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CO2 INCUBATOR WATER JACKETED

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Water jacketed CO2 incubators are ideal for cell culture applications. These are designed to provide uniform temperatures and highly stable CO2 environments that are necesssary to prevent shocks to cells. Precisely controlled, accurate, pure environment throughout the culturing process is maintained. High precise gas sensor is applied with automatic start function. These incubators are an ideal solution for labs involved with potential power disruption or significant ambient temperature fluctuations affecting the integrity of their cultures.
Used in Tissue Engineering, Vitro fertilization, Cell Culturing, Tissue culturing, Mammalian cell research, Oncology studies..
Also known as Laboratory CO2 Incubator Water Jacketed.

INCA2-185TCD WATER JACKETED CO2 INCUBATOR (TCD)

Microprocessor temperature and CO2 controller

Water reservior volume: 3L

Alarms: Power interruption, High/Low temperature, CO2 deviation, low RH programmable alarm, Door ajar, Independent over heat protection

RS232 interface

Type 304 Stainless steel shelves

SPECIFICATIONS

Model	INCA2-185TCD
Capacity	185 L
Water Jacket Volume	43.5 L
Temperature Range	5°C above ambient temperature to 55°C
Temperature Stability	±0.1°C
Temperature Uniformity	±0.2°C
Temperature Sensors	PT1000
CO2 Range	0-20%
CO2 Stability	±0.1%
CO2 Sensor	Thermal conductivity / IR
CO2 Inlet Pressure	0.1 Mpa
Interior	Type 304, mirror finish, stainless steel
Exterior	Cold-rolled steel, powder coated
Internal Dimension	544Wx504Dx681H mm
Exterior Dimension	655Wx656Dx1030H mm
Shelves	3 standard, 11 maximum
Weight	110 kg
Power	430 W
Power Supply	220V/50Hz (standard), 110V/60Hz (Optional)

INC071 CO2 INCUBATOR WATER JACKETED

Replace traditional button operation to touch screen interface

It can display on time performance curve. You can check the temp., humidity and CO2 concentration three group curves changes at the same time. And abnormal alarm and door open or close message

PT100 temp. sensor keeps inside chamber temperature accurate. It can adjust the heating power according to the temp. differences between actual temp. in the chamber and set temp. to make sure temp. in the chamber is accurate

Water jacket heating method to ensure working chamber temperature is uniform, when it is power off, the chamber can maintain the temp. for a long time.

All data can be stored through RS485 port, if any failures, user can read the diagnostic message and data from computer at any time

The ultraviolet lamp can sterilize the chamber regularly. It kills chamber recycle air bacteria and float bacteria from water tray or slop water in the bottom, effectively prevent pollution during cell culture period

CO2 access port equips micro biological HEPA filter, it can filters diameter ≥0.3um Particles like CO2 gas bacteria and dust, the efficient reaches to 99.99%

Cycle fan speed can be adjusted automatically. When chamber temp. is stable, the fan speed will be lower down, the speed will be adjusted to a suitable speed that the cell can growth

Cycle fan avoids the fast fan speed that evaporating the samples

CO2 inlet control system has pressure protection function, it prevents over pressure or low pressure to the pipes

Chamber sensor failure alarm

Door temp. sensor failure alarm

CO2 condensation too high or too low alarm

Independent temp. limiter alarm

Door open too long alarm

Disinfection and sterilization status reminder

SPECIFICATIONS

Model	INC071-170	INC071-240
Capacity	170 L	240 L
Electrical requirement	AC 220 V / 50 Hz	
Input Power	700 W	100 W
Heating power	Water jacket	
Temp. control range	RT+5 - 50°C	
Work environment temp	+5 - 30°C	
Temp. accuracy	±0.1°C	
CO2 control range	0 - 20 %	
CO2 control accuracy	±0.1% (IR sensor)	
CO2 restore time	(Door open 30s, recovery to 5%) ≤ 3min	
Temp. restore time	(Door open 30s, recovery to 37°C) ≤ 8min	
Related humidity	Nature vaporate > 95%(Can equip with related humidity digital display)	
Chamber size	530Wx460Dx720H mm	600Wx520Dx780H mm
Overall size	684Wx700Dx960H mm	754Wx760Dx1020H mm
Standard shelves quantity	3 pcs	
Sterilization	UV sterilization+HEPA sterilization	

INC087 CO2 INCUBATOR WATER JACKETED

Touch screen controller, 72-hour machine operation record query function to help user tracking abnormal conditions and trace historical operation information

Faster CO2 concentration Restoration Speed.

