

TEB

Temperature Stability Chamber

PRODUCT INTRODUCTION MANUAL

Striving for the Bright Future of Precision Optical Measurement.

01 Product Functions

TEB research precision constant temperature incubators are used to provide research and enterprise customers with a space featuring high-precision constant temperature ($\pm 0.005^{\circ}\text{C}$) during the product development phase. Customers can place temperature-sensitive optical components, circuit boards, sample chambers, sensors, and even entire instruments inside the precision constant temperature incubator. This enables improved research experiment metrics and analysis of the impact of temperature on components.



Figure1 Temperature-Controlled Foam Box

02 Product Features

- Easy to use, plug-and-play functionality, compatible with PC display software for monitoring.
- Foam incubator box, with the option for users to freely drill holes (hole-making auxiliary tools included).
- High temperature control accuracy, with typical temperature stability of $\pm 0.005^{\circ}\text{C}$.
- Wide temperature setting range.

03 Product Parameters

PARAMETERS	NUMBER		
	Minimum	Typical	Maximum
24-hour Temperature Control Stability	/	$\pm 0.005^{\circ}\text{C}@30^{\circ}\text{C}$	± 0.01
Temperature Setting Range	13°C to 60°C at an ambient temperature of 25°C		

Internal Temperature Gradient	0.15℃		
Internal Air Temperature Stability (ambient temperature 25±2℃)	±0.02℃@30℃		
Instrument Power Requirements	AC 220V		
Instrument Power Consumption	<102W		
Ambient Temperature Range	-15℃	Room temperature	60℃
Ambient Humidity Range	0%RH	(In high humidity environments during cooling, condensation may form on the internal cooling fins)	98%RH
Overtemperature Protection	User Adjustable		
Power Loss Memory	Yes		
PID Parameters	User Adjustable		
External Dimensions	560*460*390mm		
Internal Dimensions	500*380*340mm Dimensions with fan protruding from the front panel: 90*90*53mm		
Weight	≈7kg		

04 Interface Introduction

Interface Name	Interface Description
Power Connector	Used for connecting the power adapter (includes a power adapter as a gift).
Data Connector	Used for connecting to a computer (includes one communication data cable as a gift).

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**Original Aspiration Determines the Future,
Innovation Creates Value,
Sharing Unites Hearts.**

**Looking forward to achieving win-win
cooperation with you!**