heating thermoshaker with heated lid for speeds 3000 rpm

Heating thermoshaker through accurate temperature control technology and strong oscillation function, the instrument can ensure uniform temperature at the same time, efficiently complete the sample mixing, incubation and heating tasks.

Heating Thermoshaker

Main Features

1. One machine multi-purpose design: Independently control heating, oscillation, and timing functions for flexible adaptation to different experiments.
2. Metal module: High thermal conductivity ensures uniform temperature distribution; modules are easy to replace and maintain.
3. Efficient oscillation: Mixing frequency up to 3000rpm for thorough mixing and stability of liquids and solutions.
4. Adjustable temperature hot cover: Prevents sample evaporation, contamination, and cross-infection for accurate results.

5. Fan cooling function: Built-in fan quickly reduces module cooling time, maintaining set temperature and minimizing fluctuations.
6. Low noise, long life motor: Brushless DC motor offers smooth, quiet, maintenance-free operation for continuous use.
7. Real-time LCD display: Large screen shows temperature and speed information for intuitive monitoring and operation.
8. Short oscillation function: Enables rapid mixing for experiments needing quick, uniform sample preparation.
9. Multi-point operation & cycle: Supports multi-point and segmented programs for complex experiments and higher efficiency.
10. Alarm prompt: Automatic notification at program end for timely experiment management.
11. Power failure recovery & auto power-on: Resumes operation after power outages and auto-starts for uninterrupted experiments.
12. Temperature calibration: Built-in calibration maintains long-term accuracy of the temperature control system.
13. Over-temperature protection: Dual software/hardware system auto-stops on abnormal temperature for safety and equipment longevity.

Core Advantages

1. High-precision temperature control: PID technology ensures accurate regulation and protects samples from temperature swings.
2. Powerful mixing: 3000rpm oscillation for efficient sample mixing across various solutions and reagents.
3. Flexible operation: Combine heating, oscillation, and cooling as needed, reducing mid-experiment equipment changes.
4. Intelligent control & safety: Microprocessor system and dual over-temperature protection for safe, stable long-term use.
5. Rapid cooling & efficient cover: Fan cooling and adjustable hot cover minimize sample evaporation and cross-contamination.
6. Easy operation & maintenance: Modular design and brushless motor simplify cleaning, reduce maintenance and costs.

Working Principle

1. Heating process: Efficient heat conduction and PID control ensure rapid, accurate temperature rise without overshoot.
2. Oscillation: Brushless motor drives 3000rpm platform for fast, uniform mixing.

3. Cooling system: Built-in fan prevents overheating and quickly restores safe operating temperature.
4. Temperature control: PID system adjusts heating/cooling rates for constant temperature throughout the experiment.
5. Thermal cover: Adjustable hot cover regulates heat release, preventing evaporation and uneven heating.

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Model	**TH30**
Temperature range	ambient+5°C to 105°C
Temperature resolution	0.1°C
Temperature accuracy	≤±0.2°C, at 37°C
Temperature uniformity	≤±0.2°C, at 37°C
Temperature rise time	≤10 minutes, 25°C to 100°C
Reduced temperature time	≤12 minutes, 100°C to 37°C

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Model	**TH30**
Hot lid temperature control mode	auto, manual
Hot lid temperature setting range	off, auto, 0°C to +110°C
Hot lid temperature control range	ambient+5°C to 110°C
Hot lid temperature rise time	≤10 minutes, 25°C to 110°C
Individual temperature control function for hot lids	yes
Speed	200 rpm to 3000 rpm

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Model	**TH30**
Orbit diameter	2 mm
Program segment storage	10 segment
Multi-point operation	5 points
Multi-point cycle operation	99 cycles
Timer	1 second to 99 minutes 59 seconds, 1 minute to 99 hours 59 minutes or continuous
External dimensions	300x2150x165mm

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Model	**TH30**
Power supply	220Vac, 50-60Hz, 335W
Weight	6.9kg

Optional accessories

Order code	**Descriptions**
mk30	96x0.2ml, 0.2ml PCR plate
mk31	54x0.5ml
mk32	35x1.5ml
mk33	35x2.0ml
mk34	15x0.5ml+20x1.5ml

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Model	**TH30**
mk34	15x0.5ml+20x1.5ml
Note	When the module is not installed, it can be used directly with enzyme labeling plates or deep-well plates.