

CO₂ Incubator

Carbon dioxide incubator is a device that simulates the growth environment in vivo and provides stable temperature, CO₂ level and relative humidity for cells and tissues. It is widely used in the fields of immunology, oncology, genetics and bioengineering, and is an indispensable tool for cytodynamics research, antigen production and drug screening.

Features

- ◆ High efficiency filter.
- ◆ New high temperature dry heat sterilization or damp heat sterilization technology, reduce the greatest degree of pollution while culturing.
- ◆ The high precision microcomputer control system ensures the high accuracy and uniformity of temperature and CO₂ concentration in the chamber.



Specifications

Model		INO-CI-150D	INO-CI-191D	INO-CI-150DT	INO-CI-191DT	INO-CI-191DTRH
		INO-CI-150M	INO-CI-191M	INO-CI-150MT	INO-CI-191MT	INO-CI-191MTRH
Product Name		CO2 Incubator				
	INO-CI-D:	150L, Dry Heat Sterilization	191L, Dry Heat Sterilization	150L, Dry Heat Sterilization, Touch Screen	191L, Dry Heat Sterilization, Touch Screen	191L, Dry Heat Sterilization, Touch Screen, RH Control
Differences	INO-CI-M:	150L, Moist Heat Sterilization	191L, Moist Heat Sterilization	150L, Moist Heat Sterilization, Touch Screen	191L, Moist Heat Sterilization, Touch Screen	191L, Moist Heat Sterilization, Touch Screen, RH Control
Capacity		150L	191L	150L	191L	
Temp. Range		Ambient+5°C~60°C				
Temp. Accuracy		0.1°C				
Temp. Uniformity		±0.3°C(@37°C)				
CO2 Sensor		IR				
CO2 Control Range		0-20%				
CO2 Control Accuracy		0.10%				
Recover Time after Open Door on Temp.		≤6min(@37°C)				
Recover Time after Open Door 30s on CO2		≤6min (@5%)				
Humidity Type		Evapor Naturally				RH Control
Max. Humidity		90%(@37°C)				95%(@37°C)
RH Control Range		NA				Ambient Humidity + 10%~95%
RH Set Accuracy		NA		1%		
RH Control Accuracy		NA				1%
RH Uniformity		NA		±2%		
Principle of RH Sensor		NA		Capacitance		
Disinfection	CI:	140°C Dry Heat Sterilization				
	CIB:	90°C Moist Heat Sterilization				
Door Open Direction		Rightward				
Display		NA		7" Color Capacitance Touch Screen		
Touch Screen Type		NA		Capacitance		
Auto-lock		NA		Yes		
Auto-close Screen		NA		Yes		
Protect Set Parameters		NA		Passwords Protect		
Data Display on Interface		NA		In 7 Days		
Data Curve Display		NA		Temp. Curve, CO2 Curve, RH Curve, Speed Curve (with CO2 Orbital		
Max. Numberof Shelves		12	13	12	13	
Standard Number of Shelves		3	4	3	4	
Insulation		Dry-Wai l				
USB Export Data		NA		Yes		
Operating Data Storage Cycle		NA		More than 912 days		
Operating Data Storage Interval		NA		1 min		
Data Storage Content		NA		Time, Temp, Speed (with CO2 Orbital Shaker), RH, Machine Status		
Auto-run after Power Recovery		Yes				
Noise Level		≤53dB				
Interface Languages		NA		Chinese or English		
Volume of Humidity Pan		3L				
Power		≤1300W				
Power Supply		AC 220V±22V, 50Hz/60Hz				
CO2 Orbital Shaker		CO-06UW Series Optional				
Mobile Monitorand Control by WiFi		NA		Optional		
PC Monitor and Control by RS485		NA		Optional		
Net Weight		97kg	125kg	97kg	129kg	
Outside Dimensions (WxDxH)		670x705x860mm	670x705x101	670x705x860mm	670x705x1010mm	
Chamber Dimensions (WxDxH)		540x510x555mm	540x510x705mm	540x510x555mm	540x510x705mm	
Temp. Alarm		Adjustable				
CO2 Alarm		Adjustable				
HEPA		NA		Yes		

Air-jacketed CO₂ Incubator

Innova CellRoller Incubator is designed with convenient space saving features for cell cultures using a roller culture apparatus. It is an economical alternative to a warm room for small production. Its programmable PID temperature control feature and double wall insulation provide precise, uniform and stable temperature distribution. The product holds full size roller cultures apparatus unit. Its mirror-graded stainless internal wall makes it easy to clean.

