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 / ISTHBLHTSN**	ISTHBLCTS / ISTHBLCTSN**
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 × W × H)	10.6 × 10.03 × 5.4 in. / 269 × 262 × 137 mm	
Net Weight	10.8 lb / 4.9 kg	
Power	120V, 1.8A, 50/60Hz	
Power Consumption	215 W	

*Relative Humidity **Accessory block not included with unit.

Other Standard Features and Equipment

ISTHBLHTS and ISTHBLCTS units are supplied with block for 24 × 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

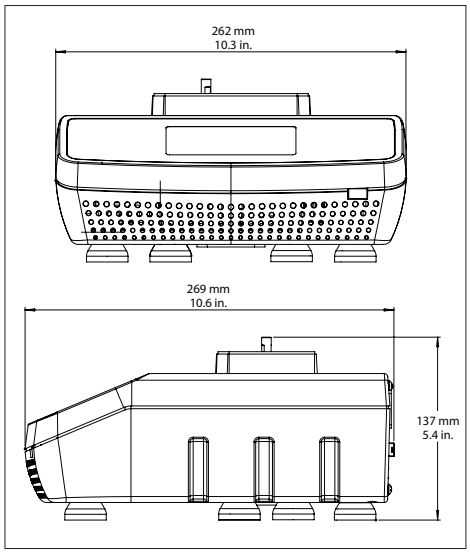
Applications

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 × 0.5 mL Tubes
30400130	Block For 24 × 1.5 mL Tubes
30400131	Block For 24 × 2.0 mL Tubes
30400132	Block For 24 × 5-7 mL Tubes (12 mm)
30400133	Block For 24 × 2.0 mL Cryotubes
30400134	Block For 9 × 5 mL Eppendorf Tubes
30400135	Block For 8 × 15 mL Conical Tubes
30400136	Block For 4 × 50 mL Conical Tubes
30400250	Rack For 30 × 0.5 mL Tube Block
30400251	Rack For 24 × 1.5 / 24 × 2.0 mL Tube Blocks
30400252	Cover For 0.5 mL / 1.5 mL / 2.0 mL Tube Blocks

Dimensions



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