

**Benchmark** 

# MULTI-THERM™ Touch

COOL - HEAT - SHAKE



**Optional heated lid prevents condensation and evaporation**

- **Large touch screen for easy programming and viewing of status**
- **Multiple block options for plates and tubes up to 50ml**
- **Broad temperature and speed range to meet a variety of applications**
- **Advanced programming features:**
  - Adjustable ramp rates
  - Preheat function
  - Clockwise/counterclockwise mixing



# MULTI-THERM™ Touch

COOL - HEAT - SHAKE

Like the popular MultiTherm, the MultiTherm Touch features a broad temperature range to meet applications from denaturation of DNA to keeping samples cold (4°C) at the end of a protocol. A full color touch screen, expanded speed range (up to 3,000rpm), greater programming flexibility and a heated lid option are just a few of the upgraded features available with the MultiTherm Touch.

All operating parameters are easily entered and viewed on the large, full color, touch screen. Fifty programs can be stored, each including up to 5 steps. Programming features such as adjustable ramp rates, interval and directional mixing and preheat options can be set. A "short" button allows for immediate mixing at maximum speed.

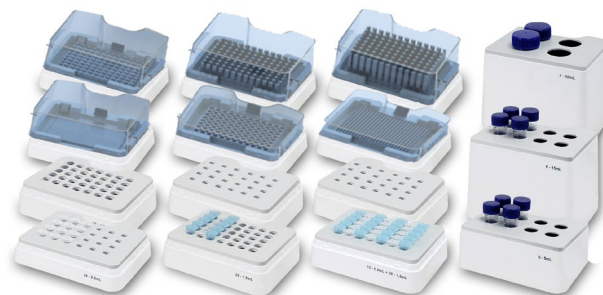
Fifteen block choices accommodate samples from 0.2ml to 50ml as well as a variety of plates. Blocks are quickly and easily interchanged without the use of tools and are automatically recognized by the software. Insulation protects the users from hot surfaces and helps to maintain block temperature.

Condensation can have negative effects on delicate samples and reactions by changing the concentration of reactants. The heated lid option, available for use with tubes up to 5ml and microplates, protects samples by warming the air in the tube and preventing condensation.

Easy to use and reliable in operation, the MultiTherm Touch is covered by a 2 year warranty. Blocks and heated lid are sold separately.



Complete touch screen control



15 block options for tubes from 0.2ml to 50ml, PCR plates, microplates and deep well plates

## Technical Data

Display/control	4.3 inch color touch screen with graphical interface
Speed range	200 - 3,000rpm (block dependent)
Shaker orbit	3 mm
Temperature range	Ambient -20° to 105°C
Temperature uniformity	±0.5°C
Timer	1s- 99h:59m:59s or continuous
Program memory	50 programs
Steps/program	5 steps/program
Programming features	Adjustable ramp rate, mix mode, mix start, power failure restart, and heated lid temp
Additional features	Quick button, pause, import/export data and programs, automatic block recognition
Dimensions (W x D x H)	6.3x12.6x8.7 in./16x32x22cm
Weight	22 lbs/10kg
Electrical	100-240V, 50-60Hz
Warranty	2 years

## Ordering Information

H5100-HCT*	MultiTherm Touch, Heating/Cooling Vortexer, blocks sold separately
H5100-HL	Heated lid for above
<b>Available Blocks (max speed)</b>	
H5100-05 <sup>†‡</sup>	24 x 0.5ml (2,000rpm)
H5100-15 <sup>†‡</sup>	35 x 1.5ml (2,000rpm)
H5100-20 <sup>†‡</sup>	35 x 2ml (2,000rpm)
H5100-CMB <sup>†‡</sup>	15 x 0.5 and 20 x 1.5ml (2,000rpm)
H5100-5MT <sup>†</sup>	8 x 5ml (1,000rpm)
H5100-12	24 x 12mm dia (2,000rpm)
H5100-2CR	24 x 1.5/2ml cryovials (2,000rpm)
H5100-150	8 x 15ml (1,000rpm)
H5100-500	4 x 50ml (1,000rpm)
H5100-MP <sup>†‡</sup>	Standard microplate (3,000rpm)
H5100-2DWMP	2ml deep well plate (1,000rpm)
H5100-02 <sup>†‡</sup>	PCR plate/96 x 0.2ml (2,000rpm)
H5100-384 <sup>†‡</sup>	384 well plate (3,000rpm)
H5100-5DWMP <sup>†‡</sup>	0.5ml deep well plate (1,600rpm)
H5100-1DWMP <sup>†‡</sup>	1ml deep well plate (1,600rpm)
*115V with US plug. For EU plug, please add -E to cat no.	
†Compatible with heated lid ‡Supplied with standard lid	
Maximum speed reduced when using standard or heated lid	