



MODELS LOXK2000

- LOXK2000 STANDARD STORAGE
- LOXK2000 STANDARD
- LOXK2000 ADVANCED
- **LOXK2000 ADVANCED PRO – KIWA CERTIFIED**

* each model was successfully tested with an effective lithium fire under the supervision of KIWA.

Technical datasheet

LOXK2000 ADVANCED PRO



The storage and charging cabinet is designed for indoor use to safely store and charge Lithium-ion batteries, primarily focusing on batteries for electric bicycles, e-scooters, hand tools, drones, walkie-talkies, and similar devices.

GENERAL OPERATION

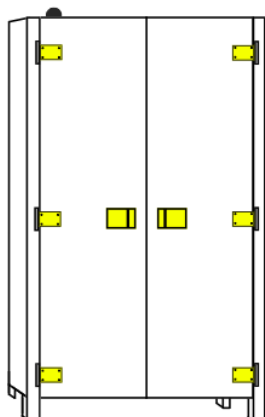
- 90 minutes fire-resistant
- Main functionalities:
 - o Ensuring safe operation
 - o Detecting smoke and fire
 - o Alerting in case of danger
 - o Activating aerosol fire suppression
 - o Controlling Lithium battery fires in the cabinet to prevent fire spread.
- Operation upon smoke detection:

With temperature and smoke detection, we can detect the very first indications of fire danger. In case of smoke development, a signal is sent to the controller, after which the following steps are sequentially executed:

 - o Alarm via siren and red flashing light
 - o Notification to the main fire station if connected
 - Optional: sending SMS/Email via the MyLoxxer platform
 - o Interrupting the battery charging process
 - o Disabling active ventilation
 - o Activating the Aerosol generator



TECHNICAL SPECIFICATIONS



Type		LOXK2000 ADVANCED PRO	
Weight		kg	410
Height	Outer dimension	mm	1.930
	Inner dimension	mm	1.590
Width	Outer dimension	mm	1.141
	Inner dimension	mm	1.021
Depth	Outer dimension	mm	758
	Inner dimension	mm	607
Total height (+ detachable visual alarm)		mm	1.930 (+45)
Power supply standard (Optional)		V	380 (230)
Airflow		m ³ /minute	1.21
Operating temperature		°C	5-35
Relative humidity		%	30-70
Siren sound level		dB(A)	94-106

Technical data aerosol	
Model	AFX 150
Activation method	Electric (6-36V D/C 1.0A in 1-2 sec.)
Total weigh	2.500 gram
Net usable weight of extinguishing agent	150 gram effective
Discharge time	<30 sec.
Outlet opening	Standard
Number of outlet openings	1
Outlet length per opening	1.5 m
Dimensions	310 mm x 94 mm (diameter)



TECHNICAL FEATURES

Smoke detection and aerosol suppression system

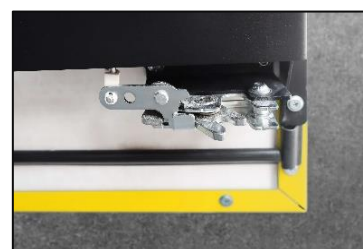
The cabinet is equipped with 2 smoke detectors for rapid notification to the fire station and activation of the aerosol. The aerosol cools and controls the battery during a thermal runaway to prevent fire spread.

Temperature detection

At a temperature detection of >50°C, charging automatically stops, and an alarm signal sounds.

Doors and locks

2 self-closing doors with door contacts. These register if a door remains open for longer than 5 minutes and the charging will automatically be stopped. Through the MyLoxxer platform, a notification can be sent, and an on-site alarm will sound. The doors are equipped with a multi-point locking system and can be locked with a key.



MyLOXXER platform

Optional notification software (receive notifications via SMS & email)

Certified fire station (EN12094)

The certified fire station (EN1209) ensures correct connection to your existing fire station.

KIWA certified K21054

Certificate specifically for fire protection concerning the storage of lithium-ion batteries.

System monitoring

Optional via the MyLoxxer portal



Shelf grid

4 adjustable shelf grids to adjust the distance between shelves. The shelf grids have a mesh structure and a carrying capacity of max. 70kg.



Power strips

On the rear wall of each shelf grid, a power strip with 8 sockets is provided for charging the lithium-ion batteries with a maximum current of 16A per socket.



UPS-battery

In case of power interruption, the cabinet is equipped with a UPS battery that provides power to the cabinet for at least 24 hours to maintain safety.

Support footrests

The cabinet is equipped with adjustable footrests and can be moved with a pallet jack from all 4 sides, ensuring quick movement of the cabinet outside in case of incidents.



Alarm and notifications

Alerting through audio-visual notifications, the MyLoxxer platform, and connection to the fire station (SMS & email): cabinet open for more than 5 minutes, power interruption, system monitoring error, temperature >55°C, and smoke detection. In case of an error, charging and ventilation will be interrupted.

Pressure relief valve

At the top of the cabinet, a pressure relief valve is provided with flame-retardant mesh. In case of sudden temperature rise and pressure formation, the pressure relief valve opens, reducing the built-up pressure to normal atmospheric values.

Ventilation

The LOXX2000 ADVANCED PRO is equipped with forced ventilation to maintain the temperature within acceptable limits inside the cabinet.