

ADBC-T : Advanced Battery Chamber

Three-zone Temperature Chamber for Charge-Discharge Testing



ADBC Control panel

*Inside the chamber
with battery cells*

The ESPEC Advanced Battery Test Chamber (ADBC) is a testament to our commitment to driving innovation in environmental testing. Designed specifically for the testing of lithium-ion and other advanced battery types, the ADBC is engineered to simulate a wide range of environmental conditions that batteries may encounter throughout their lifecycle.

ADBC Offers

Space Savings

Unmatched Temperature Uniformity

Integrates With Your Charge/Discharge System

Scalability And Flexibility

Data Integrity

Specifications

External Dimensions (W x D x H)	47" x 51" x 80" (1200 x 1300 x 2022 mm)
Internal Dimensions (W x D x H)	20" x 16" x 16" (510 x 400 x 400 mm)
Weight	Approx. 1,455 lbs (660 kg)
Floor load capacity of the chamber (Equally distributed load)	88 lbs (40 kg)
Safety Device	Screw-in type door locks Emergency stop switch
Cooling System	Independent control of three chambers
Temperature Range	-40°C to +100°C
Temperature Rise Time	+20°C to +100°C within 60 min.
Temperature Fall Time	+20°C to -30°C within 60 min.
Temperature Uniformity	± 1.5°C

Quality is more than a word!



Safety Test Equipment for Battery Cell

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- Features a special design for charge-discharge testing and horizontal laminar flow for high temperature uniformity performance.
- Flexibly integrates a charge-discharge power supply from manufacturer of your choice and has an integrated design to enable space savings

Options:

Pressure relief vent

Gas detector

CO2 Fire Extinguisher

Impedance measurement function

Custom battery mounting boards

Water-cooled refrigeration system

