

Heating & Cooling Block

Rapid cooling and heating in centrifuge tubes, sample vials, micro tubes within the broad temperature range of 4 to 95° C. Outstanding temperature compensation function guarantees precise temperature control.

Features

- > Precision accuracy of $\pm 0.1^{\circ}$ C is ensured by its PID controller.
- $>\,$ Wide temperature control range from 4 to 95°C with rapid cool down and heat-up times.
- > Maximum 9 temperature range-specific 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 only after reaching the set temp.
 - Timer 2 starts right after the timer setting.

Convenience

- > 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

Model		WB-350		
Order No.		W3033350		
Control system		Feedback control PID		
Display		VFD(0.1°C resolution)		
Temperature	Range (°C)	4 to 95		
	Fluctuation at 37°C (\pm °C)	0.1		
	Variation at 37°C (±°C)	0.5		
Safety	<u></u>	Heating plate		
	Over temp.	PCB		
	Over current	Current limit protection		
Dimension (W×D×H)	Interior (mm)	99 x 77.5 x 36		
	Exterior (mm)	249×330×168		
	Net weight (kg)	5.0		
Electrical requirements		230V, 50 / 60Hz/2A		

Permissible environmental conditions: temperature (2-60 $^\circ$ C) and relative humidity (up to 80%)

Multi-Purpose Heater / Dry Bath

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

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 only after reaching the set temp.
 - Timer 2 starts right after the timer setting.

Convenience

- > 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.



Specifications

Model		WB-350T	WB-350S	
Order No.		W3033351	W3033352	
Control system		Feedback control PID	Feedback control PID	
Display		VFD (0.1°C resolution)	VFD (0.1°C resolution)	
Temperature	Range (°C)	Amb. +5 to 130	Amb. +5 to 130	
	Fluctuation at 37°C (±°C)	0.1	0.1	
	Variation at 37°C (±°C)	0.5	0.5	
Safety	Quar tamp	Heating plate	Heating plate	
	Over temp.	PCB	PCB	
	Over current limit protection		Current limit protection	
Dimension (W×D×H)	Interior (mm)	154×99×37	154×99×37	
	Exterior (mm)	249×330×250	249×330×125	
	Net weight (kg)	4.3	3.9	
Electrical requirements		230V, 50 / 60Hz/2.8A	230V, 50 / 60Hz/2.8A	



Tube Blocks

Block	Order No.	Description	WxDxH (mm)	Mountable Capacity of Blocks		
				WB-350S	WB-350T	WB-350
	W3033001	0.2mL x 96 holes (microtube)	153×98×41	1	1	-
	W3033002	0.5mL x 48 holes (microtube)	98×76.5×41	2	2	1
	W3033003	1.5mL x 48 holes (microtube)	153×98×41	1	1	-
	W3033004	15mL x 15 holes (centrifuge tube)	98×76.5×51	2*	2	1*
	W3033005	50mL x 6 holes (centrifuge tube)	98×76.5×51	2*	2	1*
	W3033006	50mL x 6 holes (centrifuge tube)	98×76.5×87	2	2	1*
	W3033007	Ø10 x 35 holes	98×76.5×51	2*	2	1*
	W3033008	Ø12 x 24 holes	98×76.5×51	2*	2	1*
	W3033009	Ø13 x 24 holes	98×76.5×51	2*	2	1*
	W3033010	Ø15 x 20 holes	98×76.5×51	2*	2	1*
3333	W3033011	Ø16 x 16 holes	98×76.5×51	2*	2	1*
	W3033012	Ø18 x 12 holes	98×76.5×51	2*	2	1*
2222	W3033013	Ø20 x 12 holes	98×76.5×51	2*	2	1*

* Available to use only when the lid is opened.