

**CATALOGUE
OF
INCUBATOR
FIDELS/CO-4**



MODEL- FIDELS/CO-4



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LABORATORY INCUBATOR

FIDELS/CO-4 CO₂ incubators are enclosures designed to precisely control the environment needed to Grow biological or cell cultures.

DESIGN

1. CO₂ incubator system with volume 180 litres.
2. CO₂ range from 1 – 20% with control increment of 0.1%.
3. CO₂ gas accuracy $\pm 0.2^\circ\text{C}$ at 37°C.
4. CO₂ gas uniformity $\pm 0.3^\circ\text{C}$ at 37°C.
5. Tempererature range $\pm 4^\circ\text{C}$ to 50°C.
6. Tempererature accuracy $\pm 0.4^\circ\text{C}$ at 37°C.
7. Tempererature stability $\pm 0.1^\circ\text{C}$ at 37°C.
8. Tempererature control increment $\pm 0.1^\circ\text{C}$.
9. Tempererature uniformity $\pm 0.3^\circ\text{C}$ at 37°C.
10. Relative humidity should be $\geq 90\%$ at 37°C.
11. Interior chamber made of electro-polished stainless steel, and exterior chamber made of powder coated steel with minimum thikness and fan less.
12. The system have 3 perforated stsinless-steel shelves, which are fixed.
13. Incubator have touch screen display with advanced user interface and on-boad data log.
14. Maximume load of per shelve at least 7 kg.
15. The system have alarm to alert user and state of art Dual channel infra-red.
16. Incubator have feature a water level sensor and alarm to alert user when humidification water refilling is required.
17. Gas sensors inside the chamber.
18. The system come with CO₂ gas cylinder.
19. Incubator is air-jacketed and systematic sterilization capacity:180°C (12 hours or less) high temp. sterilization.
20. Access ports at the back of chamber for external probes.
21. In-built option for data monitoring and documentations modules.

POWER

- **work on 220/230 volts A.C. 50Hz.**
- **Temperature Range:** 5°C to 60°C
- **Temperature Accuracy:** $\pm 0.5^\circ\text{C}$
- **Temperature Uniformity:** $\pm 2^\circ\text{C}$
- **Temperature recovery:** in <6 min
- **% RH Recovery:** <10 min
- **% CO₂ Recovery with IR Sensor:** <6 min

