Heating & Cooling Blocks

Indispensable for incubation and activation of cultures, culture enrichment, enzyme reactions, immunoassay, etc.

CCB-350

CHB-350S

CHB-350T

Heating & Cooling Block
Heating Blocks

SELECTION GUIDE

- Heating & Cooling Blocks
- Heating Blocks

Description		Temperature Range (℃/℉)	Temperature Fluctuation [±℃/℉]	Temperature Variation [±℃/℉]	Page
Heating & Cooling Block	CCB-350	Amb. -20 to 95 / Amb. -36 to 203	0.06 / 0.11 at 37℃	0.15 / 0.27 at 37℃	149
Heating Blocks	CHB-350S	Amb. +5 to 130 / Amb. +41 to 266	0.1 / 0.18 at 80℃	0.2 / 0.36 at 80℃	150
	CHB-350T				

Heating & Cooling blocks

Heating & Cooling Block

Rapid cooling and heating in centrifuge tubes, sample vials, micro tubes within the broad temperature range.

Outstanding temperature compensation function guarantees precise temperature control.

CCB-350 with the optional Blocks

Included Accessories • Block Lifters (2ea)
Optional Accessories • Tube Blocks

see page 151

Operating Features

- Precision accuracy of ±0.1°C is ensured by its PID controller.
- Wide temperature control range from Amb. -20 to 95°C with rapid cool down and heat-up times.
- Simple temperature calibration.
- Memory function of programmed protocols allowing relevant parameters of each protocol step to be stored.
  - Up to 10 protocols allowed for memory storage.
  - Up to 10 steps allowed for each protocol.
- Two types of timer modes:
  - Timer 1 starts immediately after the timer setting.
  - Timer 2 starts only after reaching the set temp.

Constructional Features

- Cooling is controlled by Peltier elements for an energy efficient compact design.
- Bright VFD display with responsive touch buttons.
- Its polypropylene main body is highly chemical-resistant and easy-to-clean.
- Optimal heat transfer is achieved by the tight coupling design of the main body and the corrosion-resistant anodized aluminum blocks.
- Transparent lid allows easy sample monitoring and even temperature distribution.
- Blocks can be easily interchanged by the included block lifter.

Specifications & Ordering Information

Model		CCB-350
Control System		Feedback control PID
Display		VFD(0.1℃ resolution)
Temperature	Range (℃ / ℉)	Amb. -20 to 95 / Amb. -36 to 203
	Fluctuation at 37℃ (±℃ / ℉)	0.06 / 0.11
	Variation at 37℃ (±℃ / ℉)	0.15 / 0.27
Safety	Over Temp.	Heating plate
		PCB
	Over Current	Current limit protection
Dimension (W×D×H)	Internal (mm / inch)	99 x 77.5 x 36 / 3.9 x 3.1 x 1.4
	Overall (mm / inch)	249×325×168 / 9.8×12.8×6.6
	Net Weight (kg / lbs)	5.0 / 11.0
Electrical Requirements (230V, 50 / 60Hz)		2 A
Cat. No.		AAHJ5015K
Electrical Requirements (120V, 60Hz)		4 A
Cat. No.		AAHJ5013U

Heating & Cooling blocks

Heating Blocks

Ideal for simultaneous sample heating of multiple vials or test tubes with uniform and precise temperature control.

Operating Features

- Precision accuracy of ±0.1°C is ensured by its PID controller from ambient + 5°C to 130°C.
- Its built-in temperature limit setting feature (with max. 0.2°C overshooting) allows you to perform highly temp. sensitive reactions such as isothermal amplifications.
- Automatic power cutoff.
  - If the temperature of the main body exceeds 150°C.
  - If the internal circuit is overheated.
- Two types of timer modes:
  - Timer 1 starts immediately after the timer setting.
  - Timer 2 starts only after reaching the set temperature.

Constructional Features

- Its polypropylene main body is highly chemical-resistant and easy-to-clean.
- Optimal heat transfer is achieved by the tight coupling design of the main body and the corrosion-resistant anodized aluminum blocks.
- Bright VFD display with responsive touch buttons.
- Transparent lid allows easy sample monitoring and even temperature distribution.
- Blocks can be easily interchanged by the included block lifter.

