



Labocon Air Jacketed CO2 Incubator 100 series



Labocon Air Jacketed CO2 Incubator 100 series is ideal for the experiments involving cultivation of animal cells, sperm/ ovum, anaerobic cells, all types of microbe cells, hatching/ germinating and special tissues.

It employs natural air convection method and gentle breeze circulation to ensure temperature uniformity in the chamber. It sterilizes the internal part with the help of the UV Lamp which is provided.

FEATURES

- **UV Lamp for Sterilization**
UV Lamp used in the Sterilization ensures there is no contamination during the running of the experiments.
- **Water tank for Humidity**
The heater on the bottom side warms the water in tray and it makes humidification.
- **Insulation and Thickness**
High Density Polyurethane Foam Insulation with thickness of 100mm over entire cabinet
- **Infrared Sensor**
The sensor helps in the determination of accurate CO2 concentration regardless of temperature and humidity.
- **Round angles in the Working Chamber**
Rounded Corner allows easy cleaning of the chamber. Entire inner chamber is made of Stainless steel (SUS 304).
- **High quality HEPA filter**
The HEPA filter ensures that the air quality inside the chamber is always clean and optimum.
- **Gas Circuit Valves**
The valves present ensure that the CO2 concentration is stable and also there is less consumption of CO2 gas.
- **Microcomputer controller & LED Display**
It displays the Temperature, CO2 concentration, the running time.
- **Alarms**
The instrument comes with an audio visual alarm function for over temperature and change in the CO2 concentration.

SPECIFICATION TABLE

Specifications	LACI-101	LACI-102	LACI-103
Chamber Volume	50L	80L	160L
No. of Shelves	2 (Max.5)	2 (Max.6)	2 (Max. 9)
Temperature			
Range	Ambient +5°C to 60°C		
Accuracy	±0.3 °C		
Uniformity	≤ ±1 °C		
Fluctuation	≤ ±0.3 °C		
Increment	0.1 °C		
Control	PID Control		
CO2			
Range	0% to 20%		
Accuracy	5%±0.5°C		
Increment	0.1%		
Sensor	Infrared		
Control	PID Control		
Inlet Pressure range	<103.4kpa		
Door			
Outer door	External cold-rolled steel with painting		
Inner door	Glass door		
Insulation Material	Polystyrene film		
Operating panel	Buttons		
Display	LED Display		
Timer	999hrs or continuous		
Jacket Type	Air Jacket		
Chamber Material	Stainless Steel (304)		
Chamber Dimensions (w*d*h)	368*387*408 mm	398*446*498 mm	498*546*678 mm
Overall Dimensions (w*d*h)	500*527*810 mm	600*596*910 mm	700*666*1090 mm
Packing Dimensions (w*d*h)	650*680*990 mm	730*730*1090 mm	790*830*1270 mm
Power	220V 50Hz and 110V 60Hz (Optional)		
Power Consumption	295W	325W	375W
Weight	80 kg	93 kg	130 kg



Labocon Air Jacketed CO₂ Incubator High Heat Sterilization Range LACI- 400 Series

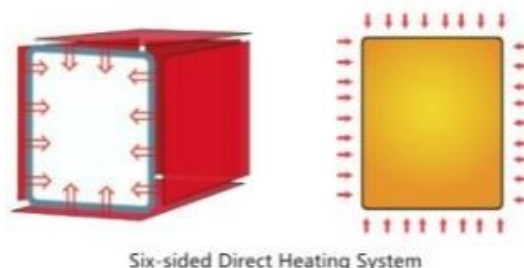
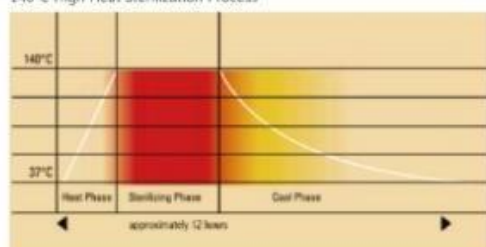


Labocon Air Jacketed CO₂ Incubator-High Heat Sterilization LACI- 400 Series is to maintain an optimal environment for cell growth, effective high temperature sterilization function, suitable for more important project research, it's high heat sterilization CO₂ incubator with HEPA filter. easy to operate.

