

# BTC-32

Battery test chamber for 32 coin/ Tee cells

## Features

- ✓ Rational, clean, easy to use test holders
- ✓ Fast exchange of samples
- ✓ 10 A cabling with integral 4-wire connections
- ✓ Additional sensing connections available
- ✓ Managed cabling: no free wires in the lab
- ✓ Controlled homogeneity
- ✓ Wide temperature range
- ✓ Easy to clean in case of runaway event
- ✓ Controlled spacing against flame propagation
- ✓ Wide range of ancillaries/customized parts

## Complete solution

Lithium battery tests need large numbers to obtain meaningful results.

This implies both a high number of samples and the homogeneity of the test conditions: the BTC-32 was conceived to solve both issues in a compact, yet performing, size able to stay on a lab tabletop.

Aiming both at R&D labs and QA/QC in industry, the BTC-32 offers powerful electrical connections with plenty of ancillary contacts in a clean, easy to manage environment, lifting the user from cables' interconnections problems.

Our experience in the field, with thousands of channels installed, brought us a large selection of customized solutions, meaningful add-ons, flexible answers to the most different needs of our customers.

A range of interconnection cables available allow you to interface to almost any major brands multichannel test stations, and a software tool make the chamber control easy to fix with different setup



Born from the field experience of like most of our instruments, the BTC-32 is part of our solution-oriented line of instruments and ancillaries for energy-related studies produced in cooperation with Fratelli Galli, a market-leader producer of climatic chambers and ovens. Materials Mates is specialized in building scientific and industrial instruments, both standard and customized, for all the major energy-related fields.

All our instruments benefit from experience built in 30+ years of presence in the most advanced laboratories

## MATERIALS MATES ITALIA SRL

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## BTC-32 environmental test chamber

### Specifications

Environmental and dimensions		
Inner volume	35 Lt	
Inner dimensions	W 360 D 290 H 330 mm	
Outer dimensions	W 500 D 470 H 930 mm	
Temperature range	-10 + 100 °C	
Accuracy	+/- 0.1 °C	
Homogeneity	+/- 0.4 °C	
resolution	0.1 °C	Setpoint and readout
Setting time to +20 °C	25 minutes	

Connections and interfaces		
Cell connections	Integral 4-wire to all channels	
Maximum current	10A (32 channels)	Can be grouped for higher currents
Cell types	Coin cells/ Swagelock mounted cells / cylindrical / prismatic	
Cell's size	CR2020 to CR 2445 Up to 18650 for cylindrical and prismatic	
<b>Cell holder options</b>		
Local temp. sensor	Pt 100 2/3/4 wires	
Additional sensing	Up to 4 additional sensing connections	

Your local distributor

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