



LIOSHIELD
SAFETY SYSTEMS

Protect What Matters The Most

- Advanced Thermal Containment - Engineered to withstand and control lithium battery fires.
- CoreSense Monitoring - Integrated PyroBridge and PyroNode sensors for early temperature alerts.
- Ultra-High Heat Resistance - Certified protection up to 1200 °C for critical environments.



About Us

At LioShield Safety Systems, we stand at the forefront of innovation in lithium safety and energy storage protection. Our expertise lies in the design, development, and manufacturing of advanced lithium storage systems and modular safety devices engineered to protect against catastrophic events such as thermal runaway fires. We combine precision engineering with deep materials science knowledge to deliver solutions that safeguard people, assets, and environments in the most demanding applications.

What sets us apart is not just our technology, but our people. Our team brings together diverse cultural perspectives and technical mastery from across the globe –spanning India, Finland, China, and Russia. With strong foundations in mechanical engineering, electrical engineering, and advanced materials science, our specialists unite under one mission: to redefine how the world protects against lithium-related fire risks.

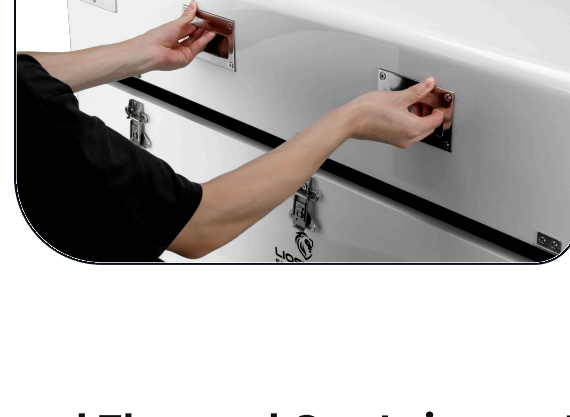
Our Mission

Our mission is simple yet powerful:
To make lithium energy safer for everyone, everywhere.
We strive to provide high-performance, scalable, and reliable safety solutions that not only protect lives and property but also enable the clean-energy revolution to move forward with confidence. At LioShield, we believe that safety is not a compromise—it is the foundation for progress.



1200 °C Fireproof

The PyroSafe series is certified to withstand extreme heat up to 1200 °C, offering unmatched protection against lithium thermal runaway and external fire sources. Even under catastrophic events, the integrity of the storage unit remains uncompromised.

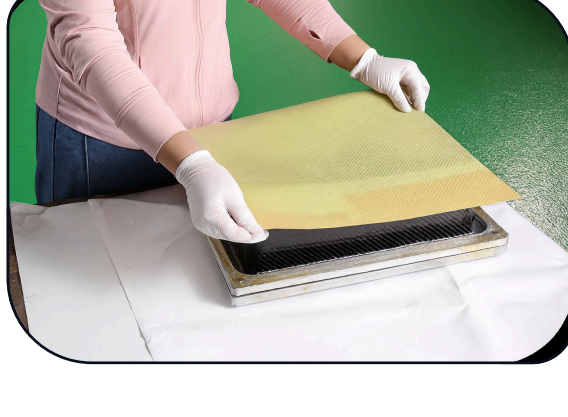


Advanced Thermal Containment

Every PyroSafe unit is engineered to isolate fire and prevent flame spread, using a multi-layer barrier system that absorbs and blocks heat transfer. This ensures that lithium battery fires remain safely contained inside the unit.

CoreSense Smart Monitoring

Equipped with PyroBridge™ and PyroNode™ sensors, PyroSafe constantly monitors internal temperatures. Local alarms trigger instantly when unusual rises are detected, providing early warning before escalation.



Aramid-Carbon Composite Core

The core structure combines aramid fibers for fire resistance with carbon layers for strength, creating a shield that resists puncture, impact, and flame. This advanced composite delivers both safety and durability in demanding environments.

Emergency Venting System

During thermal runaway, trapped gases can increase internal pressure. PyroSafe's controlled venting channels safely release gases while keeping flames sealed inside—minimising risk of explosion without compromising containment.



Local Visual & Audible Alarms

When fire or extreme heat is detected, bright indicators and loud audible alarms activate immediately. These instant alerts allow users to react quickly and take the necessary steps to secure their environment.

PyroSafe Use Case

• PyroSafe S1 – Compact Safety



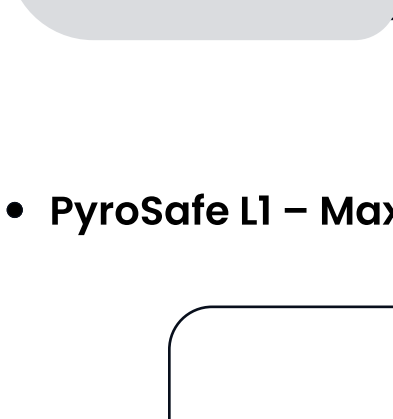
The S1 is designed for smaller essentials like walkie talkies, satellite phones, torches, drone batteries, handheld tool batteries, gas canisters, flares, and other flammable or hazardous liquids. Its compact size makes it ideal for keeping critical gear safe while staying close at hand. With its sober colour palette and robust marine-grade finish, it sits naturally on the main deck or in a cabin, complementing yacht furniture without drawing attention.

