

Introducing the

DBC series

Dry Block Temperature Calibrators



This product is easy to carry, easy to use, with fast and reliable temperature accuracy, widely used in machinery, chemical industry, food, pharmaceuticals and other industries. The problems of slow heating and slow constant temperature commonly exist in the existing dry calibration furnaces in companies, which leads to a delay for users to calibrate each time. The latest generation of dry shaft furnace in the DBC series adopts the most advanced heating principle design in the industry. It has the characteristics of fast heating, fast constant temperature and fast cooling, which greatly improves the existing calibration efficiency. Through reliable high precision temperature control circuit and high precision sensor, the accuracy is higher than that of other domestic manufacturers, and the technology meets international standards. The touchscreen operation, which is another breakthrough technology, is simple and fast to use.

Key Features

- Various types of insertion tubes can meet the test and calibration of sensors of different sizes and quantities. It can also be customised according to the special needs of users
- Excellent horizontal and vertical temperature fields
- Industry leading deep insertions degrees
- 5.7-inch TFT colour LCD display, full touch operation, using intuitive and eye-catching display
- Multi-language interface
- Quick cooling, convenient setting, good stability of temperature control
- The soaking block can be replaced
- Protective functions such as short circuit with load, load circuit breaking, sensor protection, etc.
- Small sized, light-weight, easy to carry

TEMPERATURE CALIBRATOR

Technical Specifications

Model Name	Low Temperature		Medium Temperature	High Temperature	
	DBC-150A	DBC-150B	DBC-650	DBC-1200	DBC-1200B
Temperature Range	-20°C~150°C	-30°C~150°C	50°C~650°C	300°C~1200°C	100~1200°C
Heating Speed/Cooling Speed	25°C~50°C: 6min 50°C~100°C: 15mins 100°C~150°C: 20mins 25°C~0°C: 15mins 0°C~-20°C: 15mins -20°C~-30°C: 22mins		50°C~300°C : 7mins 50°C~650°C : 30mins	25°C~100°C : 10mins 100°C~600°C : 15mins 600°C~800°C : 20mins 800°C~1200°C : 30mins	
Display Accuracy	≤±0.1°C		≤400°C : ≤±0.35°C 400-650°C : ≤±0.5°C	≤±1.2°C	
Inserted depth	165mm	160mm	150mm	135mm	
Diameter of Heating Block	36mm	32mm	32mm	39mm	
Temperature Stability	≤±0.02°C	≤±0.02°C	≤±0.05°C	≤±0.2°C	
Horizontal Temp Field	≤±0.05°C	≤±0.05°C	≤±0.05°C	≤±0.25°C	
Hole Size	Φ6/8/10/12 mm	Φ6/8/8/10mm	Φ8/10/12mm or Φ6/6/8/8mm	Φ6/8/10/12mm	
Vertical Horizontal Field	Less than 1 °C within 30mm from bottom of heating block			Less than 1 °C within 10mm from bottom of heating block	
Temp Unit	°C or °F				
Temp Control Precision	0.10%				
Resolution Rate	0.01°C or 0.001°C for option				
Optional Function	USB Device Communication Interface (USB port is equipped for DBC-1200B, and optional for other models)				

Power Supply
220VAC±10%, 45~60Hz

Max Power
Low Temp : 300W, Medium Temp : 1200W, High Temp : 3000W

General Specifications

Mass
Net: Low Temp : 11kg, Medium Temp : 11kg, High Temp : 8kg
Gross: Low Temp : 18.5kg, Medium Temp : 18.5kg, High Temp : 16kg

Dimension
Low Temp : 310*190*340mm,
Medium Temp/High Temp : 250*150*310mm

Operating
0 ~ 50 °C, relative humidity <95% (no condensation)

Packing
Packed in an aluminium and carton box

Services
1-year warranty (subject to product registration with GPS Ltd)

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