

PCMT thermoshaker with cooling

2
year warranty

- VERSATILE** › A choice of 5 interchangeable blocks for microtubes and PCR plates
- EFFICIENT** › Fast heat-up and cooling time
- PRECISE** › Excellent temperature stability $\pm 0.1^{\circ}\text{C}$
- CONVENIENT** › Digital timer with alarm, LCD display, compact, simple to set up and use
- GREAT VALUE** › Excellent specification for the price
- FLEXIBLE** › 3 in 1 thermoshaker, shaker and thermostat



Specifications

	<p>PCMT</p> <p>4 kg h: 130 mm d: 230 mm w: 205 mm</p>
Temperature setting range	4 to 100°C
Temperature control range	ambient -15°C to +100°C
Temperature uniformity over the block	@ 4°C $\pm 0.6^{\circ}\text{C}$ / @ 37°C $\pm 0.1^{\circ}\text{C}$ / @ 100°C $\pm 0.3^{\circ}\text{C}$
Shaking speed	250 to 1400 rpm
Display	LCD screen, simple push buttons for speed, temperature and time
Average heat-up speed (HC15 block)	5°C / min from 25 to 100°C
Average cooling speed (HC15 block)	5°C / min from 100 to 25°C (~15 min) 1.8°C / min from 25 to 4°C (~8 min)
Maximum noise	53.8 dBA
External power supply	100-240V

Accessories

HC18

interchangeable block for 20 x 0.5 ml and 12 x 1.5 ml microtubes



HC24N

interchangeable block for 24 x 1.5 ml microtubes



HC24

interchangeable block for 24 x 2.0 ml microtubes



HC32

interchangeable block for 20 x 0.2 ml microtubes plus 12 x 1.5 ml microtubes



HC96

interchangeable block for 96-well unskirted PCR plates (0.2 ml)



Applications

Molecular biology - extraction of DNA, RNA and further sample preparation
 Biochemical studies of enzymatic reactions and processes
 Extraction of metabolites from cellular material

PHMT thermoshaker

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Specifications

	PHMT-PSC18	PHMT-PSC24N	PHMT-PSC24	PHMT-PSC32	PHMT-PSC96
					
	3.2 kg h: 130 mm d: 230 mm w: 205 mm	3.2 kg h: 130 mm d: 230 mm w: 205 mm	3.2 kg h: 130 mm d: 230 mm w: 205 mm	3.2 kg h: 130 mm d: 230 mm w: 205 mm	3.2 kg h: 130 mm d: 230 mm w: 205 mm
Capacity	Includes PSC18 block for 20 x 0.5 ml and 12 x 1.5 ml microtubes	Includes PSC24N block for 24 x 1.5 ml microtubes	Includes PSC24 block for 24 x 2.0 ml microtubes	Includes PSC32 block for 20 x 0.2 and 12 x 1.5 ml microtubes	Includes PSC96 block for 96-well PCR plate
Temperature setting range	25 to 100°C				
Temperature control range	ambient +5°C to 100°C				
Temperature uniformity over the block	@ 37°C $\pm 0.1^{\circ}\text{C}$ / @ 60°C $\pm 0.2^{\circ}\text{C}$ / @ 100°C $\pm 0.2^{\circ}\text{C}$				
Shaking speed	250 to 1400 rpm (increments 10rpm)				
Display	LCD screen, simple push buttons for speed, temperature and time				
Average heat-up speed	4°C / min from ambient to 100°C				
Maximum noise	54.7 dBA				
External power supply	100-240V				



Note: unit and blocks are available separately if required, see website for more details

Applications

Life-science - molecular biology, extraction of DNA, RNA and further sample preparation, biochemical studies of enzymatic reactions and processes, extraction of metabolites from cellular material, incubation, agitation, digestion of samples/standards for peptide mapping

Further product information:

Call us:

+ 44 (0) 1763 264 741

Email:

salesdesk@grantinstruments.com

PHMP thermoshaker for 2 or 4 microplates

2

year warranty

- NEW!** › Third model with extended temperature range to 100°C
- PRECISE** › Patented dual heating for excellent temperature uniformity across the platform and reduced well condensation
- EFFICIENT** › Fast heat-up , easy to operate
- CONVENIENT** › Continuous or timed operation, with alarm buzzer and automatic switch-off facility
- VERSATILE** › 3 in 1 - microplate thermoshaker, incubator without shaking, shaker for cold room or ambient temperatures



Specifications

	PHMP 6.1 kg h: 125 mm d: 250 mm w: 265 mm 	PHMP-100 5.9 kg h: 125 mm d: 260 mm w: 270 mm 	PHMP-4 8.8 kg h: 140 mm d: 390 mm w: 380 mm 
Capacity	2 microplates	2 microplates	4 microplates
Temperature setting range	+25 to 60°C	+25 to 100°C	+25 to 60°C
Temperature control range	ambient +5 to 60°C	ambient +5 to 100°C	ambient +5 to 60°C
Temperature uniformity	@ 37°C ±0.25°C	@ 37°C ±0.2°C	@ 37°C ±0.25°C
Temperature stability	±0.1°C		
Shaking speed	250 to 1200 rpm		
Timer	1 min to 96 hrs with automatic switch-off / non-stop (1 min increment)		
Display	LCD screen, simple push buttons for speed, temperature and time, 16 x 2 signs		
Average heat-up speed	12 min from 25 to 37°C 35 min from 37 to 60°C 60 min from 25 to 100°C* (PHMP-100 only)		
Maximum height of microplates	18 mm		
External power supply	100-240V		



* PHMP-100 only

Applications

Cytochemistry - for in situ reactions
 Biochemistry - for enzyme and protein analysis, incubation for biomarker and protein binding assays
 Immunochemistry - for immunofermentative reaction, ELISA incubation
 Molecular biology (for microbial cell cultivation and DNA analysis)

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FTA-1 aspirator

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year warranty

- CONVENIENT** › Small, compact and easy to use, personal tool for independent use away from in-line lab vacuum supply.
Fits a standard 200 µl 'yellow' tip
- VERSATILE** › Tube holder accommodates two tubes or optional 8 channel adaptor.
- FLEXIBLE** › Slim power cord allows unit to be used inside workstations and incubators
- EFFICIENT** › 99.9% efficient hydrophobic microbiological filter eliminates risk of contamination from trap flask
- GENTLE** › Precise removal of low volume supernatant without losing sample



Specifications

	FTA-1 1.7 kg h: 340 mm d: 210 mm w: 160 mm	
Vacuum	-500 mbar	
Trap flask volume	1L	
External power supply	100-240V	

Accessories (full range available on website)

MA-8

8 channel adaptor kit, includes tube adaptor, 8 channel aspiration tip and 8 channel tip holder



MA-8T

8 channel aspiration tip

Applications

Aspiration/removal of alcohol/buffer remaining quantities from microtest tube walls during DNA/RNA purification and other macromolecule precipitation techniques.

For routine operations of cells washing from culture medium and resuspension in buffer.

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