



Incubating Cooling Thermal Shakers



Intuitive Incubating Cooling Thermal Shakers for Consistent High-Speed Shaking

Thermal Shakers are designed for applications that require consistent and precise high-speed shaking with temperature control to 100°C. With heating and shaking capabilities, OHAUS shakers use interchangeable blocks to accommodate tubes and microplates. Intuitive LCD touchscreen allows the user to save and track progress of 5 user-defined programs, each with 5 individual steps. Enhanced electronics provide dependable temperature settings across the operating range.

Standard Features:

- **Program Control for Five, 5-Step Programs**
Program control capabilities allow user programmable operation for automated use and memory. Storage for five separate, 5-step programs, or unlimited if using the USB.
- **Enhanced Electronics Provide Accurate Temperatures Across the Range**
Enhanced electronics provide accurate and dependable temperature settings across the operating range. Cooling models utilize dual temperature sensors to reach temperatures down to 17°C below ambient.
- **Store and Transfer Data Easily With the Multi-Functional USB**
The USB port allows for easily transferring test data to a flash drive for data logging and storage. Also ideal for program storage and performing software updates.

Incubating Cooling Thermal Shakers

Model	ISTHBLHTS	ISTHBLCTS
Shaker Type	Thermal Shaker	Cooling Thermal Shaker
Control	Touchscreen	
Motion	Orbital, 0.1 in. / 3 mm	
Speed Range	300 – 3000 rpm	
Speed Accuracy	± 2%	
Temperature Range	Ambient + 4 °C – 100 °C	17 °C below Ambient – 100 °C
Temperature Accuracy	+/- 1 °C between 20 °C and 45 °C; +/- 2 °C above 45 °C	+/- 0.5 °C between 20 °C and 45 °C; +/- 2 °C below 20 °C and above 45 °C
Heating Rate	5 °C/min	
Cooling Rate	Above ambient 2-3 °C/min, Below ambient 0.5-10 °C/min	
Timer	1 second – 99 hours, 59 minutes	
Capacity	1 Thermal block	
Working Environment	41 °F – 95 °F, 80% RH*, non-condensing / 5 °C – 35 °C, 80% RH, non-condensing	
Display	4.3 in. / 10.9 cm color touchscreen LCD	
Drive System	Brushless DC Motor	
Overall Dimensions (L x W x H)	10.6 x 10.03 x 5.4 in. / 269 x 262 x 137 mm	
Net Weight	10.8 lb / 4.9 kg	
Power	120V, 1.8A, 50/60Hz	
Power Consumption	215 W	

*Relative Humidity

Other Standard Features and Equipment

Unit supplied with block for 24 x 1.5 mL tubes, removable rack and cover. Detachable 3-wire cord and plug (included).

Additional features: hot top indicator, audible alarm, maximum temperature limiting function, temperature priority function, pulse/quick mix mode, temperature calibration mode, temperature ramp rate function

Compliance

- **Product Safety:** CAN/CSA C22.2 61010-1, CAN/CSA C22.2 61010-2-010, CAN/CSA C22.2 61010-2-051, UL 61010-1
- **Electromagnetic Compatibility:** ICES-003 Class A, FCC Part 15 Class A
- **Compliance Marks:** TÜV SÜD

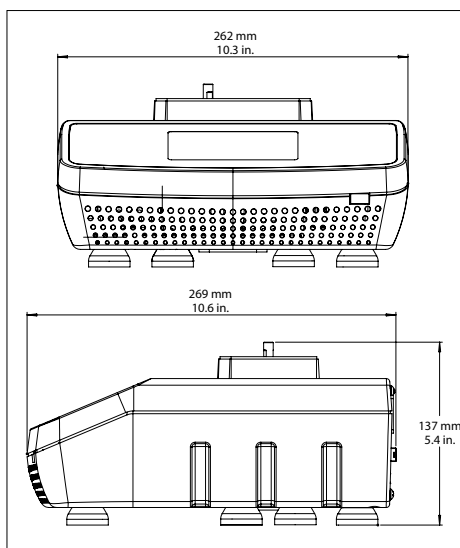
Applications

DNA, RNA, cell cultures, hybridizations, protein studies

Accessories

Item No.	Description
30400126	Microplate Thermal Block
30400127	384 Well PCR Plate Thermal Block
30400128	0.2 mL PCR Plate/Tube Thermal Block
30400129	Block For 30 x 0.5 mL Tubes
30400130	Block For 24 x 1.5 mL Tubes
30400131	Block For 24 x 2.0 mL Tubes
30400132	Block For 24 x 5-7 mL Tubes (12 mm)
30400133	Block For 24 x 2.0 mL Cryotubes
30400134	Block For 9 x 5 mL Eppendorf Tubes
30400135	Block For 8 x 15 mL Conical Tubes
30400136	Block For 4 x 50 mL Conical Tubes
30400250	Rack For 30 x 0.5 mL Tube Block
30400251	Rack For 24 x 1.5 / 24 x 2.0 mL Tube Blocks
30400252	Cover For 0.5 mL / 1.5 mL / 2.0 mL Tube Blocks

Dimensions



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The management system governing the manufacture of this product is ISO 9001:2015 certified.

