

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

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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



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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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