HI839800

COD Test Tube Heater

with 25 Vial Capacity

- **Predefined Temperature Settings**
  - The test tube heater features two predefined temperature profiles at 150°C (221°F) and 105°C (301°F) that can be selected at the press of a button.

- **Temperature Alerts**
  - The HI839800 alerts users in the event that the temperature of the heating block is either above or below the set temperature. A timer icon reminds users to wait until the heating block has cooled or warmed up before inserting their samples.

- **Built-in Timer**
  - A built-in countdown timer of up to 180 minutes allows users to easily set the required digestion time by simply pressing the up and down arrows. Once a time has been set and the heating element is stable, a press of the START button begins the digestion procedure.

- **Status Indicator Lights**
  - Three LED lights are featured on the HI839800. A green LED indicates the heater has been turned on; a yellow LED indicates when the heater is actively heating up to a set temperature; a red LED indicates when the heater goes above 50°C, reminding the user that the aluminum element is hot.

- **Overheating Prevention**
  - The HI839800 contains a thermal fuse that prevents overheating. Should overheating occur, the heater automatically shuts down and all LED indicator lights turn off.

- **Reference Temperature Well**
  - In addition to the 25 vial capacity of the aluminum heating block, a small well is available for a temperature probe for users that wish to verify their heating block.

- **Two Operating Modes**
  - The HI839800 features two operating modes: idle and heating. Idle mode is the default mode in which the heater measures and displays the current temperature, target temperature, set reaction time, and an "idle" tag. Heating mode is activated when users press the START button; it starts when actively heating and continues during the countdown timer.

- **Continuous LCD Display**
  The block temperature is continuously displayed on the easy to read LCD display, even when there is no active temperature program running. All relevant information in addition to temperature are easily visible during idle and heating mode.

- **Error Messages**
  - Messages on display alerting to problems including high or low temperature, hot surface, or heating system malfunction.

The HI839800 COD Test Tube Heater features two predefined temperature profiles: 150°C and 105°C. Digestions for chemical oxygen (COD) and total phosphorus are conducted at 150°C, while total nitrogen digestions are conducted at 105°C. The test tube heater automatically heats up to the set temperature, holding it until the countdown timer has finished. Once the timer has ended, a beep will sound and the heating element will turn off. The outer casing of the HI839800 remains cool to the touch, even during a timed digestion. An optional lab safety shield and test tube cooling rack provide a complete setup for sample digestions.

Outer casing stays cool to the touch!

HI740217
Lab Safety Shield

HI740216
Test Tube Cooling Rack

For safety, the optional HI740217 safety shield and HI740216 test tube cooling rack for the HI839800 are strongly recommended.

Specifications	HI839800
Temperature of Reaction	105°C or 150°C (221°F or 302°F)
Temperature Stability	±0.5°C (±0.9°F)
Temperature Range	-10°C to 160°C (14°F to 320°F)
Accuracy	±2°C (±3.6°F)
Capacity	25 vials (dia 16 x 100 mm), one receptacle for a stainless steel reference thermometer
Warm-up Time	10-15 minutes, depending on selected temperature
Operating Mode	timed (0 to 180 minutes) or infinity mode
Block	aluminum
Environment	5 to 50°C (41 to 122°F)
Power Supply (fuse protected)	HI839800-01: 115 VAC; 60 Hz; 250 W; HI839800-02: 230 VAC; 50 Hz; 250 W
Dimensions	190 x 300 x 95 mm (7.5 x 11.8 x 3.7")
Weight	approximately 4.8 kg (10.6 lb.)
Ordering Information	**HI839800-01** (115V) and **HI839800-02** (230V) is supplied with power cable and instructions.

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