

BINDER battery test chambers

Safe solutions for testing
with energy storage devices



BINDER – your reliable partner

for safe and precise test conditions

For more than 40 years, BINDER has been developing and manufacturing high-quality simulation chambers in Tuttlingen. Our solutions are used worldwide in research, development, quality assurance, and production. Customers put their trust in maximum safety, process stability, and uncompromising quality – including when testing lithium-ion batteries

- ▶ More than 40 years of experience with temperature and climate chambers
- ▶ Development and manufacture at the headquarters in Tuttlingen
- ▶ Quality management in line with international standards
- ▶ Personal support – from the first conversation to operational support

Proven in practice.

Used worldwide.

BINDER battery test chambers are successfully used in various sectors, such as the **automotive industry, aerospace, and battery research**. Our test environments for charging and discharging lithium-ion battery cells, packs, and modules.



Advantages at a glance



SAFE



EUCAR-compliant safety packages

Depending on the hazard level, the BINDER safety packages provide protection with gas detection, inertization, and a cooling and flushing system. They therefore offer a safe, standard-compliant test environment for all battery applications.



SMART

Central connection thanks to interfaces

BINDER battery test chambers can be integrated seamlessly into a test architecture. They facilitate secure communication with peripheral units via Ethernet (Modbus TCP) or optionally RS485 (Modbus RTU).





RELIABLE

Proven safety functions for critical applications

BINDER cooling and flushing systems work independently and reliably. Combined with temperature monitoring, door locks, and pressure relief, a comprehensive protection concept is on offer.



ECONOMICAL

The ideal balance between safety, performance, and price

The combination of a standard unit and modular accessories allows a customized system to be configured that offers outstanding value for money. BINDER offers the right equipment for both individual units and series solutions.

More information

go2binder.com/en-battery-testing



Modular safety solutions for battery tests

BINDER temperature and climate chambers provide the basis for aging, performance, and stress testing in research and development, quality assurance, and battery production. Building on this, BINDER provides compatible safety packages that can be combined with a standard unit based on requirements. The test chambers cover the EUCAR Hazard Levels from 0 to 6, with preconfigured packages or tailored solutions to meet individual test requirements.

Equipment	Package A EUCAR 0-2	Package P EUCAR 0-4	Package P+ EUCAR 0-5	Package G EUCAR 0-5	Package S EUCAR 0-6
Unit temperature limitation	●	●	●	●	●
Class 2	●	●	●	●	●
Enhanced mechanical door locking system with two reinforced latches	-	●	●	●	●
Pressure relief flap (150 mm)	-	●	●	●	●
Inert gas connection (non-controlled)	-	●	●	●	●
Temperature detection	-	-	●	●	●
Manual activation	-	-	●	●	●
Connection for flushing and cooling system	-	-	●	●	●
Single-color alarm signal light	-	-	●	-	-
Three-color warning/alarm signal light	-	-	-	●	●
Gas detection CO	-	-	-	●	●
Gas detection H ₂	-	-	-	-	●
Gas detection O ₂	-	-	-	-	●
Inerting system (controlled)	-	-	-	-	●
Electromechanical door lock	-	-	-	●	●

- not included ● included

BINDER Customized Solutions.

As unique as your application

Every test environment presents specific requirements. With BINDER Customized Solutions, the test chambers are matched precisely to the application, e.g., with additional access ports or the integration of complex and heavy test systems. Based on proven series units, our specialists develop tailored solutions that are delivered following functional testing and with documentation.



Various access ports
















Reinforced shelves and racks



Compatible with peripheral units

A direct way to your test solution

-   **▶ Request**
Clarification of your requirements with our sales team
-    **▶ Advice**
Selection of the suitable series or customized solution
-    **▶ Adaptation**
Planning and design of individual features
-    **▶ Manufacture**
Production, testing, and conformity assessment
-    **▶ Installation & service**
Support with setup, installation, maintenance, and calibration



Best conditions for your success

BINDER GmbH
Im Mittleren Ösch 5
D-78532 Tuttlingen
Germany

Phone +49 746 22005 0
info@binder-world.com



www.binder-world.com