



COMPLETE ENVIRONMENTAL SOLUTIONS



Air, Sound, Water, Soil Pollution Monitoring Instruments Manufacturing, Sales, Servicing & Calibration

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PRODUCT LIST

AIR POLLUTION MONITORING INSTRUMENTS

- RESPIRABLE DUST SAMPLER (PM10)
- FINE PARTICULATE SAMPLER (PM2.5)
- COMBO SAMPLER (PM10+PM2.5)
- STACK SAMPLER
- HANDY DUST SAMPLER
- PERSONAL SAMPLER
- BENZENE SAMPLER
- LOW VOLUME SAMPLER
- GASEOUS POLLUTANT SAMPLER
- THERMO ELECTRICALLY COOLED GASEOUS ATTACHMENT
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- SOUND LEVEL METER
- WEATHER MONITOR
- LUX METER • VIBRATION METER
- TOP LOADING CALIBRATOR
- FLOW CALIBRATOR
- TIME CALIBRATOR
- SOUND LEVEL CALIBRATOR

LAB INSTRUMENTS

- BIO SAFTY CABINET
- FUME HOOD
- BOD INCUBATOR
- COD DIGESTOR
- AUTO CLAVE
- BIOLOGICAL INCUBATOR
- HOT AIR OVEN • WATER BATH
- HUMIDITY CHAMBER
- HOT PLATE
- DISTILLATION UNIT

COD 6 HOLE DIGESTER



Complete Environmental Solutions is one of the leading science equipment manufacturers & exporter of science equipment's, science instruments, lab equipment's, lab instruments, testing equipment's, testing instruments, like Digital bio-safety cabinet, vertical & horizontal laminar air flow cooling & heating instruments like ultra-low temperature deep freezers, BOD incubators, hot air oven, muffle furnace, microscope, fume hood environmental test chamber, water distillation plant, SDI kit, ocean grapy meter, water testing kit, PH meter, soil samplers & all types of laboratory & science instruments. This laboratory & scientific instruments used for laboratory sterilization, clean room, microbiology, pathology, bio technology, pharmaceuticals, seed & soil testing, metallurgical, food processing, customized instruments.

CONSTRUCTION: -

COD Digester is the most accepted Thermo reactor for Determination of Chemical Oxygen Demand in Various Substances. Chemical Oxygen Demand (COD) is a Measure of the Capacity of Water to Consume Oxygen during the Decomposition of Organic Matter and the Oxidation of Inorganic Chemicals such as Ammonia and Nitrite. COD Measurements are commonly made on Samples of Waste Waters or of Natural Waters Contaminated by Domestic or Industrial Wastes. Chemical Oxygen Demand is measured as a Standardized Laboratory assay in which a closed Water Sample is incubated with a Strong Chemical Oxidant under Specific Conditions of Temperature and for a Particular Period of Time.

MODE OF HEATING: -

Our cod Digester is specially designed as per IS & ASTM standard suitable for 15- tubes or 24 tubes. COD digester is used for chemical oxygen demand method for monitoring waste water influent and industrial process water. Digester block made out of high-quality Aluminum or S.S the Cod Digester is provided with highly insulated between block & exterior which is

- HEATING MENTLE
- KJELDAL ASSEMBLY
- DEEP FRIZZER
- PH METER
- TDS METER
- CONDUCTIVITY METER
- SPECTROPHOMETR
- WEIGHING BALANCE
- MOISTURE ANALYZER
- DIGITAL ULTRASONIC CLEANER
- DO METER
- GRADIENT THERMAL CYCLEAR PCR
- ICE FLAKER
- ICE MAKER
- PROBE SONICATOR
- DIGITAL VISCOMETER
- DIGITAL PRESSURE INDICATOR
- LON SELECTIVE ELECTRODES
- POLARIMETERS
- VISCOMETERS
- PROBE SONICATOR-TOUCHSCREEN
- LON WITH PH METER-5 POINTS
- PH ELECTRODES
- MULTI PARAMETER / DO METER
- REFRACTO METERS
- GRADIENT THERMAL CYCLER
- ULTRASONIC CLEANERS
- CERAMIC HOTPLATE MAGNETIC STIRRER
- DIGITAL PIPETTES
- REFRIGERATED CIRCULATING BATH
- DIGITAL WATER BATH
- ANALOG MULTIMETER
- DIGITAL MULTIMETER
- BENCH TYPE TRUE RMS DIGITAL MULTIMETER
- AC CLAMP METER
- AC/DC CLAMP METER
- POWER CLAMP METER
- AC LEAKAGE CURRENT TESTER
- EARTH LEAKAGE
- INSULATION RESISTANCE TESTER
- PHASE ROTATION METER
- VOLTAGE DETECTOR
- DIGITAL CAPACITANCE METER
- DIGITAL LCR METER
- DIGITAL MILLIOHM METER
- LUX METER

made out of G.I powder coated or M.S powder coated finish. The Cod Digester is equipped with microprocessor based PID controller with dual display seven segments four-digit digital controller cum indicator with timer of 120 minute with alarm. The digester block is suitable for 38 mm diameter tubes and 600 mm height air condenser.

APPLICATIONS: -

- Chemical Oxygen Demand Digester Designed for digestion of COD test samples and
- multi-function dry bath heating.
- Precise temperature control from ambient +5 °C to 150 °C with ±1 °C accuracy.
- User's self-compensation functions for temperature to counter for difference between
- block temperature and sample temperature.
- Fitted with Microprocessor Based Digital Temperature
- Indicator cum Controller for auto control with respect to time and temperature and is
- also fitted with in-built buzzer timer for auto time control to indicate cycle end.
- Microprocessor Based Digital Temperature Indicator cum Controller having dual
- four-digit seven segment digital display for set value and process value.
- Recessed well/cavity accommodates aluminum or S.S insert block.
- Samples after being digested for 2 hours can be analyzed using calorimeter or c
- onventional titration method.

TEMPERATURE CONTROL / RANGE:

- Temperature Range: +5°C form ambient to 150 °C/ 250°C/ 450°C
- (As per model & application)
- Temperature Sensitivity: +/- 1° c or better.
- Resolution: 0.1° C

Optional: -

- PPI PID based programmable controller with original sensor Temperature
- Accuracy: < 0.5°C: -Rate: 5800/- net extra PLC based programming.
- Universal data logger.
- We are also manufacturing 6,9,12,18,21,24, Sample COD Digestion
- We are also manufacturing by GMP (Complete M.S.)

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