



HI839800
COD Reactor
for Chemical Oxygen Demand
and user-specific analysis

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The HI839800 thermo-reactor is made of sturdy materials and has a vial capacity of up to 25 simultaneous digestions. The reactor has three stored and three programmable (custom) temperature programs.

The stored programs support analysis methods at:

- 170 °C (all COD methods)
- 150 °C (all COD methods, Iron Total, Phosphorus Acid Hydrolyzable, Phosphorus Total methods)
- 105 °C (Chromium and Nitrogen Total methods)
- **Laboratory safety shield included**
 - The included safety shield is highly recommended to use during vial digestion procedure to maintain a safe working environment
- **Reactor block temperature continuously evaluated and displayed**
- **Built-in Countdown Timer**
 - A timer of up to 180 minutes is included for applications that require timed digestions. The end of the digestion time is signalled by an acoustic signal (5 short beeps) and "DONE" message is displayed. The heating is turned off and the block begins to cool off.
- **Status Indicator Lights**
 - POWER (on)
 - HOT (surface)
 - HEATING (in progress)
- **Overheating Prevention**
 - A thermal fuse in the reactor prevents overheating by turning off the heating element.

- **Reference temperature probe well**
 - A small temperature well can accommodate a temperature probe, useful for verifying the heating block.
- **Warnings and Error Messages**
 - The instrument displays warning messages when erroneous conditions appear and when values are outside the expected range such as high or low temperature, hot surface, or heating system malfunction.

Specifications

Temperature range*	30.0 to 170.0 °C (86 to 338 °F)
Accuracy	±2 °C
Temperature stability	±0.5 °C
Capacity	25 vials; Ø 16 mm x 100 mm (Ø 0.63" x 3.94") Reference temperature probe well
Warm-up time	10 to 15 minutes, depending on selected temperature
Digestion time	1 to 180 minutes
Environment	5 to 50 °C (41 to 122 °F)
Power supply (fuse protected)	115 Vac (HI839800-01) 230 Vac (HI839800-02)
Dimensions	190 x 300 x 95 mm (7.5 x 11.8 x 3.7")
Weight	Approximately 4.8 kg (10.6 lb.)

* Reactor displays outside temperature range of 20 - 30 °C (68 - 86 °F) and 170 - 180 °C (338 - 356 °F). Values below 20 °C (68 °F) and above 180 °C (356 °F) are not displayed.



HI839800 is supplied with:

- HI740217 Laboratory safety shield
- Power cable
- Quick reference guide with instructions for manual download and instrument quality certificate



Laboratory safety shield included