

Heating Block



Precise feedback temperature control up to 130°C

Structural Functional Features

- Optimal heat transfer is achieved by the tight coupling design of the main body.
- Transparent and durable polycarbonate lid protects the sample and provides improved temperature uniformity.
- Compact design makes it easy to move and use space.
- Polypropylene (PP) material with excellent chemical resistance.
- Two extractors for easy removal block are provided as standard.
- Aluminum blocks with excellent thermal conductivity. (option)
- Two models with different cover heights are provided depending on the block (tube size) used.
- Its built-in temperature limit setting feature (with max. 0.2°C overshooting) allows you to perform highly temperature-sensitive reactions such as isothermal amplifications.

Use Convenience Features

- The temperature can be set accurately in units of 0.1°C.
- Feedback control enables precise temperature control.
- Calibration function minimizes temperature deviation.
- Easy to operate with clear VFD display, touch keys and control knobs.
- Provides operating elapsed time check.
- Count-down timer provided. (up to 99 hours and 59 minutes)
- User can choose between CHB-350S and CHB-350T depending on the type of tubes and blocks.

Outstanding Safety

- Structure with minimal inflow of reagent or sample.
- Convenient and safe operation by notifying the status of heating condition.
- Overheating temperature prevention function. (Showing the error message if the temperature of the main body exceeds 140°C)
- Over-current prevention function. (Automatic power cutoff if the temperature of the main body exceeds 150°C)



CHB-350S

with Exchangeable Block (option)



CHB-350T

with Exchangeable Block 2ea (option)



with Extractor 2ea (standard)



Selects operation mode easily and intuitive speed control knobs.



Polycarbonate lid ensures excellent durability and convenient sample checking.



Provide various kinds of heating block.

Specification

Model	CHB-350S	CHB-350T
Temperature		
Range (°C / °F)	Amb. +5 to 130 / Amb +41 to 266	Amb. +5 to 130 / Amb +41 to 266
Fluctuation at 80°C (±°C / ±°F)	0.1 / 0.18	0.1 / 0.18
Variation at 80°C (±°C / ±°F)	0.5 / 0.9	0.5 / 0.9
Display	Up to 130°C, 0.1°C resolution	Up to 130°C, 0.1°C resolution
Heat up time Ambient to 130°C (min)	15	15
Control	Feedback control	Feedback control
Timer	1min to 99hrs 59min	1min to 99hrs 59min
Safety device	Over temperature protection, Over current protection	
Material		
Body	PP, Powder coated steel	PP, Powder coated steel
Cover	PC	PC
Block	Black hard anodized Aluminum	Black hard anodized Aluminum
Dimensions		
Exterior (W x D x H, mm / inch)	249 x 330 x 125 / 9.8 x 12.99 x 4.92	249 x 330 x 250 / 9.8 x 12.99 x 9.84
Net weight (kg / lbs)	3.9 / 8.6	4.3 / 9.48
Electrical Requirements (230V, 50/60Hz, A)	3.5	3.5
Cat. No.	AAHJ1015K	AAHJ1115K
Electrical Requirements (120V, 60Hz, A)	6.7	6.7
Cat. No.	AAHJ1013U	AAHJ1113U

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Heating Block for Round Flask and Vial

Detail Page 146

- The heating block is mounted on a hotplate or hotplate magnetic stirrer to heat safely (up to 300°C) the contents of the 25ml - 2000ml round flask or 1 dram ~ 40 ml vial.
- A safe solution to replace oil bath and heating mantle.
- Economical and eco-friendly by eliminating the need to purchase and dispose of oil separately.



