



Uniphos COD Analyzer

**Uniphos
COD Analyzer**



**Uniphos
COD Digester**

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Chemical Oxygen demand is defined as the amount of oxygen (mg/l of sample) required for the oxidation of all the organic compounds present in the water sample. It is one of the quality parameter measured for industrial waste water. COD limits are set by competent authorities for various effluents permissible for accepting them in effluent treatment plants or releasing them to the environment. Among the various methods and instruments available, a non-dispersive absorption based instrument has been found to be the best for this. The Uniphos COD analyzer is based on the above principle.

SALIENT FEATURES:

- Rugged, portable design with no moving parts
- On board memory, stores up to 1000 test results along with time and date
- Computer and printer interface

BENEFITS

- More than ten times reduction in analysis cost.
- Ten times reduction of samples and chemicals used.
- Ten times reduction in hazardous waste production.
- Reduction in space and operator time.
- Total digestion time is 2 hours, but operator analysis time is less than 2 minutes.

APPLICATION AREAS

- Municipal water
- Industrial process fluids
- Drinking water
- Waste water and effluent water
- Ground and surface water

UNIPHOS COD ANALYZER

Uniphos COD Analyzer is a microprocessor-based instrument for the determination of COD in the range of 50-2000 mg/L in water sample. The analysis involves the measurement of absorbance of the digested sample using the COD Analyzer and relating it to the COD of the sample. The digestion of the sample water involves the

water sample being treated with Mercuric Sulphate to remove the interference of chloride ions and subsequently mixing it with an appropriate amount of oxidizer mixture viz. Potassium Dichromate, Silver Sulphate catalyst and Sulphuric Acid and digesting the mixture in a closed vial at 150° C for 2 hours.

SPECIFICATIONS

COD Analyzer	
Principle	Absorption method
Oxidiser & Complexing Agent	Potassium Dichromate, Mercury Sulphate in Acidic medium.
Measuring Range	50-2000mg/L
Resolution	1 mg/L
Accuracy	+/-10% of reading
Display	16x2 LCD
Reproducibility	+/-2%
Measuring Time	Less than 30sec./sample
Battery	7.4V Li-Ion Rechargeable
Dimensions	220mm(L) X 170mm(B) X 90mm (D).
Weight	0.750 kg
Storage	Can store up to 1000 test results with date & time
Interface	Serial interface to the computer or printer for data transfer
Data Transfer	Data can be downloaded to the printer or on the computer through RS-232 port

COD Digester	
Heater Block Dimensions	50mm(L) X 290mm(W) X 220mm(D)
Display	LED Based Digital Display
Power Consumption	250 W
Temperature Range	Room Temperature to 150° C
Temperature Accuracy	±1° C
Temperature Controller	PID
Tube Cavity	17mm(Diameter) x 40mm(Depth)
Number of Cavities	25 Cavities to Accommodate 25 Glass Tubes
Glass Tube Size	16mm(Outer diameter) x 75mm(Length)
Sample Size	3 ml
Timer	The timer initiates as soon as the temperature is achieved. When the set time period is over the heater gets switched off automatically and gives the alarm. Alarm for cycle end
Power Supply	230VAC, 50/60Hz
Weight	12.5 kg

THREE STEPS OF MEASUREMENT



1. Transfer to a clean vial
 - a) 1ml sample
 - b) 0.6 ml of reagent A
 - c) 1.4ml of reagent B and mix thoroughly



2. Place the vial in the Uniphos COD Digester maintained at 150° C. Heat for two hours and cool the sample to room temperature



3. Place the vial in the Uniphos COD Analyzer and make the measurement



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