

COD DIGESTION APPARATUS



TECHNICAL SPECIFICATION

1. Temperature Range:

- Ambient to 180°C or 200°C, adjustable with precision control.

2. Temperature Control:

- Digital PID controller with $\pm 1^\circ\text{C}$ accuracy for consistent heating.

3. Timer:

- Built-in digital timer with alarm for automatic shut-off after the digestion period (commonly 2 hours).

4. Heating Block:

- Aluminum alloy or stainless-steel block ensures uniform heat distribution across all sample tubes.

5. Sample Tube Size:

- Suitable for 40 mm dia \times 200 mm length or standard COD digestion tubes.

6. Construction:

- Outer body made of mild steel powder coated or stainless steel for chemical and corrosion resistance.

7. Power Supply:

- 230V AC, 50 Hz, single phase.

8. Power Consumption:

- Typically between 600 W to 1.5 kW depending on model size.

9. Safety Features:

- Over-temperature protection, thermal fuse

10. Display:

- Dual digital display showing temperature and time simultaneously.

11. Heating Efficiency:

- Rapid heating with energy-efficient elements ensuring even temperature distribution.

12. Uniform Heating:

- High-quality aluminum or stainless-steel block ensures uniform heating across all digestion tubes.
- Easy-to-load tube arrangement and clear display for temperature and time monitoring.

13. Compliance:

- Conforms to APHA/ASTM standard methods for COD determination.

OPTIONAL - ADD ONS

- **COD Reflux Condenser System** – For closed or open reflux method digestion.
- **COD Digestion Tubes** – Borosilicate glass tubes
- **Tube Stand** – For safe sample handling after digestion and reagent tubes
- **COD Analyzer with Digestor**

Model	Sample
PTE COD-301 A	6
PTE COD-302 B	9
PTE COD-301 C	12
PTE COD-301 D	15
PTE COD-301 E	24