

Versatile mixer for a variety of applications



The Thermo Scientific Thermal Mixer is a versatile mixer with variable speed and temperature control for a variety of applications.

Applications

- Genetic analysis
- DNA and RNA extraction
- Sample preparation
- Biochemical studies of enzymatic reactions and processes
- Extraction of metabolites from cellular material
- Incubation
- Agitation
- Digestion
- Samples/standards for peptide mapping



The Thermo Scientific Thermal Mixer offers variable speed and temperature control with a choice of blocks for microtubes and microplates.

- Heating and cooling capability to cover a wide range of applications
- Compact size with quiet operation
- Convenient packages that include Thermal Mixer with a block

Features

- Fast heat-up and cooling times and quick to reach specified mixing speed
- Temperature range : +4°C to 100°C
- Temperature control range : 15°C below ambient to 100°C
- Shaking speed : 250 to 1400 rpm
- Temperature stability : $\pm 0.1^\circ\text{C}$
- Even mixing across the thermoshaker block
- Excellent uniformity across the block
- Digital timer with sound alarm : 1 min to 96 hours
- Temperature calibration function – Compensate for differences in the thermal behavior of different tubes and samples
- Choice of 5 interchangeable blocks
- LCD Display indicates the set and actual time of operation, mixing speed, and temperature
- Heating/Cooling and mixing functions can be run independently of each other

Product Specifications

Dimensions (H x D x W)	130mm x 230mm x 205mm
Weight	4 kg
Temperature Setting Range	4°C to 100°C
Temperature Control Range	15°C below ambient to +100°C
Temperature Uniformity Over Block	At 4°C $\pm 0.6^\circ\text{C}$ / at 37°C $\pm 0.1^\circ\text{C}$ / at 100°C $\pm 0.3^\circ\text{C}$
Temperature Display	LCD
Average Heat Up Speed	5°C/min from +25°C to +100°C
Average Cooling Speed	from 100°C to 25°C 5°C/min (approx. 15 mins) at 25°C to 4°C 1.8°C/min (approx. 8 mins)
Shaking Speed	250 to 1400 rpm
Orbit Diameter	2 mm
Timer (with auto-off and audible alarm)	1 min to 96 hours (1 min increment)
Heating/Cooling Power	60 W
Input Voltage	12V DC
Input Current	4.16 A
External Power Supply	120-240V
Maximum Noise	53.8 dB
Plug Types	US, UK and EU cord sets



2 year warranty, see representative for details.



Ordering Information

Convenient Package Ordering - With one part number you receive a Thermal Mixer and a block. See block sizes below. Order using corresponding package part number.

Description	Part No.
20 X 0.5 ml microtubes and 12 x 1.5 ml microtubes	13687720
24 X 1.5 ml microtubes	13687717
24 x 2.0 ml microtubes	13687718
20 X 0.2 ml microtubes and 12 x 1.5 ml microtubes	13687719
96-well microplates* or tube strips (0.2 ml)	13687721

Order Separately

Order components individually by selecting the part number below.

Description	Part No.
Thermo Scientific Thermal Mixer (blocks not included)	13687711
Block, 20 X 0.5 ml microtubes and 12 x 1.5 ml microtubes	13687715
Block, 24 X 1.5 ml microtubes	13687712
Block, 24 x 2.0 ml microtubes	13687713
Block, 20 X 0.2 ml microtubes and 12 x 1.5 ml microtubes	13687714
Block, 96-well microplates* or tube strips (0.2 ml)	13687716

*Block will accept non-skirted and semi-skirted round bottom plates.



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Australia +61 39757 4300
Austria +43 1 801 40 0
Belgium +32 53 73 42 41
China +800 810 5118 or
+400 650 5118
France +33 2 2803 2180
Germany national toll free 0800 1 536 376
Germany international +49 6184 90 6000
India toll free 1800 22 8374

India +91 22 6716 2200
Italy +32 02 95059 552
Japan +81 3 5826 1616
Netherlands +31 76 579 55 55
New Zealand +64 9 980 6700
Nordic/Baltic/CIS countries
+358 10 329 2200
Russia +7 812 703 42 15
Spain/Portugal +34 93 223 09 18

Switzerland +41 44 454 12 22
UK/Ireland +44 870 609 9203
USA/Canada +1 866 984 3766

Other Asian countries +852 3107 7600
Countries not listed +49 6184 90 6000

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