TECHNICAL DATA SHEET

ALab™ TB-H240-V1 Constant Temperature Bath

Constant temperature bath · Ø150 × 100 mm glass bath · RT to 240°C · ±0.5°C · separate controller



ALab™ TB-H240-V1 Constant Temperature Bath

The ALab™ TB-H240-V1 Constant Temperature Bath with its separate controller; image shown for reference.

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SECTION I

Product Overview

The ALab™ TB-H240-V1 is a constant temperature bath with a transparent Ø150 × 100 mm glass bath tub. It heats from RT to 240°C with ±0.5°C control accuracy for heated liquids, using high-quality heating elements, temperature sensors and intelligent PID control.

The controller is separate from the main unit on a cable of up to 1 m, a protective guard on a stand keeps the vessel away from the heating tube, and an optional magnetic stirrer improves temperature uniformity within the bath.

SECTION II

Core Advantages

- **Heating** — RT to 240°C, PID
- **Bath** — Ø150 × 100 mm glass
- **Guard** — on a stand
- **Accuracy** — ±0.5°C
- **Controller** — separate, cable up to 1 m
- **Safety** — 3 protections

SECTION III

Specifications

Technical data — TB-H240-V1

Specifications	
Brand	ALab™ by ACS Material
Model	TB-H240-V1
ACS Cat. No.	Parent ALTBH10F; ALTBH100
Product type	Constant temperature bath
Glass bath tub size	Ø150 × 100 mm
Temperature display	LED
Heating temperature range	RT to 240°C
Temperature control accuracy of heated liquids	±0.5°C
Overheat protection	280°C
Temperature display resolution	0.1°C
External temperature sensor	PT1000
Protection class	IP21
Power	360 W
Heating power	350 W
Voltage, frequency	100 to 120 V / 200 to 240 V, 50/60 Hz
Dimensions [W × D × H]	310 × 220 × 135 mm
Weight	2.2 kg
Permissible ambient temperature and humidity	5 to 40°C, 80% RH

Control and design

Function	Detail
Controller	Separate operating unit on a cable of up to 1 m; LED temperature display; simple, intuitive interface for setting and adjusting the temperature
Temperature control	Intelligent PID control, RT to 240°C, ±0.5°C for heated liquids; external PT1000 temperature sensor
Calibration	Automatic temperature calibration; reset to default settings
Stirring	Optional magnetic stirrer for improved temperature uniformity within the bath
Safety	Over-temperature protection (error display and heating stops on overheating or a sensor malfunction); overcurrent protection (power cut on a short circuit); grounding-fault protection; overheat protection 280°C; protective guard on a stand
Protection class	IP21

SECTION IV

Applications

Application guidance: pharmaceuticals, pesticides, fragrances, dyes, pigments, additives, fibers, petrochemicals, pharmacy, physics, chemistry, industrial chemistry, polymers, functional molecules, applied chemistry and other fields.

Specifications are per the tables above.

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