Heating & Cooling Block



Convenient use thanks to easy temperature control with 10 programs and 10 steps

Structural Functional Features

- 10 Programs & 10 steps program control.
- Program can be set to 99 repetitions or unlimited repetitions.
- Optimal heat transfer is achieved by the tight coupling design of the main body.
- Transparent and durable polycarbonate lid protects the sample and provides improved temperature uniformity.
- Compact design makes it easy to move and use space.
- Polypropylene (PP) material with excellent chemical resistance.
- Two extractors for easy removal block are provided as standard.
- Aluminum blocks with excellent thermal conductivity. (option)

Use Convenience Features

- The temperature can be set accurately in units of 0.1°C.
- Feedback control enables precise temperature control.
- Calibration function minimizes temperature deviation.
- Easy to operate with clear VFD display, touch keys and control knobs.
- Provides operating elapsed time check.
- Count-down timer provided. (up to 99 hours and 59 minutes)

Outstanding Safety

- Structure with minimal inflow of reagent or sample.
- Convenient and safe operation by notifying the status of heating condition.
- Overheating temperature prevention function. (heating panel, control unit)
- Over-current prevention function.



CCB-350

with Exchangeable Block (option)



Specification

Model	CCB-350
Temperature	
Range (°C / °F)	Amb. -20 to 95 / Amb. -36 to 203
Fluctuation at 37°C (±°C / ±°F)	0.1 / 0.18
Variation at 37°C (±°C / ±°F)	0.5 / 0.9
Display	Up to 95°C, 0.1°C resolution
Control	Feedback control
Timer	1min to 99hrs 59min
Safety device	Over temperature protection, Over current protection
Material	
Body	PP, Powder coated steel
Cover	PC
Block	Black hard anodized Aluminum
Dimensions	
Exterior (W x D x H, mm / inch)	249 x 330 x 168 / 9.8 x 12.99 x 6.61
Net weight (kg / lbs)	5 / 11.02
Electrical Requirements (230V, 50/60Hz, A)	2
Cat. No.	AAHJ5015K
Electrical Requirements (120V, 60Hz, A)	4
Cat. No.	AAHJ5013U

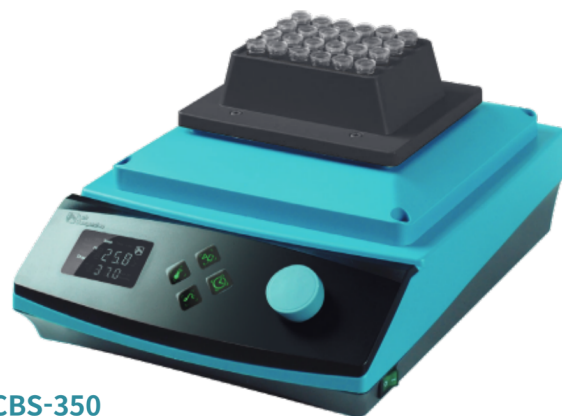
Heating Shaker



Up to 100°C, 1500rpm, and program control

Structural Functional Features

- Three specialized interval mix programs are provided. (45/55/65°C & 1,000rpm, 1 minute operation/stop)
- 10-step temperature and shaking control set.
- Program can be set to 99 repetitions or infinite repetitions.
- Optimal heat transfer is achieved by the tight coupling design of the main body.
- Compact design makes it easy to move and use space.
- Polypropylene (PP) material with excellent chemical resistance.
- Improved durability with integrated shaking module. (registration KR 10-1429256)
- Aluminum block with excellent thermal conductivity and block cover (option) made of polypropylene.



CBS-350

with Block (option)

Use Convenience Features

- The temperature can be set accurately in units of 0.1°C.
- Feedback control enables precise temperature control.
- Calibration function minimizes temperature deviation.
- Protecting the sample by starting with soft shaking.
- Easy to operate with clear VFD display, touch keys and control knobs.
- Provides operating elapsed time check.
- Count-down timer provided. (up to 99 hours and 59 minutes)

Outstanding Safety

- Structure with minimal inflow of reagent or sample.
- Convenient and safe operation by notifying the status of heating condition.
- Overheating temperature prevention function. (heating panel, control unit)
- Over-current prevention function.

