

# COD

# Chemical Oxygen Demand ANALYZER

Municipal Wastewater • Industrial Wastewater • Environmental Testing

HI 93754

HI 740216



All components have been designed for an accurate, easy, and safe measurement of COD: HI 83099 COD analyzer, HI 93754 series of pre-dosed reagents, HI 839800 test tube heater and HI 740216 test tube cooling rack.

*Each item can be ordered separately.*

## HI 839800 Cod Reactor & Test Tube Heater

HANNA's HI 839800 test tube reactor accepts up to 25 standard 16mm diameter cuvettes for each reaction cycle. With the HI 839800, the user can speed up the analysis process of large quantities of samples without sacrificing accuracy. An accurate temperature control system ensures the digestion develops exactly at  $150^{\circ}\text{C} \pm 2^{\circ}\text{C}$  as required by the Standard Methods.

### Accuracy and Safety

The HI 839800 COD reactor is constructed of durable materials. The aluminum block incorporates a 25-vial capacity and a well for a reference temperature probe.

## HI 83099 COD METER

HI 83099 is one of the most versatile photometers on the market. In addition to COD, this meter measures up to 47 of the most important water quality parameters.

### 47 additional methods

Aluminum	Chromium VI LR	Hardness (Mg)	Nickel LR	Potassium HR
Alkalinity	COD LR	Hydrazine	Nitrate	Potassium MR
Ammonia MR	COD MR	Iodine	Nitrite HR	Potassium LR
Ammonia LR	COD HR	Iron HR	Nitrite LR	Silica
Bromine	Color	Iron LR	Oxygen, Dissolved	Silver
Calcium	Copper HR	Magnesium	Ozone	Sulfate
Chlorine Dioxide	Copper LR	Manganese HR	pH	Zinc
Chlorine*, Free	Cyanuric Acid	Manganese LR	Phosphate HR	
Chlorine*, Total	Fluoride	Molybdenum	Phosphate LR	
Chromium VI HR	Hardness (Ca)	Nickel HR	Phosphorus	

For more information call

1.800.426.6287 (RI office) • 1.800.504.2662 (MI office)

www.hannainst.com • e-mail: sales@hannainst.com

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instruments

# Measurement Procedure

The entire COD measurement process has been designed for ease of use by personnel at any skill level. In addition, all **HANNA** equipment has been designed for maximum safety during handling and testing with a minimum amount of waste. Even a novice can safely run accurate COD tests in just 3 simple steps:

- 1 Fill the pre-dosed vial with the sample
- 2 Place the vial in the reactor and set the timer
- 3 Place the vial in the HI 83099 and read the results

## Three Certified Reagent Kits



COD levels vary depending on the application and the different measuring point throughout the process. Three ranges are available to meet all COD requirements. Each kit contains pre-dosed cuvettes sufficient for 25 test, Certificate of Analysis and instruction manual.



**HI 93754A-25**  
COD reagents kit (LR)

**HI 93754B-25**  
COD reagents kit (MR)

**HI 93754C-25**  
COD reagents kit (HR)

COD Test	Range	Method	Reagent Code
COD LR	0 to 150 mg/L (ppm)	Dichromate EPA* Dichromate Hg-free† Dichromate ISO**	HI 93754A-25 HI 93754D-25 HI 93754F-25
COD MR	0 to 1500 mg/L (ppm) 0 to 1000 mg/L (ppm)	Dichromate EPA* Dichromate Hg-free† Dichromate ISO**	HI 93754B-25 HI 93754E-25 HI 93754G-25
COD HR	0 to 15000 mg/L (ppm)	Dichromate	HI 93754C-25

### SPECIFICATIONS

### HI 839800

Temperature of Reaction	105°C or 150°C (221°F or 302°F)
Temperature Stability	±0.5°C
Temperature Range	-10°C to 160°C
Capacity	25 vials (dia 16 x 100 mm), 1 receptacle for a stainless steel reference thermometer
Accuracy	±2°C (@ 25°C/77°F)

### ORDERING INFORMATION

**HI 83099** is supplied with glass cuvettes (3), cell protective cap, batteries, 12 VDC adapter and instructions.

**HI 839800-01** (115 Vac) and **HI 839800-02** (230 Vac) are supplied with power cable and instructions.



### HI 740217

Safety Shield.

(Can be purchased separately)

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