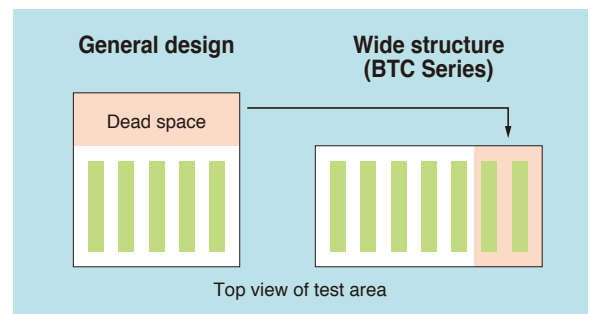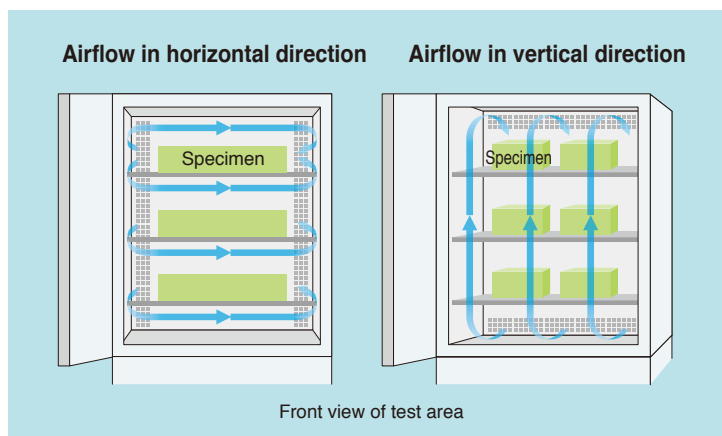# ESPEC

Temperature Chamber for Charge/Discharge Testing
BTC Series for EU

NEW

● **Safety design for battery testing:**
Large pressure-relief vent to release high pressure from inside chamber

● **Minimized temperature variation for each batteries:**
You can choose horizontal or vertical air flow

● **User-friendly design:**
Safety door lock fastener type is equipped as a standard fitting

● **Space efficiency for battery setting:**
Wide stretched design for test area for easy handling of batteries

BTC-560Hb1

Airflow in horizontal direction   **Airflow in vertical direction**

Specimen

Specimen

Front view of test area

General design   **Wide structure (BTC Series)**

Dead space

Top view of test area

Model	BTC-560Hb1	BTC-560Vb1	BTC-1120Hb1	BTC-1120Vb1
Airflow direction	Horizontal	Vertical	Horizontal	Vertical
Temperature range	− 40 to +100 °C			
Temperature change rate — Temperature range	− 26 °C ⇔ +86 °C			
Temperature change rate — Heat-up rate	2.1 K/min			
Temperature change rate — Cool-down rate	2.2 K/min			
Air temperature deviation	1.5 °C		2.5 °C	
Allowable heat load	2000 W (stabilized at +20°C)		3000 W (stabilized at +20°C)	
Capacity	560 L		1120 L	
Internal dimensions	W800×H1000×D700 mm		W1600×H1000×D700 mm	
External dimensions *1	W1250×H2195×D1406 mm		W2050×H2195×D1406 mm	
Refrigerant	R449A			
Breaker capacity	AC400V 3φ 50Hz 30A		AC400V 3φ 50Hz 50A	
Weight	650 kg		1200 kg	

*1 Partial protrusions not included.

Cable port

Right side: 1pc. 400(W)×100(H)mm
Left side: 1pc. 400(W)×100(H)mm
Back side: 4pcs. 100mm ϕ
Rubber plugs for cable ports: 4pcs. Spiral-wrapped plugs and 2pcs. Rectangular plugs.

Safety door lock fastener type

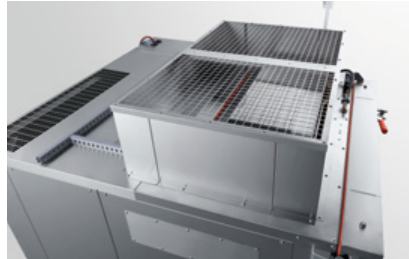The fastener lock ensures a strong and simple method for locking the door.

Electromagnetic door lock

The door is closed during operation.

Large pressure-relief vent
(W700 × D300 mm)

When the chamber inside pressure gose up rapidly, the vent opens to release the pressure

Frost-free

Continuous operation over +10°C without defrost.

- **Reinforced test area floor (300 kg)**
- **Emergency stop switch with guard in front position**
- **3-color status indicator tower light**
- **External input/output terminal**
- **Sheathed heater**
- **Ethernet port (LAN)**

Back side

- **Fire extinguisher port: 1pc. 50 mm ϕ**

Air supply/exhaust damper
(with exhaust fan)

Outside air is taken in to replace the air in the test area.

- **Gas detectors (H_2, CO, H_2S)**
- **Smoke detector**
- **Heat detector**
- **Specimen heat detector**
- **Door chain**
- **Flameproof rubber**

Viewing window with Stainless steel protection cover

Effective viewing dimensions:
295 (W) × 380 (H) mm

- **Water-cooled condenser**
- **Heavy duty shelf and shelf bracket (Load capacity: 50 kg)**
- **Heavy duty shelf and shelf bracket (Load capacity: 100 kg)**
- **RS-485/RS-232C communication function interface**
- **Anchoring fixtures**

Specifications, external appearance, and other descriptions are subject to change without notice due to product improvements. We appreciate your understanding.