

AMBINOVA TECHNOLOGIES PVT. LTD.

ISO : 9001:2015

ISO : 13485:2016

CO2 INCUBATOR

DESCRIPTION

The successful cultivation of adherent mammalian cells necessitates a sterile environment characterized by precise temperature, humidity, and gas composition. CO2 incubators are employed to create optimal conditions for cell culture, ensuring appropriate temperature and moisture levels. The presence of CO2 plays a crucial role in regulating the pH of the culture media through its buffering capacity, maintaining it within the physiological range of approximately 7.4, contingent upon the buffers utilized. Essentially, a CO2 incubator simulates an environment conducive to cell growth that closely resembles that of the human body. Additionally, these incubators mitigate the risk of contamination by filtering the air both inside and around the incubator. In summary, CO2 incubators facilitate effective cell culture by preserving generation time and cellular morphology, thus guaranteeing the reproducibility of experimental results.



KEY FEATURES

- Humidity control water reservoir for the chamber.
- Air jacket: designed with a UV lamp for sterilization; Water jacket: fitted with a HEPA filter.
- The incubator features a USB port and an LCD touch screen, enabling it to store data in real time.
- A high-quality CO2 gas filter guarantees the purity of the internal gas.
- Advanced gas circuit valves contribute to a more stable CO2 concentration while reducing CO2 gas consumption.
- The microcomputer controller features an LCD that displays temperature, CO2 concentration, operational time, and timing.
- It is equipped with a high-quality infrared sensor that ensures precise measurement of CO2 concentration.
- The working chamber is designed with rounded angles, facilitating easy cleaning.

TECHNICAL SPECIFICATION

Model/ No	AMBI-CO2-50		AMBI-CO2-160	
Capacity	50L			160L
Heating	Air jacket		Air jacket	Water jacket
Temp. Range	RT +5~ 60°C			
Cntrl Type	Microcomputer controller			
Temp. Fluctuation	< ±0.2 (at 37 °C)			
Temp. Uniformity	< ±0.3 (at 37 °C)			
Time Setting	999h or continuous			
Alarm	Audible and visual alarm; Over-temperature alarm; CO2 Concentration alarm.			
Shelves	2 pcs / adjustable			
Material	External cold-rolled steel with painting; internal stainless steel			
Door	With inner door and external door			
CO ₂ Range	infrared sensor, range 0~20%			
CO ₂ Control Resolution	0.1%			
Humidification Type	Water tank for natural evaporation			
Sterilization Type	UV lamp for air jacket			
Ambient Temp. & Humidity	18~30, suggest 25±2 °C; relative humidity <80%			
Caster	footmaster caster			
Consumption	350W		650W	1000W
Power supply	AC110/220V0 V±10%, 50/60Hz			
Internal Size (W x D x H)	337 x 338 x 443		477 x 473 x 711	528 x 512 x 722
External Size (W x D x H)	500 x 527 x 821		700 x 666 x 1100	747 x 654 x 126
Packing	655 x 680 x 977		790 x 830 x 1255	780 x 880 x 142
Gross Weight(kg)	69		109	146

ABOUT COMPANY

Ambinova Technologies Pvt Ltd is dynamic and forward-thinking manufacturing company specializing in laboratory instruments designed for Life Science and Healthcare Laboratories. With a commitment to excellence, Ambinova has earned a reputation for producing high-quality, laboratory instruments that meet the evolving needs of scientific research, diagnostics, and analytical testing.

Mission:

Through innovative design, rigorous quality control, and a commitment to customer satisfaction, we strive to be the premier provider of reliable, accurate, and cutting-edge laboratory instruments. With a dedication to continuous improvement and technological advancement, we aim to enhance the efficiency, productivity, and success of scientific community.

Vision:

Our vision is to be one of the most trusted and value-adding companies Globally.

Products and Services:

Our extensive range of laboratory equipment includes Drybath, Incubators, Autoclaves, Laminar Air Flow, Shakers, and Laboratory Furniture. Each product is meticulously crafted using the qualified and tested materials and cutting-edge technology, ensuring optimal performance and reliability. Our talented team work collaboratively to drive progress, solve complex challenges, and deliver exceptional value to our clients.

CERTIFICATIONS



+91 8595173503
+91 9625922608



sales@ambinova.in



Plot at KH No.9/25/2, 13/5/1 Industrial Area Nangli Sakrawati,
Najafgarh, New Delhi- 110043.