CHB-350S / CHB-350T
with the optional Blocks

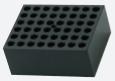
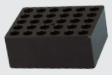
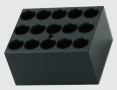
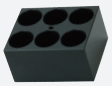
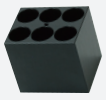
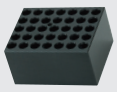
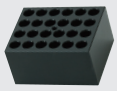
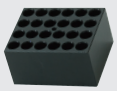
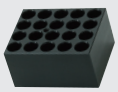
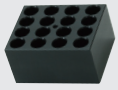
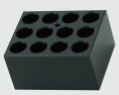
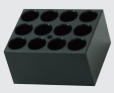
Included Accessories • Block Lifters (2ea)
Optional Accessories • Tube Blocks

see page 151

Specifications & Ordering Information

Model		CHB-350S	CHB-350T
Control System		Feedback control PID	
Display		VFD(0.1℃ resolution)	
Temperature	Range (℃ / ℉)	Amb. +5 to 130 / Amb. +41 to 266	
	Fluctuation at 80℃ (±℃ / ℉)	0.1 / 0.18	
	Variation at 80℃ (±℃ / ℉)	0.2 / 0.36	
Safety	Over Temp.	Heating plate	
		PCB	
	Over Current	Current limit protection	
Dimension (W×D×H)	Internal (mm / inch)	154×99×37 / 6.1×3.9×1.5	
	Overall (mm / inch)	249×325×120 / 9.8×12.8×4.7	249×325×250 / 9.8×12.8×9.8
	Net Weight (kg / lbs)	3.9 / 8.6	4.3 / 9.5
Electrical Requirements (230V, 50 / 60Hz)		3.5A	
Cat. No.		AAHJ1015K	AAHJ1115K
Electrical Requirements (120V, 60Hz)		6.7A	
Cat. No.		AAHJ1013U	AAHJ1113U

Tube Blocks

Block	Cat. No.	Description	Max. Mountable Tube	WxDxH (mm, inch)	Mountable Capacity of Blocks		
					CHB-350S	CHB-350T	CCB-350
	CHB0030	96-well Tube Block (microtube)	0.2mL x 96 holes	153×98×41 / 6×3.9×1.6	1	1	-
	CHB0029	0.5 mℓ Tube Block (microtube)	0.5mL x 48 holes	98×76.5×41 / 3.9×3×1.6	2	2	1
	CHB0045	1.5 mℓ Tube Block (microtube)	1.5mL x 30 holes	98×76.5×41 / 3.9×3×1.6	2	2	1
	CHB0028	1.5 mℓ Tube Block (microtube)	1.5mL x 48 holes	153×98×41 / 6×3.9×1.6	1	1	-
	CHB0031	15 mℓ Tube Block (centrifuge tube)	15mL x 15 holes	98×76.5×51 / 3.9×3×2	2*	2	1*
	CHB0032	50 mℓ Tube Block (centrifuge tube)	50mL x 6 holes	98×76.5×51 / 3.9×3×2	2*	2	1*
	CHB0033			98×76.5×87 / 3.9×3×3.4	2*	2	1*
	CHB0034	Ø10 Tube Block	Ø10 x 35 holes	98×76.5×51 / 3.9×3×2	2*	2	1*
	CHB0035	Ø12 Tube Block	Ø12 x 24 holes		2*	2	1*
	CHB0036	Ø13 Tube Block	Ø13 x 24 holes		2*	2	1*
	CHB0037	Ø15 Tube Block	Ø15 x 20 holes		2*	2	1*
	CHB0038	Ø16 Tube Block	Ø16 x 16 holes		2*	2	1*
	CHB0039	Ø18 Tube Block	Ø18 x 12 holes		2*	2	1*
	CHB0040	Ø20 Tube Block	Ø20 x 12 holes		2*	2	1*

* Available to use only when the lid is opened.