Feature

- 304 frosted stainless steel arc angle integrated inner cavity, beautiful and easy to clean without any joint.
- Waterproof design and easy-to-clean interior with rounded corners.
- 4.3-inch LCD touch screen, intuitive control easy to operate.
- Historical data can be viewed in real time, and can be exported by the USB interface.
- HEPA air filtration continuously removes particulates for Class ISO 5 level quality conditions.
- HEPA filter and IR sensor are easily removed.
- Clean humidified pan to maintain culture humidity environment.
- Circulating airflow technology ensures high consistency of culture conditions in the chamber. (Optional: NO -Fan technology ensures very low level of cross contamination and low noise smooth operation)
- After stable operation, if the temperature fluctuation exceeds the set value plus or minus overtemperature alarm deviation, audible alarm activates
- Sensor detection for parameters of Time, Temperature, Humidity, CO₂ Gas Concentration and supply
- Audible alarm activates if outer door is opened over 1 minute.
- Internal six-sided direct heating system ensures temperature uniformity.
- UV Lamp (Optional: 4W/8W/10W/12WX1/2) used in the Sterilization ensures there is no contamination during the running of the experiments.
- 140°C high heat sterilization/Optional 180°C High heat sterilization.
- Access Port: 2 of 25 mm

140°C High Heat Sterilization Process



Application:

Labocon Air Jacket CO₂ Incubator-High Heat Sterilization LACI- 400 Series are widely used for research in life science, immunology, genetics, clinical medicine, agriculture science, pharmaceuticals, pharmaceutical industry, food industry, toxicology, basic biology and clinical medicine.

Specification

Model	LACI-401	LACI-402	LACI-403
Capacity	85L	185L	248L
Temperature range	Ambient +5°C to 60°C		
Control interface	4.3-inch LCD touch screen		
Temperature control mode	PID control mode		
Temperature display resolution	0.1°C		
Temperature Recovery	After 2 minute opening of door, Recover 99% of set value in 4-5 min		
Temperature uniformity	±0.3°C @37°C		
Temperature fluctuation & stability	±0.1°C @37°C		
Temperature accuracy	±0.1°C @37°C as PER European GMP & DIN 12880:2007-05		
Timing function	0-999.9hours		
Principle of CO2 sensor	NDIR -IR sensor detection technology with automated calibration and can with stand at temperature of more than 290°C		
CO2 control range and Uniformity	0-20% with ± 0.1%		
CO2 Accuracy and Uniformity	±0.1% 37°C		
CO2 display resolution	0.10%		
CO2 supply	0.05~0.1MPa is recommended WITH 0.1% Incremental		
CO2 Recovery	Less than 3 min from door opening to attain 5% CO2		
HEPA filtering	ISO 5 level, 5 minutes		
Sterilization	Programmable 140°C High heat sterilization/ Optional 180°C High heat sterilization for user defined time duration & complete HTD Cycle complete in From 0-14 Hrs.		
Maximum expansion	Up to 2 units can be stacked		
Ambient temperature	10°C~ 30°C		
Humidity	95% @ 37°C		
Power supply	115V~230V±10%, 50~60Hz		
Power of heating	900W		1000W
Internal size (WxDxH)	400x440x500mm	508x541x681mm	600x630x670mm
External size (WxDxH)	530x560x825mm	640x660x1000mm	660x800x1000mm
Weight	68 kgs	108kgs	116kgs

Optional accessories:

- 4/8-split inner doors/ Individual door for shelf
 - O₂ Supply
- Building Management and Control System (BMCS)

Configuration List

CO ₂ Incubator	1
HEPA Filter	1
Access Port Filter	1
Humidity Pan (SS/Cu Optional)	1
Shelf	3/4/5/6
Power Cord	1
Product Manual	1

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