

Overview

CO₂ incubators are mainly used for cultivation of bio-cells, bacteria, tissue culture and other applications, with a heating and temperature control system; CO₂ concentration control system and gas circulating device.

The control circuit and gas circuit are installed behind the CO₂ incubator, the main switch is on the right side of the body and the large LCD display is on the front.

The CO₂ flows into the incubator through a high-performance microorganism filter (particles and bacteria bigger than 0.3µm will be filtered) to provide pure CO₂.

The outer incubator door uses a magnetic door strip seal, whilst the inner glass door and incubator body silicone uses rubber strip seal to ensure air-tightness.



Features

- 156x89mm LCD display
- Microorganism filter at inlet provides 99% filtration of bacteria and dust ($\phi < 0.3\mu\text{m}$) and supplies pure CO₂
- Door temperature controller prevents dewfall on the glass door of the incubator effectively
- Independent audible and visible temperature-limiting alarm system ensures experiments run safely
- Alarm function for temperature difference, CO₂ over concentration and concentration difference, door open time, UV working status
- Auto-controller of fan speed to prevent damage to the samples
- Hot air sterilizing circulation system and UV light system for periodic sterilization of chamber

Quality Lab Systems

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Specifications

Model	ThermaCell-CO ₂ 80	ThermaCell-CO ₂ 155
Power Supply	220V, 50HZ	
Input Power	500W	750W
Heating Method	Air-jacketed, PID control	
Ambient Temperature	RT +3 - 30°C	
Temperature Range	RT +5 - 30°C	
Temperature Stability	±1°C	
CO ₂ Range	0-20%	
CO ₂ Control Resolution	+/-0.1% (IR Sensor)	
CO ₂ Recovery	≤ 3 min (After door open 30 seconds, recovery to 5%)	
Temperature Recovery	≤ 8 min (After door open 30 seconds, recovery to 37°C)	
Humidifying Method	Natural evaporation >95%	
Chamber Volume	80L	155L
Interior Dimensions (W x D x H)	400 x 450 x 500mm	480 x 530 x 610mm
Overall Dimensions (W x D x H)	590 x 687 x 790mm	670 x 767 x 880mm
Weight	115kg	124kg
Shelves per Chamber (Normal)	2(pcs)	3(pcs)

Ordering Information

TINCO2-80	ThermaCell-CO2-80, 80 litres
TINCO2-155	ThermaCell-CO2-155, 155 litres

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