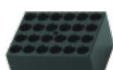
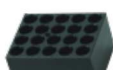
Specification

Model		CBS-350
Temperature		
Range (°C / °F)		Amb. +5 to 100 / Amb. +41 to 212
Fluctuation at 80°C (±°C / ±°F)		0.3 / 32.54
Variation at 80°C (±°C / ±°F)		0.7 / 33.26
Display		Up to 100°C, 0.1°C resolution
Control		Feedback control
Shaking System		
Motion type		Orbital
Speed range (rpm)	96-well tube block	150 to 1500
	0.5 ml tube block	150 to 1000
	1.5 ml/2.0 ml tube block	150 to 1000
	15 ml tube block	150 to 900
	Ø12 tube block	150 to 850
	Ø13 tube block	150 to 850
50 ml tube block		150 to 800
Amplitude, Orbital size (mm, dia.)		2
Timer		1min to 99hr 59min
Safety device		Over temperature protection, Over current protection
Material		
Body		PP, Powder coated steel
Cover		PP
Block		Black hard anodized Aluminum
Dimensions		
Exterior (W x D x H, mm / inch)		249 x 325 x 120 / 9.8 x 12.79 x 4.72
Net weight (kg / lbs)		8.25 / 18.19
Electrical Requirements (230V, 50/60Hz, A)		1.7
Cat. No.		AAHJ4015K
Electrical Requirements (120V, 60Hz, A)		3.4
Cat. No.		AAHJ4013U

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Accessories

Accessories for Heating Block, Heating & Cooling Block

Image	Model	Description	Max. Mountable Tube	Dimensions (W x D x H, mm / inch)	Mountable Capacity of Blocks		
					CHB-350S	CHB-350T	CCB-350
	10CHB0000028	1.5 / 2.0 ml Tube block (micro-tube)	48	153 x 98 x 41 / 6.02 x 3.86 x 1.61	1	1	-
	10CHB0000045	1.5 / 2.0 ml Tube block (micro-tube)	30	98 x 76.5 x 41 / 3.86 x 3.01 x 1.61	2	2	1
	10CHB0000029	0.5 ml Tube block (micro-tube)	48	98 x 76.5 x 41 / 3.86 x 3.01 x 1.61	2	2	1
	10CHB0000030	0.2 ml Tube block (micro tube / strips / 96-well plate)	96	153 x 98 x 41 / 6.02 x 3.86 x 1.61	1	1	-
	10CHB0000031	15 ml Tube block (conical tube)	15	98 x 76.5 x 51 / 3.86 x 3.01 x 2.01	2*	2	1*
	10CHB0000032	50 ml Tube block (conical tube)	6	98 x 76.5 x 51 / 3.86 x 3.01 x 2.01	2*	2	1*
	10CHB0000033	50 ml Tube block (conical tube)	6	98 x 76.5 x 87 / 3.86 x 3.01 x 3.42	2*	2	1*
	10CHB0000034	Φ10 mm Tube block	35	98 x 76.5 x 51 / 3.86 x 3.01 x 2.01	2*	2	1*
	10CHB0000035	Φ12 mm Tube block	24	98 x 76.5 x 51 / 3.86 x 3.01 x 2.01	2*	2	1*
	10CHB0000036	Φ13 mm Tube block	24	98 x 76.5 x 51 / 3.86 x 3.01 x 2.01	2*	2	1*
	10CHB0000037	Φ15 mm Tube block	20	98 x 76.5 x 51 / 3.86 x 3.01 x 2.01	2*	2	1*
	10CHB0000038	Φ16 mm Tube block	16	98 x 76.5 x 51 / 3.86 x 3.01 x 2.01	2*	2	1*
	10CHB0000039	Φ18 mm Tube block	12	98 x 76.5 x 51 / 3.86 x 3.01 x 2.01	2*	2	1*
	100CHB0000040	Φ20 mm Tube block	12	98 x 76.5 x 51 / 3.86 x 3.01 x 2.01	2*	2	1*

※ It can be equipped when the lid is opened.