internal ignition were identified as the motors and solenoids.

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The proposed fire detection and automatic suppression system met client requirements and incorporated fire engineering basics, such as battery backed / monitored power supply, fault monitored circuitry and remote signalling to various ancillary plant.

Localised fire detection and suppression is not new, however enclosure integrity may cause limitations when traditional mediums such as pressurised gas are used.

This was not an issue for FirePro, as it installed internally to afford maximum effective protection, at minimal cost.

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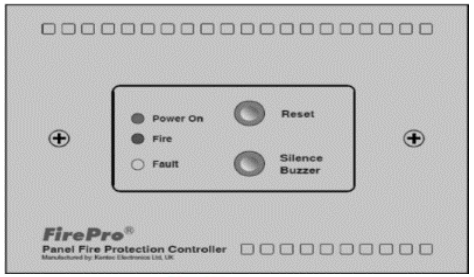
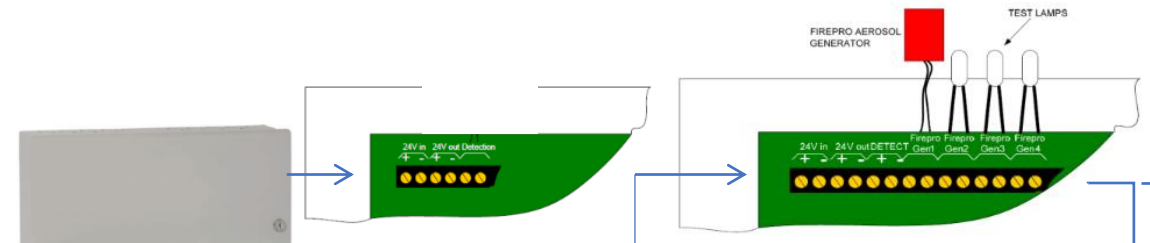
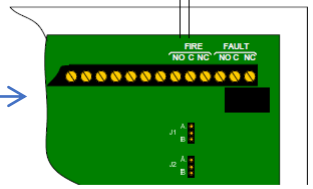




24VDC Power Supply & Standby batteries

External signal relays



240V AC

Shut Machine Supply Off

Shut Local Air Con Off

Signal Fire Alarm

Inside Fire Risk

Aspirating

UV Flame Detection

Linear Heat Sense

Smoke Detection

Any form of Suitable Fire Detection

Release FirePro

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Replacement machine installed

All now protected internally

Patient care service resumed

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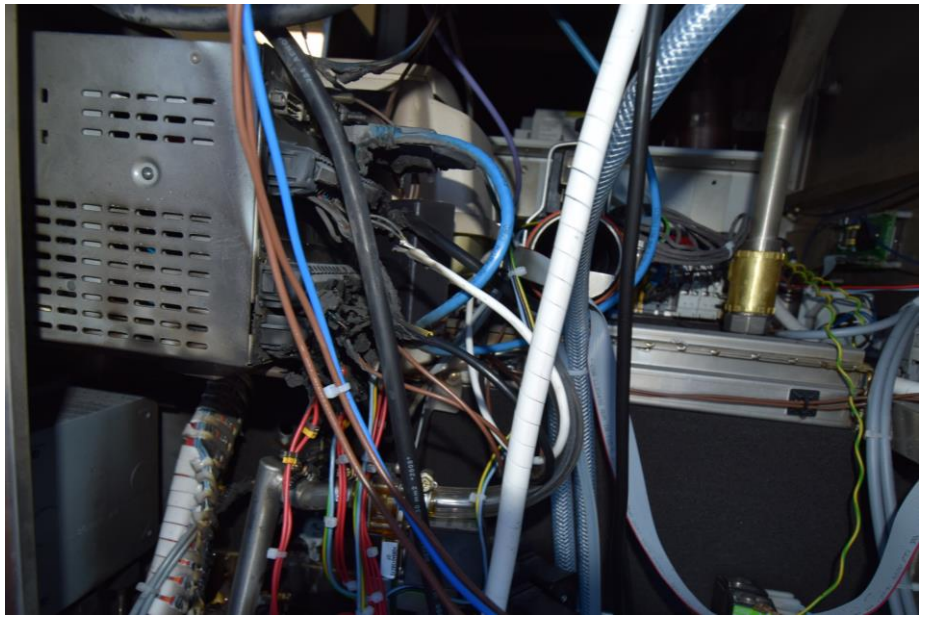
Within 7 months of installation a second fire event occurred – however it was a very different story – Here is the hospital engineer opening up the machine access panels



