

TECHNICAL DATA SHEET

High-Low Temperature Test Chamber ABCH180

-120 to 180 °C · LN₂ cooling + electric heating · ±0.5 °C · max 5 °C/min



ABCH180 — high-low temperature test chamber, -120 to 180 °C.

CONTENTS

- I. Product Description
- II. Specifications
- III. Application Fields
- IV. Configuration

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SECTION I

Product Description

ABCH180 is an environmental chamber built for variable-temperature sample testing that also serves optical and electrical measurements. Low-temperature nitrogen gas fed into the chamber provides cooling while electric heating covers the upper range, controlling the chamber interior over a -120°C to 180°C range.

Temperature stability is $\pm 0.5^{\circ}\text{C}$ with a maximum heating & cooling rate of $5^{\circ}\text{C}/\text{min}$. The chamber measures $500 \times 470 \times 396$ mm outside with a $240 \times 170 \times 230$ mm atmosphere sample chamber at 30 kg net; paired with optical or electrical instruments it supports variable-temperature in-situ testing.

SECTION II

Specifications

ABCH180 — Specifications	
Model #	ABCH180
SKU #	EIBCH180
Heating / Cooling Method	Liquid-nitrogen cooling, electric heating
Temperature Range	$-120^{\circ}\text{C} \sim 180^{\circ}\text{C}$
Temperature Stability	$\pm 0.5^{\circ}\text{C}$
Temperature Control Rate	Max heating & cooling rate $5^{\circ}\text{C}/\text{min}$
Dimensions	$500 \times 470 \times 396$ mm
Chamber Size	$240 \times 170 \times 230$ mm
Chamber	Atmosphere
Net Weight	30 kg

SECTION III

Application Fields

- Variable-temperature sample testing
- Optical testing from -120 to 180°C
- Electrical testing from -120 to 180°C
- In-situ testing with paired instruments

SECTION IV

Configuration

Basic configuration (per chamber): 1 × main unit (high-low temperature test chamber), 1 × temperature-control software, and 1 × smart liquid-nitrogen pump, plus connection cables, tubing and accessories. Final applicability and configuration are confirmed at quotation.

The ABCH180 is supplied by quotation: request via the product page at www.acsmaterial.com; our engineers confirm the configuration for your instruments and reply with pricing and lead time.

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