



BATTERY TEST CHAMBER

Series LIT MK | with safety equipment for rapid temperature changes

Batteries are truly the future of energy storage – and to ensure they are able to perform safely and reliably, they need to be put through their paces in tests. To conduct tests on lithium-ion batteries, BINDER offers temperature and climate chambers equipped with a range of safety packages that are aligned with EUCAR Hazard Standards, environmental requirements, or test types.

A good decision: You are in safe hands with BINDER

- Our chambers offer safety thanks to extensive protective measures - suitable for EUCAR HAZARD LEVEL 6:
- Class 2 independent temperature safety device when temperature is set to +120 °C
- Reversible stainless steel pressure relief flap installed in the middle on top of the unit
- Enhanced door-locking mechanism with reinforced brackets
- Monitoring of CO, H₂, O₂, and temperature in testing area atmosphere
- N₂ permanent inertization
- CO₂ fire suppression



Model LIT MK 720
Sizes 8, 26 cu.ft.

Cat.No.	Description
08112007	LIT MK 240, 8 cu.ft., 480 V 3~ 60 Hz
08112008	LIT MK 720, 26 cu.ft., 480 V 3~ 60 Hz



EVEN TEMPERATURE DISTRIBUTION
Thanks to BINDER APT.line™ preheating chamber technology. Long-term operational stability even under full load.



OCCUPATIONAL SAFETY
Extensive safety equipment allows tests to be performed safely on lithium-ion batteries.



PROGRAMMING AND DATA COLLECTION
With the program controller featuring a color display and Multi Management Software APT-COM™ for remote programming through a PC.

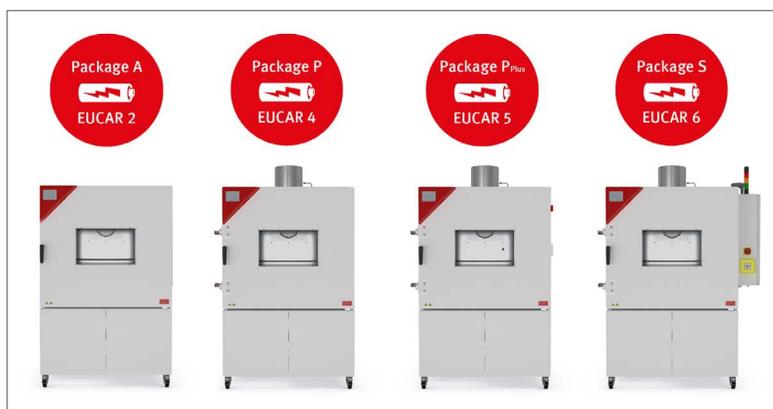


EASY ASSEMBLY
Thanks to large access area. The large heated viewing window with LED illumination provides a view of the test object.

TECHNICAL DATA

Description	LIT MK 240	LIT MK 720
Performance Data Temperature		
Temperature range [°C]	-40...110	-40...110
Temperature variation depending on setpoint [± K]	0.1...1.2	0.3...2
Temperature fluctuation depending on setpoint [± K]	0.1...0.5	0.1...0.5
Average heating-up rate according to IEC 60068-3-5 [K/min]	5	4
Average cooling down time according to IEC 60068-3-5 [K/min]	3.5	3.4
Max. heat compensation at 25 °C [W]	3000	3600
Measures		
Interior volume [cu.ft.]	8	26
Net weight of the unit (empty) [lbs]	827	1151
Permitted load [lbs]	154	353
Load per rack [lbs]	66	88
Internal Dimensions		
Width [in]	28.96	47.3
Height [in]	27.58	40.2
Depth [in]	17.45	23.64
Number of shelves (std./max.)	1/6	1/11
Housing dimensions not incl. fittings and connections		
Width net [in]	52.6	70.7
Height net [in]	76	79
Depth net [in]	36.45	46.7

INDIVIDUAL BATTERY TEST CHAMBERS



PACKAGE A - CAT.NO. 08112003

Class 2 independent temperature safety device when temperature is set to 120 °C. Temperature range limited to 110 °C on the controller

PACKAGE P - CAT.NO. 08112004

All the same functions as package A and:
Stainless-steel pressure relief flap installed in the middle on top of the unit
Enhanced door-locking mechanism with reinforced brackets
Inert gas connections

PACKAGE P PLUS - CAT.NO. 08112005

All the same functions as package P and: Temperature-monitored test chamber CO₂ fire suppression equipment

PACKAGE S - CAT.NO. 08112006

All the same functions as package P Plus and:
N₂ permanent inertization
Monitoring of CO, H₂, and O₂ in testing area atmosphere

The packages can be adapted to a variety of BINDER models in order to meet test requirements relating to temperature range, climate range, and test area size.

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