Based on INO-ACI-570 and INO-ACI-888 Roll-In Incubators, INO-ACI-888 and INO-ACIC-888 models are designed with feature of automatic CO₂ concentration control for more applications. The CO₂ concentration is microprocessor controlled with PID program. The unit comes with pressure regulator and filter.

Features

- ◆ Programmable PID temperature control.
- ◆ LED digital display.
- ◆ Independent over temperature protection.
- ◆ Double walled window door.
- ◆ Alarm, automatic power off.
- ◆ Concise and practical design with delicate appearance.



Specifications

Model	INO-ACI-570	INO-ACI-888	INO-ACIC-570	INO-ACIC-888
Feature	570L	888L	570L, with CO ₂	888L, with CO ₂
Temp. Display	LED			
Temp. Range	Ambient Temperature+5°C~60°C (Environmental Temp.: 5°C~40 ^D C)			
Temp. Accuracy	0.1°C			
Temp. Uniformity	±0.5°C (Environment Temp.25°C;SetT:37°C, No Load)			
Temp. Fluctuation	±0.5°C (Environment Temp.25°C;SetT: 37°C, No Load)			
CO ₂ Concentration Indicator	NA		Digital display	
CO ₂ Control Range	NA		0-20%	
CO ₂ Control Accuracy	NA		0.10%	
Recover Time after Open Door 30s on CO ₂	NA		<7min	
Recover Time after Open Door onTemp.	NA		<10min	
CO ₂ Sensor	NA		IR	
Auto-run after Power Recovery	Yes			
Power Supply	AC220V±22V, 50/60HZ			
Power	1250W			
Interior Dimensions(WxDxH)	745x690x1115mm	870x690x1480mm	745x690x1115mm	870x690x1480mm
Outside Dimensions(WxDxH)	845x885x1349mm	970x885x1716mm	845x885x1349mm	970x885x1716mm
Interior Wall	Mirror Grade Stainless Steel			
Door	Double Glass Window			
Alarm Function	Over-temperature, Temperature Sensor Malfunction, CO ₂ Concentration			
Weight	175kg	195kg	175kg	195kg

Roller Culture Apparatus for Monolayer and Suspension Cell Cultures

Innova CellRoller is designed for the production of monolayer and suspension cell cultures. All Innova CellRoller units have digital control systems and stable mechanical structure. A full range of speed settings and rotation modes come as standard features. These features provide consistent optimal media distribution, gas exchange and maximum surface area for cell growth. Yocell CellRoller systems are the ideal choice for both research and industrial needs.

Features

- ◆ LED speed display.
- ◆ Heavy duty brushless DC motor.
- ◆ Oil-free bearings ensure safe environment.
- ◆ Special rubber roll guarantees stable bottle rotation speed.
- ◆ Programmable rotation mode;
- ◆ Fully functional within full cell culture temperature range.
- ◆ Incubators are available for roller culture.
- ◆ Customized order is available.



Specifications

Cell Culture Method	Monolayer and Suspension Cell Cultures				
Model	INO-RCAS-45	INO-RCAS-30	INO-RCAA-45	INO-RCAA-30	INO-RCAA-16
Bottle Rotation Speed	Bottle Rotation Speed: 1~990r/h (φ110mm Bottle)				
Rotation Mode	Clockwise/Clunter Clockwise Alternating Rotation(10° -180°)				
Acceptable Bottle Size	Acceptable Bottle Size: φ108mm~φ121mm, L≤495mm Standard Bottle:φ110mm, L=490mm(3000ml)				
Bottle Diameter Setting	φ108mm~φ121mm (3L bottle)				
Bottle Positions per Deck	5	5	5	5	4
Bottle Positions	45	30	45	30	16
Material	Stainless Steel		Aluminum		
Digital Control Display	Speed / Angle / Time				
Auto-run after Power Recovery	Yes				
Fuse	4A250V				
Communication	RS 485				
Optional Accessory	RollerMate Sofeware				
Outside Dimensions(WxDxH)	770x594x1850 mm	770x594x1304 mm	797x598x185 0mm	797x598x1304 mm	672x598x936 mm
Max.Load(L)	135	90	135	90	48
Environmental Temp.	5℃~70℃				
Relative Humidity	<90%				
Power	70W				
Power Supply	AC220V±22V, 50Hz+1Hz				
Weight	90kg	75kg	90kg	75kg	70kg

Bench Top Roller Culture Apparatus

This series of products is designed for small scaled cell cultures. These units can operate in regular CO₂ incubators.

