

Thermal Shaker

Precision Heating, Cooling, and Shaking

The PLP-SMB-MC Thermal Shaker is a high-performance dry bath designed for seamless heating, cooling, and mixing. Engineered for superior temperature accuracy and uniformity, this versatile instrument is an essential tool for molecular biology, biochemistry, and microbiology labs.

Intelligent Control: Utilises a microcomputer-controlled metal bath for high-precision temperature management and precise oscillation speeds with minimal fluctuation.

Durable Performance: Driven by a brushless DC motor, ensuring a long operational lifespan and maintenance-free reliability.

Versatile Modular Design: Compatible with multiple standard sample modules for easy replacement. Custom modules are also available to meet specific laboratory requirements.

Programmable Timer: Features an integrated timer function (1 minute to 99 hours, 59 minutes) with an audible alarm to alert users when cultivation is complete.

User-Friendly Interface: Clear digital display showing actual vs. set parameters for temperature, time, and speed.



ID: PLP-SMB-MC



Part N.	PLP-SMB-MC
Temperature Range	4°C - 100°C
Cooling Time	≤15min from Room Temp. (25°C) to 4°C
Heating Time	≤12min from Room Temp. to 100°C
Temp. Control Accuracy	≤±0.5°C
Temp. Uniformity	≤±0.5°C
Speed Range	200~1500 RPM
Relative Humidity	≤70%
Power Consumption	200W
Power	AC100 ~ 240V / 50HZ/60HZ

Applications

- Genomics: Gene synthesis and purification.
- Proteomics: Gene and protein denaturation.
- Biochemistry: Enzyme reactions and kinetics.
- Microbiology: Specialised bacterial growth and cultivation.

Available Modules



Module A: 1.5ml x 35



Module B: 0.5ml x 54



Module C: 0.2ml x 96



Module D: 2.0ml x 35



Module E: 5.0ml x 24



Module F: 10ml x 15 (High lid)



Module G: 15ml x 12 (High lid)



Module H: 50ml x 6 (High lid)

Standard Module

A: 1.5ml x 35 (Recommended Speed 900-1500 RPM)

Optional Module

B: 0.5ml x 54 (Recommended Speed 1200-1300 RPM)

C: 0.2ml x 96 (Recommended Speed 1200-1400 RPM)

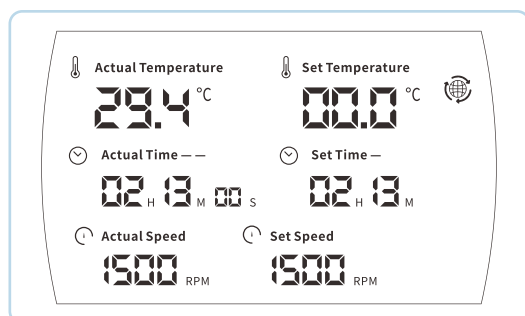
D: 2.0ml x 35 (Recommended Speed 800-1500 RPM)

E: 5.0ml x 24 (Recommended Speed 700-1400 RPM)

F: 10ml x 15 (High lid) (Recommended Speed 800-1300 RPM)

G: 15ml x 12 (High lid) (Recommended Speed 900-1000 RPM)

H: 50ml x 6 (High lid) (Recommended Speed 1200-1300 RPM)



Clear screen display provides complete information throughout the operating cycle.