

Инфракрасные калибраторы, сухоблочные калибраторы температуры НВС-300, НВС-200, НВС-100, жидкостные калибровочные ванны WBU-200

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Cole-Parmer® Portable Heating Block Calibrator - HBC-300

- Wide temperature range
- Built in program for thermal switch testing
- Maximum temperature of 430°C/806°F
- Fast heat up and cool down
- 10 insert formats available
- Independent over-temperature protection
- Only 4kg with included multi-well insert



Technical Specification

Specification	HBC-300
Temperature range	5°C (9°F) above ambient to 430°C (806°F)
Cooling rate 400°C to 100°C	21 minutes
Heating rate 20°C to 400°C	12 minutes
Over-temperature cut-out	Approximately 450°C
Stability at 200°C	± 0.03°C
Stability at 400°C	± 0.05°C
Accuracy at 200°C	± 0.3°C
Accuracy at 400°C	± 0.5°C
Uniformity at 200°C	0.015°C
Uniformity at 400°C	0.025°C
Display resolution	0.1°C
Fan cooling	Automatic
Weight	4 kg (9 lbs)
Insert immersion depth	114 mm (4.5 inches)

Cole-Parmer® Portable Heating Block Calibrator - HBC-300

The Cole-Parmer® Portable Heating Block Calibrator provides a safe, dry and constant temperature source and can be used either on a bench top or as a portable field unit. The unit covers the temperature range from 5°C above ambient up to 430°C using a machined aluminum insert block as the heat transfer medium. The temperature control circuit is built into the unit. Even though the unit heats up rapidly, highly efficient insulation ensures that the case remains cool enough to handle even at maximum operating temperatures. This calibrator has been designed to comply with all relevant Radio Frequency interference and electrical safety regulations.

Cooling Probe

This rapid cooling probe is designed to cool the block on the portable heating block calibrator. The water cooled probe will cool a unit down to 10°C if an insert block with a diameter 10mm or 3/8inch bore or larger is used.

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Cole-Parmer® Dri-block calibrator, including block Insert (16104-30), block extraction tool, power cable & userguide, 120V 50/60Hz	16101-97	HBC-300	HBC-300-1-120	FDBU400P
Cole-Parmer® Dri-block calibrator, including block Insert (16104-30), block extraction tool, power cable & userguide, 230V 50/60Hz	16101-98	HBC-300	HBC-300-1	FDBU400D
Cole-Parmer® Carrying case (ordered seperately)	16104-43	HBC-300	-	7032718
Cole-Parmer® Aluminium Insert 5 x 1 / 4 inch probes	08510-70	HBC-300	-	FINSALF
Cole-Parmer® Aluminium Insert 3 / 8 inch, 5 / 16 inch, 1 / 4 inch, 3 / 16 inch, 1 / 8 inch probes (supplied as standard)	16104-30	HBC-300	-	FINSALG
Cole-Parmer® Aluminium Insert 2 x 3 / 8 inch and 2 x 1 / 4 inch probes	16104-26	HBC-300	-	FINSALH
Cole-Parmer® Aluminium Insert 2 x 1 / 2 inch and 2 x 1 / 4 inch probes	16104-27	HBC-300	-	FINSALI
Cole-Parmer® Aluminium Insert 1 x 1 / 4 inch probes	16104-28	HBC-300	-	FINSALJ
Cole-Parmer® Blank aluminium Insert	16104-29	HBC-300	-	FINSALK

Cole-Parmer® Liquid Calibration Baths, WBU-250-5 - WBU-250-7 - WBU-250-12

- -35°C to 250°C
- Three different capacities available; 5, 7 or 12 litres
- Temperature stability; $\pm 0.005^{\circ}\text{C}$ depending on choice of control unit
- Fully insulated bath for excellent heat retention
- Analogue or digital temperature selection, depending on choice of control unit
- Includes cover, lid and bridging plate





Cole-Parmer® Liquid Calibration Baths, WBU-250-5 - WBU-250-7 - WBU-250-12

The Cole-Parmer® liquid calibration bath (LCB) series offer compact, accurate and reliable liquid water baths which can be used for external circulation or temperature calibration of thermal sensors.

When temperature calibration is required the compact liquid baths offer excellent stability over the entire temperature range. The LCBs can be also be used for external circulation to maintain temperatures of samples in viscometers, photometers, refractometers, fermenters and other reaction vessels.

All models of LCB offer high pump performance and exceptional thermal stability from -35°C to 250°C. The water baths are fully insulated on all sides and base and are fitted with a cooling coil for connection to a cold water supply for use at temperatures around ambient.

The minimum temperature achievable is -35°C when a Flow Cooler is added to the system.

Each bath is supplied complete with lid, drain tap, carry handles, a cooling coil (with bung) and hole to position a certified sensor.

Please note: for Liquid Calibration Baths to operate, a thermoregulator is required. The thermoregulator must be purchased separately because there are 4 models to choose from.