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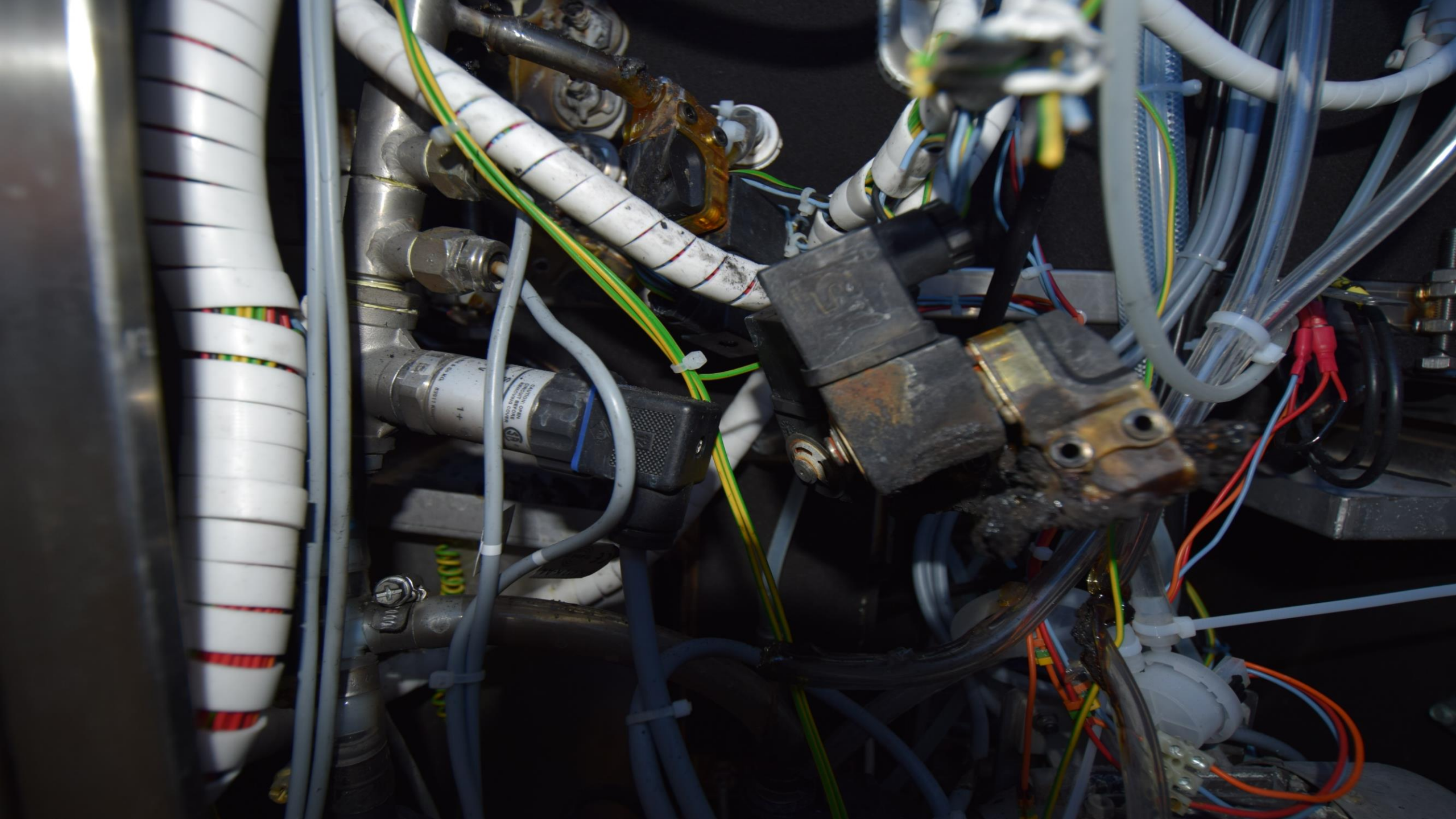

