

Battery test chamber

BTC



**DESIGNED FOR THERMAL BATTERY TESTING.
ENGINEERED FOR SAFETY IN APPLICATIONS UP TO HAZARD LEVEL 4.**

The Memmert U-BTC battery test chamber was specifically developed for thermal battery testing up to Hazard Level 4, combining precise temperature control with integrated safety features for reliable test conditions.

DESIGNED FOR SAFE BATTERY TESTING

Battery testing requires more than precise temperature control. Heat generated by the battery, the test procedure and potential failure scenarios all need to be considered when creating a reliable test environment. Designed specifically for thermal battery testing up to Hazard Level 4, the U-BTC

covers temperatures from +20 to +120 °C and provides reliable conditions for testing at elevated temperatures. Its integrated safety concept combines pressure relief, mechanical door securing and a process-dependent electronic door lock.

SAFETY FEATURES COME STANDARD

Safety features are built into the U-BTC from the start. Its integrated safety concept brings together monitoring, mechanical door locking, process-dependent electronic locking and pressure relief to support reliable thermal battery testing. A key advantage: key battery-specific options are already included as standard, so they do not need to be selected or ordered separately.

01 A8 – Temperature restriction +120 °C

03 V5 – Door-open recognition

05 E0m – Signal lights

02 K2 – Interior nearly gastight

04 D4 – Process-dependent programmable door lock

06 Pressure relief duct

Pressure relief duct with a spring-loaded flap for reliable pressure relief. The Ø 120 mm entry port with protective grille also allows connection to an exhaust system.

Two toggle latches securely hold the door in the closed position, while additional internal reinforcement plates strengthen the cabinet structure for added rigidity.

Three signal lights show the current device status at a glance:

Red: Fault
Yellow: Manual mode
Green: Programme running



MODEL OVERVIEW

UF110-BTC-HL4
UN110-BTC-HL4

UF160-BTC-HL4
UN160-BTC-HL4

UF250-BTC-HL4
UN250-BTC-HL4

UF260-BTC-HL4
UN260-BTC-HL4



Model size	Volume	Internal dimensions (W × H × D)	External dimensions (W × H × D)	Setting temperature range	Max. loading of chamber
110	108 L	560×480×400 mm	745×864×584 mm	+20°C to +120°C	175kg
160	161 L	560×720×400 mm	745×1104×584 mm	+20°C to +120°C	210kg
250	256 L	800×640×500 mm	984×1023×684 mm	+20°C to +120°C	300kg
260	256 L	640×800×500 mm	824×1183×684 mm	+20°C to +120°C	300kg
400	384 L	640×1200×500 mm	824×1720×684 mm	+20°C to +120°C	300kg
450	449 L	1040×720×600 mm	1224×1247×784 mm	+20°C to +120°C	300kg
750	749 L	1040×1200×600 mm	1224×1720×784 mm	+20°C to +120°C	300kg

Model variants

Each U-BTC model size is available as UN-BTC with natural convection or as UF-BTC with forced air circulation.

TwinDISPLAY as standard

All models are supplied as Plus units with TwinDISPLAY. Extended operating and software functions, such as running programmes, are therefore included as standard.

CONTACT

For battery testing, the test task, temperature requirements and safety scope must be aligned. We will be happy to help you select the right U-BTC configuration for your application.

Discuss your test requirements:
www.memmert.com/en/btc

For personal advice, quotations or technical questions, please contact your local Memmert representative or our international sales team.

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We reserve the right to make technical changes - dimensions are not binding

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