# grant



# Thermoshakers

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A range of compact, efficient and highly versatile thermoshakers, with excellent temperature uniformity. Ideal for applications requiring heating/cooling and shaking in microplates and microtubes. Suitable for use in cold rooms and incubators (operating temperature range +4°C to 40°C).

By combining the mixing operation with heating/cooling, reaction process times and operator workload are reduced, efficiency and throughout are increased.

Thermoshaker with cooling - for microtubes and PCR plates - PCMT

Thermoshaker - for microtubes and PCR plates - PHMT

Thermoshaker - for microplates - PHMP

Thermoshaker - for deep well plates - TS-DW



### PHMT Thermoshaker for microtubes and PCR plates

Variable speed and temperature thermoshaker combining three devices in one for maximum versatility and efficiency.

- Microtube and microplate thermoshaker
- Compact benchtop incubator
- Microtube and microplate shaker in cold or ambient temperatures

Temperature setting range +25°C to 100°C

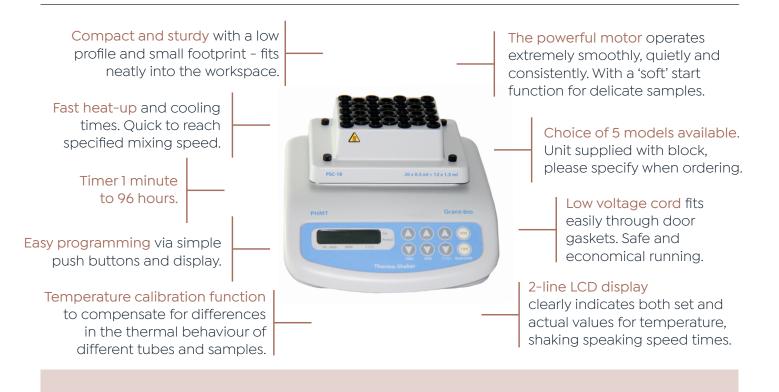
Temperature control range +5°C above ambient to 100°C

Shaking speed: 250 to 1400rpm

Capacity for up to 24 or up to 32 mixed sized microtubes or PCR 96-well plate

Fast start with three seconds to maximum shaking speed

Mixing and incubation phases are combined reducing reactions process times



#### Applications

• Life-science - genetic analyses, 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

#### PHMT Technical specifications

		PHMT-PSC18	PHMT-PSC24N	PHMT-PSC24	PHMT-PSC32	PHMT-PSC96
		For microtubes			For microplates	
Dimensions	hxdxw mm	130 x 240 x 220				
Temperature range	°C	+ 25 to 100				
Temperature control range °C		+ 5 ambient to 100				
Uniformity over block	@+37°C ±°C	0.1				
	@+60°C ±°C	0.2				
Shalving speed	@+100°C ±°C	0.2 250 to 1400 (increments 10 rpm)				
Shaking speed rpm		250 to 1400 (increments 10 rpm)				
Heat up speed to 100°C		4°C per minute 2-line x 16-character LCD				
Display (temperature) Capacity	microtubes	20 x 0.5ml & 12 x 1.5ml	24 x 1.5ml	24 x 2.0ml	20 x 0.2ml & 12 x 1.5ml	_
Capacity	PCR plates	-			96 well PCR plate	
Orbit diameter	mm	2				
Timer		1 minute to 96 hours (1-minute increment)				
Maximum noise	dba	54.7				
Heating power	W		42			
External power supply		Input AC 100-240V, 50/60Hz Output DC 12V				
Power consumption W		42 (3.5A)				
Input voltage	V dc	12				
Weight	kg	3.2				
Weight (with block) kg		4				

#### PCMT Options and accessories

PSC18	Additional/spare block: 20 x 0.5ml microtubes plus 12 x 1.5ml microtubes
PSC24N	Additional/spare block: 24 x 1.5ml microtubes
PSC24	 Additional/spare block: 24 x 2.0ml microtubes
PSC32	Additional/spare block: 20 x 0.2ml microtubes plus 12 x 1.5ml microtubes
PSC96	Additional/spare block: 96-well PCR plate.



Pricing on any accessories shown can be found by keying the part number into the search box on our website. The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.