

MAC

THERMO SHAKER

MSW-438(TS-PC)

WITH PELTIER HEATING - COOLING & MIXING



LCD Display



Over Temperature Protection



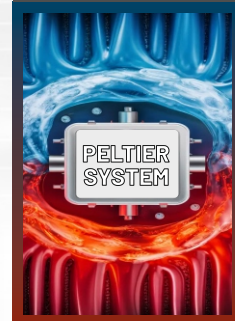
Multipoint operation



Multipoint temperature operation



WITH PELTIER
BASED
SEMI
CONDUCTOR
TECHNOLOGY



Product Detail



Features

- 1 Compact, programmable and overheating protection for safe sample handling
- 2 Precise temperature control for heating and cooling 5°C to 110°C for all major lab applications.
- 3 Interchangeable sample blocks available Applications
- 4 Most common application if for Reagent warming/cooling, DNA extractions, enzymatic reactions and reactions that need to be processed at or near room temperature.

Easy Data Processing

Heating/cooling integrated

Two modes of heating and cooling are optional, powerful functions



Heating mode

Microcomputer control, wide temperature control range, higher precision



Cooling mode

Semiconductor cooling no gaseous working medium, more environmental friendly

Humanization Design

Intelligent algorithm

The temperature difference during use is <0.5°C, the temperature control effect is good, and the experimental error is effectively reduced



www.macroscientificworks.com

Multiple programs running Programs can be set

Super program storage function, 9 group of processing time and temp. can be set when using, can directly call the program, after running a program it will automatically jump to next program, until all programs are finished, no need to operate multiple times, worry free

P1 P2 P3 P4 P5 P6 P7 P8 P9

The setting PROGRAM NO.

P01

Processing TEMPERATURE
corresponding to the program

30°C

Processing TIME
corresponding to the program

10min



Model	#DB-100(PCR-PRO)
Functions	Heating, cooling & mixing
Temp. range	Below room temp 15°C-100°C
Temp. Setting range	0.1°C ~ 100°C
Temp. Control accuracy	±0.5°C
Temp. uniformity	±0.5°C
Power	200 W
Time setting range	0min~99h30min
Max Heating speed	5.5°C/min
Max Cooling speed	2.5°C/min(100°C-Room Temperature) / 0.5°C/min(Below Room Temperature)
Mixing speed	200~1500
Mixing orbit	3
Display	LCD Display
Program	9
Overheating protection	150°C
Voltage, Frequency	220V, 50/60HZ
Dimension	200*235*120
Weight	7.3
Operating temperature	10-40
Operating humidity	<820
Adaptive module (at extra cost)	HBTS-1 - 96 Well PCR microplate
	HBTS-2 - Centrifuge tube:1.5ml*24
	HBTS-3 - Centrifuge tube:2ml*24
	HBTS-4 - Centrifuge tube:15ml*8
	HBTS-5 - Centrifuge tube:50ml*4