Specifications

Cell Culture Method	Monolayer	Suspension
Model	INO-BTRCA-6	INO-BTRCA-6L
Bottle Rotation Speed	3~60r/h (φ	1~15r/h (φ110mm
Rotation Mode	Clockwise/Clunter	ClockwiseAlternatin
Acceptable Bottle Size	φ100mm~φ113mm,L<285mm Standard Bottle: φ 110mm,L=285mm (1500ml)	
Bottle Positions per Deck	3	
Bottle Positions	6	
Material	Aluminum	
Digital Control Display	Speed / Angle/Time	
Auto-run after Power	Yes	
Fuse	4A250V	
Communication	RS 485	
Outside Dimensions (WxDxH)	450x360x431.5mm	
Max.Load(L)	9	
Environmental Temp.	5°C~70°C	
Relative Humidity	<90%	
Maximum Power	70W	
Power Supply	AC220V±22V, 50Hz±1Hz	
Weight	22kg	



Three Gas Incubator

Innova three gas incubator contains temperature control, CO₂ concentration control, while using nitrogen to reduce the concentration of oxygen in the box, suitable for different parts of human or animal cell culture.



Specifications

Model	INO-TGI-191D	INO-TGI-191M
Main distinguishing feature	Dry heat sterilization	Moist heat sterilization
Effective volume	191L	
Temperature control range	Room temperature +5°C~60°C	
Temperature control setting accuracy	0.1°C	
Temperature uniformity	±0.3°C(@37°C)	
CO ₂ sensor	IR(Infrared)	
CO ₂ concentration control range	0~20%	
CO ₂ concentration setting accuracy	0.10%	
O ₂ sensor	Fluorescence sensor	
O ₂ concentration control range	1~21%	
O ₂ concentration setting accuracy	0.10%	
Intake pressure	0.08~0.1MPa	
30s Temperature recovery time after opening the door	≤6min(@37°C)	
Open 30s CO ₂ concentration recovery time	≤7min(@5%)	
Open the door 30s O ₂ concentration recovery time	≤13min(@5%)	
Humidification type	Natural humidification	
Maximum humidity	90%(@37°C)	
Humidity display accuracy	1%	
Sterilize	Dry heat sterilization, 140 °C	Moist heat sterilization, 90 °C
Sterilization time	Almost 12 h	Almost 23h
Opening mode	Right-hand drive	
Display mode	7 "color touch screen	
Touch screen type	capacitive	
Automatic lock screen	Yes	
Automatically closes the screen	Yes	
Curve display type	Temperature curve, CO ₂ concentration curve, O ₂ concentration curve, humidity curve, velocity curve (with CO ₂ level shaker)	
Number of partitions that can be placed	13	
Standard number of partitions	4	
Insulation form	Air jacket	
Export data from USB flash drive	Yes	
Operation data storage cycle	More than 912 days	
Operation data storage interval	1 min	
Type of data storage	Running time, temperature parameters, speed parameters (with CO ₂ level shaker), humidity parameters, concentration parameters, machine status	
Noise level	≤53dB	
Interface language	Chinese and English display can be switched	
Internal humidifying disk capacity	3L	
Power	≤1300w	
Power source	AC 220V±22v.50Hz/60Hz	
Control components for centralized control of CO ₂ resistant shaker (optional)	assorting	
CO ₂ resistant shaker (optional)	assorting	
WiFi mobile phone monitoring (optional)	assorting	
Computer monitoring (optional)	assorting	
Net weight	125kg	
Overall dimensions (WxDxH)	670x705×1010mm	
Cavity size (WxDxH)	540x510×705mm	
Ambient temperature	5 °C to 40 °C	
Ambient humidity	≤80%RH	
Temperature alarm	Can set	
Concentration alarm	Can set	
HEPA service life countdown	Yes	