



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

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

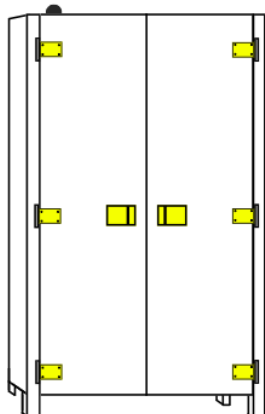
- 90 minuten brandwerend
- Main functionalities:
 - o Ensuring safe operation
 - o Detecting smoke and fire
 - o Alerting in case of danger
 - o Activating aerosol fire suppression
 - o Controlling Lithium battery fires in the cabinet to prevent fire spread.
- Operation upon smoke detection:

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 Interrupting the battery charging process
 - o Disabling active ventilation
 - o Activating the Aerosol generator



TECHNICAL SPECIFICATIONS



Type		LOXK2000 ADVANCED	
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 1 smoke detector 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.



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. The doors are equipped with a multi-point locking system and can be locked with a key.



Audiovisual alarm

The cabinet has an audiovisual alarm that will notify you in case of smoke detection.

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.

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.



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.



Ventilation

The LOXK2000 ADVANCED is equipped with forced ventilation to maintain the temperature within acceptable limits inside the cabinet.