

BATTERYBOX

Safe Battery Charging

veiligfietsaccuopladen.nl | sicherbatterieladen.de | safebatterycharging.com



BatteryBox is an innovative fire safety cabinet that meets the VDMA requirements. One of the requirements prescribed by the VDMA guidelines is a smoke exhaust. The urgent advice to opt for smoke exhaust (with outlet to outside air) when installing charging lockers indoors is multiple:

We live in a world where lithium-ion batteries are increasingly being used as a powerful and efficient energy solution, but they also entail unique risks. In the event of an incident, such as overheating or a fire, these batteries can release a range of dangerous and toxic substances. What is actually released during a battery fire?

This very specific fire releases extremely dangerous chemicals, such as hydrogen fluoride (HF). Research shows that the concentration of HF in smoke from battery fires can rise to 600ppm, a level that is well above the dangerous concentration for life and health (IDLH) of 30ppm. Hydrogen fluoride is an extremely aggressive acid that can cause serious damage to people and the environment, but is also very difficult to neutralize.

These Li-ion batteries often contain a substance that contains fluorine compounds. In the event of thermal runaway or major degradation, in addition to HF, other toxic gases such as hydrogen (H₂), methane (CH₄), carbon monoxide (CO), ethane (C₂H₆) and ethylene (C₂H₄) can also be released. These gases are not only flammable, but also pose a direct threat to health and safety.

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Is a smoke exhaust essential?

An smoke exhaust system simply has several crucial functions:

- it prevents toxic gases from accumulating in public spaces, which can lead to fatal consequences;
- controlled exhaust significantly reduces the risk of an explosive external fire
- it minimizes exposure to employees, residents and users;
- compliance with strict safety regulations, environmental standards and guidelines becomes easier;
- we continue to have a positive view of the battery, the driving force behind a sustainable mobility revolution;



From Lo Minck International/BatteryControl we give compelling advice for a smoke exhaust! To this end, the BatteryBox is equipped with a fixed connection for a smoke exhaust at the rear (Safety by Design). We are the pioneer of this new standard in battery safety. It fits within our mission to ensure safe charging and storage of lithium-ion batteries, without compromising on performance and reliability. It means that the focus on safety means we have a 100% fire-safe charging solution that has been researched, developed and produced from practice. Your safety is our priority!

The BatteryBox price list contains all the necessary components required for a safe smoke exhaust!

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“Safe unattended battery charging”

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