

**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 necessary 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 Cell Culturing, Tissue culturing, Tissue Engineering, Vitro fertilization, Mammalian cell research, Oncology studies..

Also known as Laboratory CO2 Incubator Water Jacketed, Water Jacketed CO2 Incubator.

IO21 SERIES WATER JACKETED CO2 INCUBATOR



IO211, IO212

FEATURES

	IO211	IO212
High precise gas sensor is applied with automatic start function	•	•
HEPA filter, 0.3um, Efficiency:99.998%	•	•
RS232 interface	•	•
Internal glass door	•	•
Advanced fuzzy logistic PID control and menu operating interface	•	•
Full arc internal structure is treated with electrolytic polishing	•	•
Pressure compensation hole	•	•
Water reservoir volume: 3L	•	•
Alarms: Intelligent alarm, temperature deviation alarm and CO2 density deviation alarm functions etc.	•	•
Over temperature protection system	•	•

SPECIFICATIONS

Model	IO211	IO212
Capacity	185 L	
Temperature Range	RT +5~55°C	
Temperature Accuracy	±0.1°C	
Temperature Control Alarm	≥±0.1°C(adjustable)	-
CO2 Range	0-20%	
CO2 Accuracy	5%±0.1%	
CO2 Sensor	TCD	IR
CO2 Alarm	≥±0.1% (adjustable)	
CO2 Recovery Time	About 1%/min	
CO2 Filter Efficiency	99.998%	
Relative Humidity	95±3%	
Jacket Type	Water Jacketed	
Temperature Sensors	PT1000	
Internal Dimension (WxDxH)	540x505x680 mm	
Overall Dimension (WxDxH)	660x630x1105 mm	
Shelves/Trays	4	
Power Supply	220 V 50 Hz/60 Hz	

IO22 SERIES CO2 INCUBATOR WATER JACKETED



IO221, IO222

FEATURES

	IO221	IO222
Microprocessor temperature and CO2 controller	•	•
Water reservoir 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	IO221	IO222
Name	Water Jacketed CO2 Incubator (IR)	Water Jacketed CO2 Incubator (TCD)
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	
CO2 Range	0-20%	
CO2 Stability	±0.1%	
CO2 Sensor	IR	TCD
CO2 Inlet Pressure	0.1 Mpa	
Filter	0.3 um, Efficiency:99.998% (for CO2)	
Relative Humidity	≥ 95%	
Jacket Type	Water Jacketed	
Inner Door	one inner door standard	
Interior	Type 304, mirror finish, stainless steel	
Exterior	Cold-rolled steel, powder coated	
Temperature Sensors	PT1000	
Internal Dimention (WxDxH)	544x504x681 mm	
Overall Dimension (WxDxH)	655x656x1030 mm	
Shelves/Trays	3 standard, 11 maximum	
Weight	110 kg	
Power	430 W	
Power Supply	220 V/50 Hz (standard), 110 V/60 Hz (Optional)	

ACCESSORIES

Accessory Code	Name	Units
IX1007	Standard shelf	3 Sets
IX1008	Electric siphon pump	1 Set
IX1032	Water tray	1 Set

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Dimension
IX1011	Small CO2 inlet filter		
IX1015	CO2 steel cylinder auto-switch device		
IX1016	CO2 regulator		
IX1017	4 in 1 CO2 steel cylinder auto-switch device		
IX1018	Air connector		
IX1033	Shelf	Including :shelfx1, shelf supportx2	

IX1034	Plastic filler		
IX1035	Stainless steel plate		1/2x2.5"
IX1036	HEPA filter		
IX1037	Floor stand for 1 incubator	High 600 mm with castor	
IX1038	Floor stand for 2 stacked incubators	High 200 mm without castor	

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