

TEB Temperature- Controlled Foam Box

PRODUCT INTRODUCTION MANUAL

Striving for the Bright Future of Precision Optical Measurement.

Temperature-Controlled Foam Box

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

Table1 Basic Parameters of TEB

PARAMETERS	NUMBER			UNIT
	Minimum	Typical	Maximum	
24-hour Temperature Control Stability	/	±0.005@30°C	±0.01	°C
Temperature Setting Range	13°C to 60°C at an ambient temperature of 25°C/			°C
Material	High-Quality Foamed Polypropylene (includes a foam hole opening tool as a gift).			
Internal Temperature Gradient	0.15			°C
Internal Air Temperature Stability (ambient temperature 25±2°C)	±0.02@30°C			°C
Instrument Power Requirements	AC 220			V
Instrument Power Consumption	<102			W
Ambient Temperature Range	-15	Room temperature	60	°C
Ambient Humidity Range	0	(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*390			mm
Internal Dimensions	500*380*340 Dimensions with fan protruding from the front panel: 90*90*53			mm
Weight	≈3			kg

04 Interface Introduction

Table2 Interface List of TEB

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).

05 Computer Software (Communication Protocol Refer to Attachment)



Figure2 Computer Software

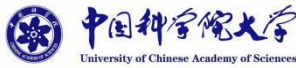
06 Customized Temperature Control System Services

We offer complete temperature control solutions, providing custom temperature control systems for institutions such as the National Institute of Metrology of China, the Anhui Institute of Optics and Fine Mechanics, Nanjing University, and Shenzhen University.

For customized temperature control systems, please contact our technical support at +86 191 2054 5883 (WhatsApp ID same as phone number)

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