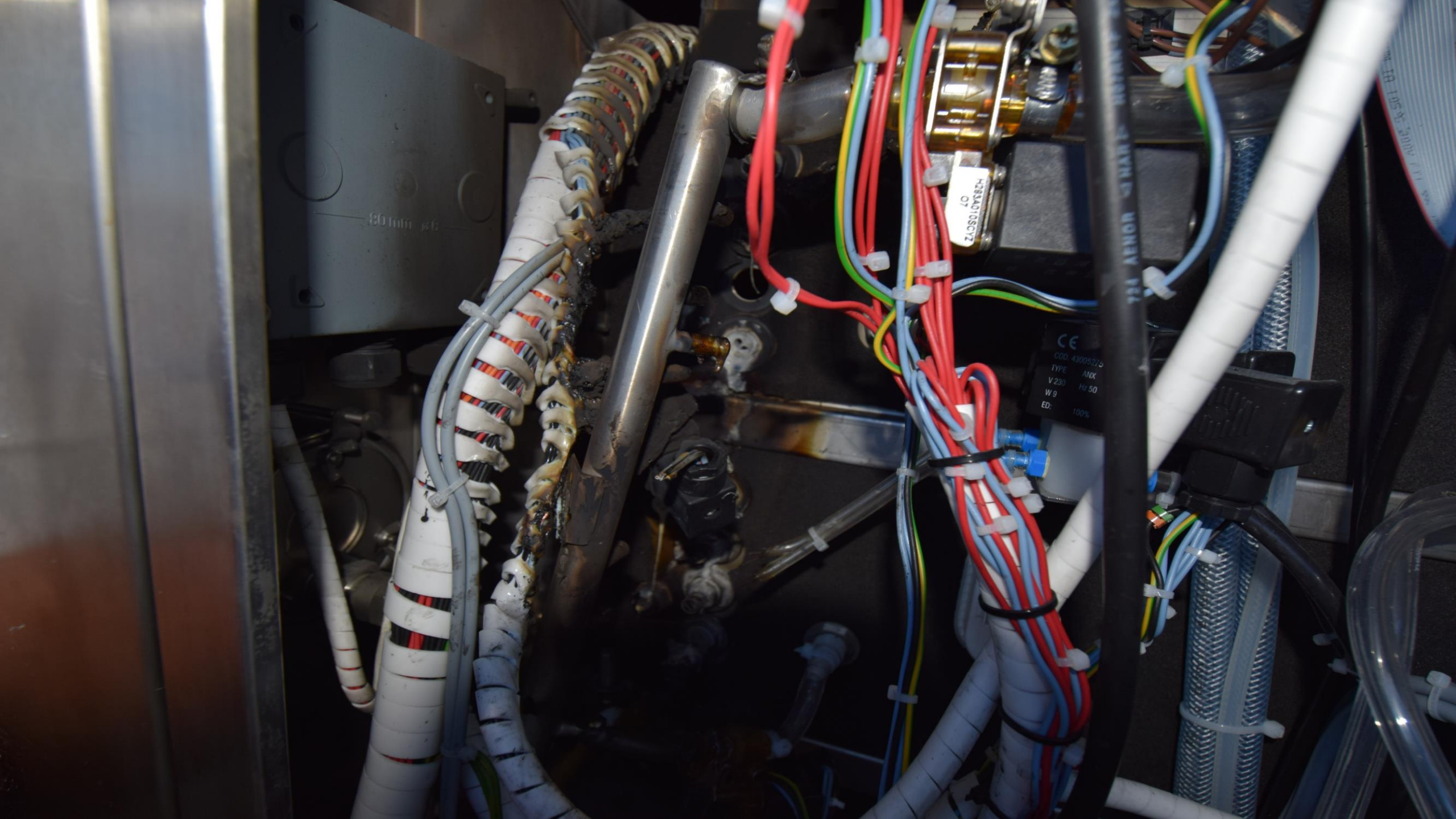
80 mm ø6
CE
COD. 43005228
TYPE ANX
V 230 Hz 50
W 9
ED: 100%


CW4RGR
Eliotet 230V 50HZ Pump
CE


Invensys
Foxboro
DI6-230V

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Post fire –

- Machine overhauled & repaired
- System re-armed with FirePro
- Patient care resumed

In conclusion - installing local fire detection & suppression within the risk -

- Avoided a repeat major fire event
- Minimised patient care disruption
- Saved precious Fire & Rescue resources
- Significantly reduced clean up cost
- Enhanced estates team reputation
- Improved relations between NHS/LFB
- Firm evidence that the system works

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Thanks for your attention

Any Questions

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