FirePro.

TU Delft University of Technology

Location: **Europe** Distributor: **FirePro Benelux** Application: **Lithium Ion Battery Storage** Industry: **Custom R&D**

TU Delft
Delft University of Technology

Delft University of Technology, or simply TU Delft, is one of Europe's largest public universities of its kind. TU Delft dates back to 1842 when King Willem II of the Netherlands founded the Royal Academy for engineers and civil servants. It is one of the most reputable and consistently Top 20 ranking universities worldwide for engineering and technology.

The Task

The technology, performance and safety characteristics of Li-Ion batteries are constantly evolving. However, it has been found that Li-Ion batteries can pose a fire hazard. Consequently, as demand for the batteries grows, so will potentially the related fire incidents. For the storage and transportation of Li-Ion batteries TU Delft uses a special container that therefore requires to be protected by a suitable fire suppression system.

FirePro Generators used:

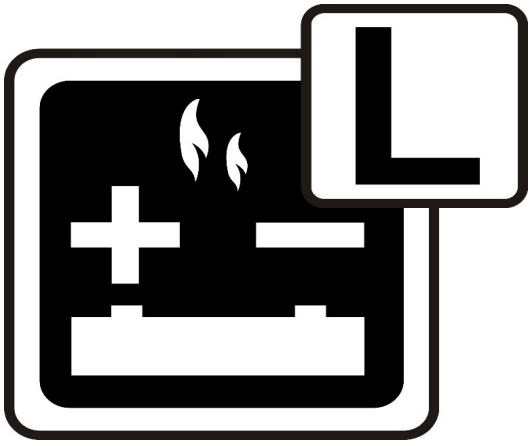
FP-200

Risks Involved & Consequences

Mechanical damage or shock, electrical defects, abuse charging and/or high ambient temperatures can cause Li-Ion batteries to undergo thermal runaway. This in turn can create overheating and the release of flammable gases/vapours that can lead to fires and or occasionally explosions. In such scenarios lives may be threatened as well as cause damage to equipment that result in operational down-time and financial losses.

Why FirePro?

FirePro's modularity, compactness and autonomy are ideal for this new application. Our technology has been tried and tested by accredited laboratories and Li-Ion battery manufacturers, where it proved its effectiveness in even the worst-case fire scenarios. FirePro's technology is backed by the most respected industry certifications and the experience gained from its use in a vast number of industrial applications.



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Results of Implementation

FirePro Benelux designed, tested and delivered to TU Delft a solution according to KIWA guidelines and protocols. FirePro systems protect the specially engineered TU Delft containers from Li-Ion battery fire scenarios including those where the batteries transported are subjected to mechanical shock due to vibrations.

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