• PyroSafe M1 – Mid-Range Versatility



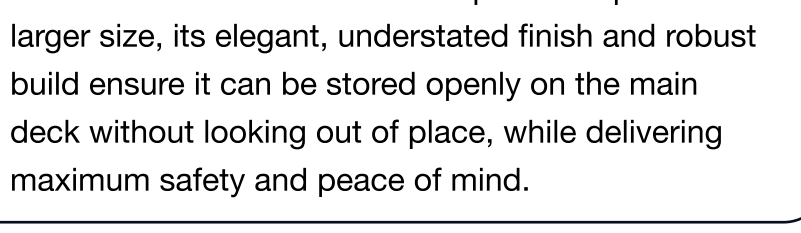
The M1 is the all-rounder in the PyroSafe range. It safely stores 2-4 petrol jerry cans, large removable e-board and e-foils, drone batteries, handheld tool batteries, gas canisters, flares, and other hazardous liquids. Offering more volume while still easy to place on board, it's a balanced choice for crews who need flexibility. With its refined design and strong build quality, it integrates seamlessly into deck layouts and interior storage areas.

• PyroSafe L1 – Maximum Capacity



The L1 is built for bulk storage and heavy-duty protection. It accommodates sea scooters (iAqua, Seabob, SeaNext, Altys), 6-10 petrol jerry cans, large removable e-board and e-foils, drone batteries, handheld tool batteries, gas canisters, flares, and other flammable or hazardous liquids. Despite its larger size, its elegant, understated design and robust build ensure it can be stored openly on the main deck without looking out of place, while delivering maximum safety and peace of mind.

Models & Prices



"The Right Fit for Every Need." – Whether you need portability, balanced capacity, or maximum storage, LioShield has a size for you.

Model	PyroSafe S1 SMALL	PyroSafe M1 Medium (Balanced Capacity)	PyroSafe L1 LARGE (Maximum Storage)
RRSP (Ex-Works)	\$ 3990 € 3395	\$ 5990 € 5095	\$ 8990 € 7660
Geometric Storage Volume	18 Litres / 4.75 US Gallons	120 Litres / 32 US Gallons	335 Litres / 88 US Gallons
Exterior Dimensions L * W * H (mm)*	430 * 330 * 280	680 * 530 * 535	1330 * 605 * 592
Interior Dimensions L * W * H (mm)*	350 * 250 * 200	600 * 450 * 450	1250 * 523 * 508
Approximate Weight (Kg)	7	20.5	40
Maximum Rated Battery Storage Capacity (kW-h)	2	14	18
Storage Uses	- Walkie talkies, satellite phones, torces - Lithium batteries from drones, hand-held battery operated tools and polishing machines - Gas canisters, gas bottles* - Flares - Other flammable and hazardous liquids*	- 2-4 X 25 Litre Petrol Jerry cans* - Large removable batteries from e-boards and e-foils - Walkie talkies, satellite phones, torces - Lithium batteries from drones, hand-held battery operated tools and polishing machines - Gas canisters, gas bottles* - Flares - Other flammable and hazardous liquids*	- Sea-scooters such as iAqua, Seabob, SeaNext, Altys - 6-10 X 25 Litre petrol jerry cans - Large removable batteries from e-boards and e-foils - Walkie talkies, satellite phones, torces - Lithium batteries from drones, hand-held battery operated tools and polishing machines - Gas canisters, gas bottles* - Flares - Other flammable and hazardous liquids*
Inner Materials	High performance Aramid-Carbon Composite		
Core Materials	Ultra-high flame retardant UL-94 V0 rated low density foam		
Outer Materials	High gloss epoxy finished specially formulated glass fiber shell		

* PyroSafe is not designed to contain gas leaks or flammable liquids leakage. It is only designed to contain any fire or flames from coming out.

Colour Options:

Price (Ex-works):

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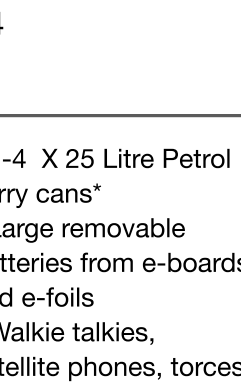
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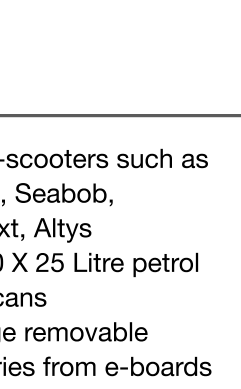
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Check Out how LioShield protects your yacht in action

- Fireproof
- Trusted Globally
- Compact
- Tech-Ready Storage



Watch the PyroSafe at Work



Choose the right size for you - Buy now!