LABOCON AIR JACKETED CO2 INCUBATOR LACI-300 SERIES





Labocon Air Jacketed CO2 Incubator 300 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.

FEATURES

1. 6 sides Direct Heating System

Electric Heating wire is covered on all sides of chamber which makes stable uniformity and provides fast heat-up & temperature recovery.

3 parts of heating section are controlled and calibrated individually by 3 temperature sensors.

2. Dry Wall and Air Jacket

Warm air from heating wire is preserved in space between chamber and insulation. It helps temperature recovered faster and minimize heat loss. Dry wall with insulation is not required to regular maintenance.

3. Dual Beam IR CO2 Sensor

Fast and precise detection for CO2 gas regardless of temperature and humidity.

4. Natural Humidification using Water Tray

The heater on the bottom side warms the water in tray and it makes humidification.

5. No Condensation

Heating by Front door heater and Frame heater prevent condensation in chamber and on glass door.

6. Microprocessor PID Control

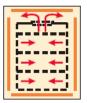
Intelligence control for CO2 density, Temperature, Alarm, Automatic Decontamination (optionally available).

7. HEPA Filtration of Gas supply inlets



ADDITIONAL FEATURES

- Natural Air and Moisture Convection Air and Moisture in chamber are distributed naturally by 6 side heating.
- Rounded Corner allows easy cleaning.
 Entire chamber is made of Stainless steel (SUS 304).
- 3. Buzzer to alarm low or high deviation of CO2, Temperature.
- Perforated Shelves are good for natural air flow and are made of Stainless steel which are resistant against rust and contamination.
- Heating is automatically cut-off by safety device when temperature control fails or there is excessive heating over set point.
- Access port is optionally available for additional devices used in the chamber.













SPECIFICATION TABLE

Specifications	LACI-301	LACI-302	LACI-303				
Chamber Volume	42 L	179 L	850 L				
No. of Shelves	2 (Max. 4 can be	3 (Max. 8 can be	3 (Max. 15 can				
	used)	used)	be used)				
Temperature							
Range	Ambient +5°C to 60°C						
Accuracy	±0.25°C at 37°C						
Increment	0.1°C						
Control	Microprocessor Digital PID						
Hot Air Decontamination	125°C		100°C				
(Optional)							
CO2							
Range	0% to 20%						
Accuracy	± 0.1% at 5% 37°C						
Increment	0.10%	100.10%	200.10%				
Sensor	IR CO2 Sensor						
Control	Microprocessor						
Inlet Pressure range	0.3 ~ 0.5 bar	0.6 ~ 0.7 bar	0.9 ~1. 0 bar				
Door							
Outer door	Silicon Packing Magnet Door						
Inner door	Tempered Glass Door						
Operating panel	Individual 2 Channel Touch Button						



Display	LED Display				
Jacket Type	Dry wall type (6 side heat)				
Chamber Material	Stainless Steel (304)				
Chamber Dimensions	320*350*370	473*528*710	698*799*1528		
(w*d*h)	mm	mm	mm		
Overall Dimensions	408*482*550	560*665*945	820*950*1840		
(w*d*h)	mm	mm	mm		
Power	220V 50Hz,	220V 50Hz,	220V 50Hz,		
	400W	600W	1.2kW		
Weight	35 kg	78 kg	266 kg		

OPTIONAL ACCESSORIES

1. Access Port

25 mm Access port is available at left side. (Upon ordering and additional charge)

2. UV Sterilization

4W UV is placed up of chamber ceiling and beside of circulation fan. The UV light is not reached to sample and sterilization is operated during culturing.

3. Cooling Control

Peltier is applicable in LACI-301 & 302. -5°C from room temperature but maximum lowest temperature is up to 20°C.

4. Copper Chamber

Customized copper chamber with oxidizing copper/ copper-plated chamber for enhanced contamination protection.

5. Multi Gas control (O2 Control)

Multi gas supply (N2 & O2) is available for all CO2 Incubators. But, LACI-301 is recommendable due to High Gas consumption when performing Hypoxia or Hyperoxia.

6. Hot Air Decontamination

Maximum 125°C dry hot air in LACI-301 & LACI-302



Maximum 100°C dry hot air in LACI-303

7. Split Inner Door

Lower gas consumption, Lower heat loss, Fast recovery, Easy classification for various samples.

5 Split doors available for LACI-3016 Split doors available for LACI-302

8. Gas Regulator & CO2 Analyser (For LACI-301, LACI-302 & LACI-303)

9. Shelves

(For LACI-301, LACI-302 & LACI-303)

10. Roller Base

(LACI-301 & LACI-302)

11. Stacking Kit

(LACI-301 & LACI-302)



SPECIFICATIONS FOR OPTIONAL ACCESSORIES

Specifications	LACI-301	LACI-302		LACI-303			
UV Decontamination							
Length	253.7 nm						
Power	4GW/1 each						
Dry Hot Air Decontamination							
Temperature Range	125°C, Time 8 hours 100°C		C, Time 8 hours				
	programme	d	programmed				
	decontaminatio	n, 3-4	decontamination, 3-4				
	hours recovery t	ime to	hours recovery time to				
	re-set at 37°C a	nd 5%	re-set a	at 37°C and 5%			
Temperature Control	Safety door lock during Decontamination						
Oxygen Control							
Range	0.5~19% or 20~99%						
Sensor	Zirconium Dioxide Oxygen Sensor						



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