Infrared sensor can keep CO2 concentration stability and uniformity when door open frequently

Polished stainless-steel chamber, and the space between the shelves in the chamber is adjustable

Microorganism filter at inlet provides 99.99% filtration of bacteria and dust (Φ<0.3μm) and supplies pure CO2 into the incubator

Door temperature controller prevents dewfall on glass door of incubator effectively

Independent audible and visible temperature-limiting alarm system ensures experiments run safely

Alarm function for temperature difference, CO2 over concentration and concentration difference, door open time, UV working status

Auto-controller of fan speed to prevent damage to the samples

SPECIFICATIONS

Model	INC087-060	INC087-170	INC087-240
Capacity	60 L	170 L	240 L
Electrical Requirement	220 V 50 Hz		
Screen	7" Touch screen		
Power Consumption	500 W	700 W	1000 W
Temperature range	RT+5 - 50°C		
Ambient Temperature	+5 - 30°C		
Temperature Stability	±0.1°C		
CO2 Range	0 - 20% V/V		
CO2 Control Resolution	±0.1%(IR sensor)		
CO2 Recovery	(Door open 30s,recovery to 5%) ≤ 3min		
Temperature Recovery	(Door open 30s,recovery to 37°C) ≤ 8min		
Humidity Method	Natural vaporization ≥ 90%		
Interior Dimension	380Wx290Dx550H mm	530Wx460Dx720H mm	600Wx520Dx780H mm
Exterior Dimension	534Wx530Dx790H mm	684Wx700Dx960H mm	754Wx760Dx1020H mm
shelves	2 pcs	3 pcs	
Sterilization method	UV Sterilizer		

INC087-060

INC087-170

INC087-240

INC089 CO2 INCUBATOR WATER JACKETED

Faster CO2 concentration Restoration Speed

Infrared sensor can keep CO2 concentration stability and uniformity when door open frequently

Polished stainless-steel chamber, and the space between the shelves in the chamber is adjustable

Microorganism filter at inlet provides 99.99% filtration of bacteria and dust (Φ<0.3μm) and supplies pure CO2 into the incubator

Door temperature controller prevents dewfall on glass door of incubator effectively

Independent audible and visible temperature-limiting alarm system ensures experiments run safely

Alarm function for temperature difference, CO2 over concentration and concentration difference, door open time, UV working status

Auto-controller of fan speed to prevent damage to the samples

UV light system for periodic sterilization of chamber

PID controller with LCD screen ensures precise and reliable control

Two-layer stacking available

SPECIFICATIONS

Model	INC089-026	INC089-080	INC089-150
Capacity	26 L	80 L	150 L
Electrical Requirement	220 V 50 Hz		
Power Consumption	250 W	680 W	950 W
Temperature Range	RT+5 - 50°C		
Ambient Temperature	+5 - 30°C		
Temperature Stability	±0.2°C		
CO2 Range	0 - 20% V/V		
CO2 Control Resolution	±0.1%(IR sensor)		
CO2 Recovery	(Door open 30s,recovery to 5%) ≤ 3min		
Temperature Recovery	(Door open 30s,recovery to 37°C) ≤ 8min		
Humidity Method	Natural vaporization ≥ 90%		
Interior Dimension	290Wx290Dx310H mm	400Wx400Dx500H mm	500Wx500Dx650H mm
Exterior Dimension	440Wx410Dx544H mm	550Wx520Dx764H mm	650Wx615Dx914H mm
Shelves	2 pcs		3 pcs
Sterilization method	UV Sterilizer		

INC089-026

INC089-080

INC089-150

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