

## PHMT - thermoshaker for microtubes and PCR plates

Variable speed, variable temperature thermoshaker combining three instruments in one for maximum versatility and efficiency:

- A microtube and microplate thermoshaker
- A compact benchtop incubator
- A microtube and microplate shaker in cold or ambient temperatures

- Capacity for up to 24 or up to 32 microtubes or PCR 96 well plate
- Temperature setting range: +25°C to 100°C
- Temperature control range: +5°C above ambient to 100°C
- Shaking speed: 250 to 1400rpm
- Rapid heat-up speed
- Continuous or timed operation, with alarm and automatic switch-off facility
- Improved fast start: 3 seconds to maximum shaking speed
- Temperature calibration function



Model PHMT-PSC18 shown

**2-line LCD display** clearly indicates both set and actual values for temperature, shaking speed and time.

**Easy programming** via simple push buttons and display.

**Choice of five models available:**

- **PHMT-PSC18** (20 x 0.5ml plus 12 x 1.5ml microtubes)
- **PHMT-PSC24N** (24x 1.5ml microtubes)
- **PHMT-PSC24** (24x 2.0 ml microtubes)
- **PHMT-PSC32** (20x 0.2ml microtubes and 12 x 1.5ml microtubes)
- **PHMT-PSC96** (96-well PCR plates, 0.2ml)

Unit supplied with a block, please specify when ordering.

**Convenient interchangeable block** for 20 or 12 microtubes provides flexibility for an easy change in application.

**Temperature calibration function** to compensate for differences in the thermal behaviour of different tubes and samples.

**The powerful motor** operates extremely smoothly, quietly and consistently. With 'soft' start function for delicate samples.

**Timer 1 min to 96 hours.**

**Low voltage cord** easily fits through door gaskets, allowing use in incubators, refrigerators and workstations.

**Fast start** - acceleration 3 seconds.

**Compact and sturdy**, with a low profile and small footprint – fits neatly into the workspace and provides years of reliable service.






### 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






## Thermoshakers » PHMT » Technical specifications and accessories

## PHMT – Technical specifications

● = optional

	For microtubes				For microplates
	PHMT-PSC18	PHMT-PSC24N	PHMT-PSC24	PHMT-PSC32	PHMT-PSC96
					
	h: 130mm d: 230mm w: 205mm weight: 3.2kg	h: 130mm d: 230mm w: 205mm weight: 3.2kg	h: 130mm d: 230mm w: 205mm weight: 3.2kg	h: 130mm d: 230mm w: 205mm weight: 3.2kg	h: 130mm d: 230mm w: 205mm weight: 3.2kg
Temperature setting range	°C +25 to 100				
Temperature control range	°C +5 above ambient to 100				
Temperature uniformity over the block	±°C @ +37°C 0.1 @ +60°C 0.2 @ +100°C 0.2				
Display	2 line x 16 character LCD				
Heat up speed to 100°C	4°C per min				
Capacity	ml 32 microtubes 20 x 0.5 & 12 x 1.5	24 x 1.5 microtubes	24 x 2.0 microtubes	32 microtubes 20 x 0.2 & 12 x 1.5	96-well PCR plate
Shaking speed rpm	250 to 1400				
Orbit diameter	mm 2				
Timer	1 min to 96 hours (1min increment)				
Weight	kg 4				
External power supply	Input AC 120-230V, 50/60Hz Output DC 12V				
Input voltage	V dc 12				
Power Consumption	W 42 (3.5A)				
Heating power	W 42				
Maximum noise	dBA 54.7				

## Accessories

<b>PSC18 additional/ spare block</b> 20 x 0.5 ml microtubes plus 12 x 1.5 ml microtubes		●
<b>PSC24N additional/ spare block</b> 24 x 1.5 ml microtubes		●
<b>PSC24 additional/ spare block</b> 24 x 2.0 ml microtubes		●
<b>PSC32 additional/ spare block</b> 20 x 0.2 ml microtubes plus 12 x 1.5 ml microtubes		●
<b>PSC96 additional/ spare block</b> 96-well microplates (0.2 ml)		●