

# KjelTRON™



the essence of innovation

## KjelTRON Automatic Cod Digestion System

Tulin developed KjelTRON We introduced a series KDIGC COD Digester with a wide Product Range of Microprocessor based Automatic COD Digestion System in accordance with the official methods (AOAC, APHA, EPA, GLP, DIN and ISO).

KDIGC(COD): Digestion System is used for Reflux Chemistries, such as Chemical Oxy Demand(COD) available with wide Range

### Application :

Suitable for all Type of water sample with Reagent addition of K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>, H<sub>2</sub>SO<sub>4</sub> & Kjeldhal Digestion of Soils, plants, water, fertilizers, pesticides & Many more Compatible with AOAC, EPA, APHA approved procedures

### System Description :

- Model- KDIGC 20AC: KjelTRON Microprocessor Based Twenty Tube COD Digestion Block Air Condenser Open Reflux System with Graphical Digital timer & Temperature Display system with Indicator and alarm
- Reaction Vessel: Tube Size: 42Dia x 300mm, Tube Capacity: 250ml (20Nos)
- Air Condenser: Glass Air Condenser in the length of 600mm each & Reflux condensers with ground joint.
- Reaction Vessel Rack: Heat & Chemical Resistant Stainless steel Insert Rack with insulated Handles to Twenty hold Digestion tubes
- Cooling stand: Stainless steel Cooling Support stand to Hold Twenty Nos. of Reaction Vessel along with rack
- Heaters: Rapid & High heating Casted Aluminum Heaters for Even Heating
- Block: Digestion Block Made of Aluminum metal Block polished and Holes for easy Load
- Electrical Requirement: 220V ± 10% single phase Frequency: 50 ± 5% Hz
- Material External: Epoxy Powder coated Anti corrosive Mild steel.

### Superior Features

- Display: Bright LCD Display, Setting Time Per Ramp: 001- 99 Hrs. 59 Min.
- Live Graphical schematic process flow feature with help of Inbuilt software
- Temperature Range: 40 to 400°C, Temperature Accuracy: ± 1°C with Temperature Controller
- Direct USB Port for PC & Laptop connectivity
- Sample Size: 20 ml (As Per AOAC, APHA 1:2:3, EPA, GLP, DIN and ISO).
- PT 100 Sensor (RTD) with Microprocessor Programmable Controller
- The set time period is over then the heater Shutdown automatically
- Inlet & Outlet Draining Systems with Hose & provision hollow for easy addition of Reagent
- Cooling Water bath : Anti corrosive tank with Facility of water Circulation to cool the 20 samples
- Microprocessor Programmable Controller timer change & setup as per User Desirable with Auto alarm / Buzzer
- 10 Intelligent user storage Customizable program system more than 5 Desire Ramp/Sequence steps Time & Temperature
- Display status: Microprocessor Based LED Set Value (SV) and Process value (PV of temperature & time with Program No, Ramp No & timer)
- Auto Time Control unit: Microprocessor based Graphical Digital Display Temperature controller automatically start and reach the set value of temperature

### Safety Features

- ★ Auto alarm / Buzzer for User Attention
- ★ Auto Power off after completion of COD Digestion Cycle
- ★ Automatic safety features like Auto over temperature protection, Auto Sensor break protection, Auto Error Indication

Manufactured & Marketed By

## Tulin EQUIPMENTS

# 1A, Bharathi Street, Nethaji Avenue, Nerkundram, Chennai, Tamilnadu - 600107, India.  
Mob: 94458 56606, 94450 21925, 7845034356, Mob: 9677191916  
info@tulin.co.in, enquiries@tulin.co.in, tulin equipments@hotmail.com  
www.tulinequipments.com, www.tulin.co.in



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