



Heating blocks, sometimes called dry block heaters are instruments providing a computer-controlled thermo-electric temperature environment for samples. Sample blocks are readily interchangeable to enable use of the heating block with a large variety of different tubes and plates.

These heating blocks are suitable for use for sample preparation, enzyme preservation, enzyme substrate reactions, restriction enzyme digestions and many other applications in the laboratory.

### 3 MODELS AVAILABLE:

- α ThermoCell Mixing Block –  
Heats, cools and mixes samples
- α ThermoCell Heating/Cooling Block –  
Heats and cools
- α ThermoCell Heating Block – Heats only

## THERMOCELL™ HEATING/COOLING BLOCKS

The ThermoCell Mixing block combines the functions of mixing and precise temperature control, providing a convenient means to incubate and react samples.

This unit employs Peltier Effect heat exchange technology to provide accurate, stable temperature control. It can be used with a selection of interchangeable blocks for plates or tubes.

Visit [www.alphalabs.co.uk/thermocell](http://www.alphalabs.co.uk/thermocell) for more information.

## KEY FEATURES:

- α Accurate control of time, temperature and speed
- α Exact temperature control with PID circuit
- α Gentle reliable mixing with long life direct current motor
- α Low noise working even at 1,500rpm
- α Special damping provides quiet operation even at high speeds
- α Choose from several standard sample blocks for plates or tubes
- α Large VFD display and simple controls provide a user-friendly interface
- α Conforms to CE safety standards

Technical Specifications	Mixing Block MB-102	Heating & Cooling Block CHB-202	Heating Block HB-202
Temperature Setting Range	0 - 105°C	-10°C - 105°C	10°C - 105°C
Temperature Control Range	RT. -14°C -100°C	0°C - 100°C	+5°C - 100°C
Timing Range	1 min - 99h 59min	1 min - 99h 59min	1 min - 99h 59min
Mixing Speed	300 rpm - 1,500 rpm	N/A	N/A
Mixing Amplitude	3 mm	N/A	N/A
Temperature Control Accuracy	≤±0.5°C	≤±0.5°C	≤±0.5°C
Display Accuracy	≤±0.5°C	≤±0.5°C	≤±0.5°C
Temperature Uniformity	≤±0.5°C	≤±0.5°C	≤±0.5°C
Heating Time	≤12 min (from 20°C - 100°C)	≤35 min (20°C - 100°C)	≤15 min (20°C - 100°C)
Cooling Time	≤8 min (from RT. to -10°C), ≤15 min (from 100°C-RT. +10°C)	≤25 min (20°C - 0°C) ≤50 min (100°C - 0°C)	N/A
Standard Block	A: 40 x 1.5ml B: 54 x 0.5ml C: 96 x 0.2ml D: 24 x 15mm  H: 40 x 2.0ml G: 26 x 0.5ml + 24 x 1.5ml J: ELISA block	A: 40 x 1.5ml B: 54 x 0.5ml C: 96 x 0.2ml D: 24 x 15mm E: Water Bath H: 40 x 2.0ml G: 26 x 0.5ml + 24 x 1.5ml J: ELISA block	A: 40 x 1.5ml B: 54 x 0.5ml C: 96 x 0.2ml D: 24 x 15mm E: Water Bath H: 40 x 2.0ml G: 26 x 0.5ml + 24 x 1.5ml J: ELISA block
Dimensions (mm)	328 x 166 x 249 (l x w x h)	300 x 200 x 150 (l x w x h)	300 x 200 x 150 (l x w x h)
Net Weight	8.5kg	3.3kg	2.8kg
Power Supply	AC 220V ±22V 50/60Hz ±1Hz 150W	AC 220V 50Hz 85W	AC 220V 50Hz 120W

\*NB: The performance parameters above are for standard block A only.  
RT means room temperature at 20-25°C