

OPEN FOR TESTING

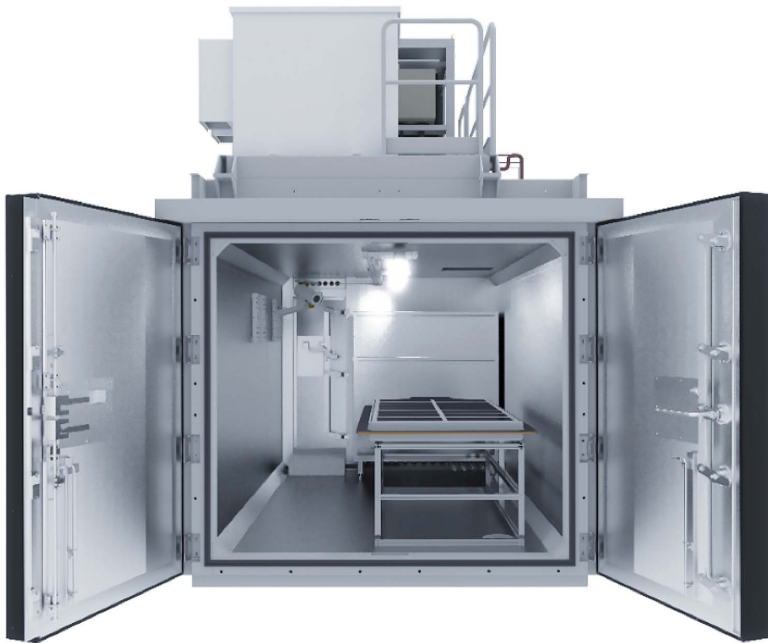
ELECTRIC VEHICLE BATTERY PACK TESTING SERVICES

Proventia offers testing capacity for the durability and performance testing of electric-vehicle battery packs and modules. Proventia's climatic battery pack test chamber accommodates full-size battery packs or several battery modules, and fulfils the highest battery development and testing demands of the automotive industry. In addition to battery testing, the Proventia Test Centre with engine test chamber also enables simultaneous hybrid system testing. As a flexible testing service provider, Proventia is capable of meeting customer requests in the most agile manner.



SPECIFICATIONS

OF PROVENTIA BATTERY PACK TEST CHAMBER



BATTERY CYCLER

- Power 250 kW (cont.) / 300 kW (peak)*
- Current 700 A (cont.) / 840 A (peak)*
- Voltage 24–1100 Vdc

* For 60 seconds once every 5 minutes

ENVIRONMENTAL TEST CHAMBER PERFORMANCE

- Temperature range $-40\text{ }^{\circ}\text{C}$ – $+80\text{ }^{\circ}\text{C}$
- Temperature gradient $\pm 1\text{ }^{\circ}\text{C}$
- Variation rate minimum $1,0\text{--}3,0\text{ }^{\circ}\text{C}/\text{min}$ depending on DUT mass

DIMENSIONS

- Height 2500 mm
- Width 2800 mm
- Length 3600 mm
- Maximum Load 1200 kg

Automation system

STANDALONE 24/7 OPERATION, REMOTE MONITORING POSSIBILITY

- 32 pcs K-type thermal couples
- 8 pcs RTD/PT100 sensors
- 8 pcs. Analog I/O 0–10 V
- 8 pcs. Digital I/O 24 V
- 4 pcs. CANBUS
- 24 V, 12 V and 5 V reference voltages

Process thermostat / coolant supply for battery

- Coolant temperature range: $-55\text{ }^{\circ}\text{C}$... $250\text{ }^{\circ}\text{C}$
- Cooling capacity: 6 kW ... 1,5 kW (0°C ... $-40\text{ }^{\circ}\text{C}$)
- Heating capacity: 6 kW
- Pressure pump max.: 79 l/min / 1.5 bar



Proventia Oy

Tietotie 1, 90460 Oulunsalo, Finland | Tel: +358 20 781 0200

www.proventia.com