

FirePro.

UK & IRELAND

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Case Study: Big Belly Smart Bin Client : NDA Client

Project

Provide automatic fire detection and fire suppression inside a public smart waste compactor bin located on NHS premises.

The request was made following a fire risk assessment for which FirePro UK were able to tailor a solution to meet and exceed client needs.

The restricted space around the compactor and bin opening, required precise positioning of the FirePro FP20 unit to ensure that the suppression agent discharged directly into the waste storage area, while avoiding interference with the moving compactor components.

Achieving the correct mounting height and angle was critical to ensure optimal agent dispersion, safety, and ease of maintenance access. Too low would interfere with system effectiveness and creating an obstruction, too high would have caused the agent to impact the compactor walls and bin opening, compromising performance. This was solved by the FirePro UK team.

Client Comment

“By installing localised fire suppression, at a very low cost, the client is satisfied that this measure has assisted in achieving our aims of reducing the risk of harm to all relevant persons whilst on our premises”

Marcel Heynike, Maintenance Manager

Why FirePro?

Voltaire was an influential thinker during the Enlightenment period. His saying 'Let not the imperfect be the enemy of the good'. Smart public waste bins are now installed almost all over the world. They provide real time reporting of waste fill status and mechanically compact the waste to ensure collections are only made when necessary. This provides immense efficiency in cost and resource management.

A UK NHS Hospital Trust committed to installing a large quantity of the smart bins, in the general public circulation areas outside, but also identified there was a fire risk from inside the bin itself, such as careless cigarette disposal, depositing lithium-ion cells, or even arson attack. FirePro UK were approached with the request to provide automatic fire detection and suppression within the waste bin.

An FP20 standalone FirePro unit with bulb thermo actuator head was proposed and installed. This gave a high degree of flexibility, enabling precise orientation and angling to ensure effective and consistent fire suppression coverage across the surface risk area, without compromise to the compactor mechanism. It was also on the strict understanding that we were unable to guarantee a deep-seated fire would be fully extinguished, therefore something was better than nothing.

Installation was quick and straightforward, with each unit typically fitted in under fifteen minutes which minimised disruption. The design also facilitated quick simple inspection and maintenance so that the FirePro unit could be easily accessed, removed, or reinstated when required. In addition, the robust construction of the FirePro unit, combined with the protected inward-facing orientation of the Bulb Thermal Activation (BTA) device, significantly reduced the risk of accidental impact, vandalism, or environmental damage. The client was satisfied that by installing FirePro they had reduced the risk of harm caused by fire to the general public.



- FirePro is the only LPCB certificated condensed aerosol fire suppression product in the world.
- It is supplied as standard with a 3-year warrantee and 15-year certificated lifecycle.
- This is just one example demonstrating how FirePro may be engineered to protect critical assets against fire.
- FirePro is supported throughout the UK & Ireland by a network of more than 45 specialist support product ambassadors.
- FirePro UK offer a range of services that include system design, supply and support of FirePro and associated products.



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

