

Air Jacketed CO₂ Incubator FM-CIA-A100



Description :

Air Jacketed CO₂ Incubator FM-CIA-A100 employs air-jacketed temperature control technology to ensure an optimal and stable growing environment for cell and tissue cultures. Built-in microprocessor controller technology with LED display and 50 L working chamber capacity. Enhanced safety features include infrared sensor for CO₂ concentration and UV lamp for sterilization, promotes cell growth through precise control of humidity, temperature, and CO₂ gas while minimizing the potential for contamination.

Specifications :

Capacity	50 L
Heating	Air jacket
Temperature range	RT +5 to 60°C
Control type	PID control
Temperature fluctuation	≤ ±0.2°C (at 37°C)
Temperature uniformity	≤ ±0.3°C (at 37°C)
Time setting	999 h or continuous
Alarm system	Over-temperature alarm; CO ₂ Concentration alarm; Temperature sensor error alarm; Water-shortage alarm.
Interior material	Stainless steel
Exterior material	Cold-rolled steel with painting
Door type	Double door
Insulation Material	Polystyrene film

CO ₂ control sensor	Infrared sensor
CO ₂ measuring range	0 to 20 %
CO ₂ concentration control accuracy	CO ₂ concentration control error 5% ± 0.1 %
Humidification type	Water tank for natural evaporation
Sterilization type	UV lamp
Shelves	2 pcs/adjustable
Caster type	Foot master caster
Interface	USB port
Power supply	220 V±10%□50/60 Hz
Maximum power consumption	350 W
Internal dimension (W×D×H)	368×387×408 mm
External dimension (W×D×H)	500×527×821 mm
Packaging dimension (W×D×H)	655×680×970 mm
Gross Weight	69 kg

Features :

- Microcomputer controlled system
- CO_2 concentration, and run-time
- PID controller to control several parameters
- UV Lamp as a sterilizing agent
- 2 perforated stainless steel shelves and 50 L inner chamber capacity
- Infrared (IR) sensor uses split-beam technology for CO_2 control in fluctuating temperature and humidity conditions
- Rapid humidity recovery using a large directly heated water reservoir
- CO_2 incubator pressure regulator
- Water level and over temperature alarm with audible and visual alert
- Tightly sealed inner door made of tempered safety glass
- Excellent quality gas circuit valve for stable CO_2 concentration and less consumption of CO_2
- Working chamber adopts round angle structure, easy to clean

Applications:

CO_2 incubators are designed to maintain adequate interior moisture to prevent the drying out of cultures. These air jacketed CO_2 incubators are widely used for a broad range of applications that includes: Tissue engineering, In vitro fertilization, Neuroscience, Cancer research, Stem cell research, Regenerative medicine, Mammalian cell research.



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