Technical Specification

Specification	5 litre	7 litre	12 litre
Dimensions L x W x H (mm)	351 x 260 x 183	351 x 260 x 233	351 x 260 x 358
Bath opening (mm)	143.0 x 151.2	143.0 x 151.2	168.0 x 151.2
Working depth (mm)	125	175	300
Shipping Weight	5kg	6kg	9kg

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Cole-Parmer® LCB insulated liquid calibration bath with cooling coil, 5 litre	16112-03	WBU-250	WBU-250-5	FBCAL05D
Cole-Parmer® LCB insulated liquid calibration bath with cooling coil, 7 litre	16105-04	WBU-250	WBU-250-7	FBCAL07D
Cole-Parmer® LCB insulated liquid calibration bath with cooling coil, 12 litre	16104-50	WBU-250	WBU-250-12	FBCAL12D

Cole-Parmer®

Cole-Parmer® Portable Heating Blocks Calibrator HBC-100, HBC-200

- Wide range of inserts and custom options available
- RS-232 interface plus software and cable
- Soft Carry case
- Hard Carry case
- Block inserts are available separately



Portable Heating Blocks Calibrator HBC-200

Cole-Parmer® Portable Heating Blocks Calibrator HBC-100, HBC-200

The Cole-Parmer® HBC-100F operates from 45°C below ambient to 140°C while the HBC-200F operates from 5°C above ambient to 425°C and both reaches maximum temperature in 10/12 minutes.

This lightweight and easily portable unit weighs 6.3kg and has a temperature accuracy of $\pm 0.3^{\circ}\text{C}$ and a temperature uniformity of $\pm 0.2^{\circ}\text{C}$.

HBC-200 models are offered with the option to include RS-232 communications and can be used with a wide range of inserts to suit different probe sizes. Automatic fan cooling is standard, with a fast cooling probe accessory also available.

Technical Specification

Specification	HBC-100-140FR / HBC-100-140FS	HBC-200-425FR / HBC-200-425FS	HBC-200-425FR / HBC-200-425FS
Temperature range	45°C below ambient to 140°C (typically -20°C in an ambient of 25°C)	5°C above ambient to 425°C	25°C above ambient to 650°C
Display Accuracy	$\pm 0.2^{\circ}\text{C}$	$\pm 0.3^{\circ}\text{C}$	$\pm 0.4^{\circ}\text{C}$
Temperature Uniformity	$\pm 0.2^{\circ}\text{C}$	$\pm 0.2^{\circ}\text{C}$	$\pm 1.0^{\circ}\text{C}$
Temperature Stability	$\pm 0.05^{\circ}\text{C}$ (after 10 mins)	$\pm 0.03^{\circ}\text{C}$ at 200°C (after 10 mins) $\pm 0.05^{\circ}\text{C}$ at 425°C (after 10 mins)	$\pm 0.09^{\circ}\text{C}$ (after 10 mins)
Display resolution	0.01°C or 0.1 °F	0.01°C or 0.1 °F	0.01°C or 0.1 °F
Set point resolution	0.1°C or 0.1 °F	0.1°C or 0.1 °F	0.1°C or 0.1 °F
Display units	°C or °F	°C or °F	°C or °F
PC Interface	RS-232 option	RS-232 option	RS-232 option
Heating rate 20°C to 400°C	20°C to 100°C 5 minutes	20°C to 400°C 12 minutes	20°C to 600°C 24 minutes
Cooling rate 400°C to 100°C	100°C to 0°C 9 minutes	400°C to 100°C 21 minutes	600°C to 200°C 21 minutes
Large well (mm)	38 (diameter) x 135 (deep) Inserts	38 (diameter) x 135 (deep) Inserts	38 (diameter) x 135 (deep) Inserts
Fan Cooling	Automatic	Automatic	Automatic
Safety over-temperature cut-out	Yes	Yes	Yes
Fast Cooling	-	Rapid Water Cooling Probe - Compatible	Rapid Water Cooling Probe - Compatible
Dimensions L x W x H (mm)	273 x 207 x 289	270 x 170 x 255	278 x 170 x 300
Weight	11kg	6.3kg	9.6kg
Power (W)	400	900	1300



Portable Heating Blocks Calibrator HBC-200

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Cole-Parmer® Block Heater Calibrator 140°C 230V 50/60Hz	16102-04	HBC-200	HBC-100-140FR	FDB140FR
Cole-Parmer® Block Heater Calibrator 140°C 120V 50/60Hz	16102-05	HBC-200	HBC-100-140FS	FDB140FS
Cole-Parmer® Block Heater Calibrator 425°C 230V 50/60Hz	16102-28	HBC-200	HBC-200-425FR	FDB425FR
Cole-Parmer® Block Heater Calibrator 425°C 120V 50/60Hz	16102-15	HBC-200	HBC-200-425FR	FDB425FS
Cole-Parmer® Block Heater Calibrator 650°C 230V 50/60Hz	16104-46	HBC-200	HBC-200-650FR	FDB650FR
Cole-Parmer® Block Heater Calibrator 650°C 120V 50/60Hz	16104-47	HBC-200	HBC-200-650FS	FDB650FS

Accessories

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Soft Carry Case for HBC-100-140FR and HBC-100-140FS	99966-05	HBC-100	-	FSC140F
Soft Carry Case for HBC-100-140FR and HBC-200-425FS	99967-98	HBC-100	-	FSC425F



Portable Dri-Block Calibrator HBC-100

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