

PROGRAMMABLE CARBON DI-OXIDE INCUBATOR

Feed back controlled

Introduction & Operating principle : MCINC series of CO₂ incubators grow and maintain microbiological cultures or cell cultures by maintaining optimal temperature, humidity, carbon dioxide (CO₂) and oxygen content of the atmosphere inside. Carbon/other gas dioxide p.p.m. are maintained by injecting gas in controlled manner using mass flow controller apart from humidity and temperature of inside chamber to ensure optimal growth of cell. These finds application in medicine, biology, pharmaceutical, infection control, Cosmetics & Synthetics, genetic engineering, Paper and Environments application, pipe line cleaning, Metal Finishing and Corrosion Control, petrochemical, Polymer manufacturing, Medicines, biotechnology, medicine, Process control and Chemical Engineering, Semiconductors/ Ceramics application.

Features: 1 Horizontal and open type, easy operation; 2. Changeable airflow control and low noise system, 3. display for flow rate/temperature and gas sensor. 4. Clean Carbon di-oxide incubator case is electrostatic powder coated plate that is shining and neat; SS304 is used as working table. 4.Material: Cold rolled steel plate with powder coated or stainless steel (SS201 or SS304).



MCINC-020020



MCINC-03020



MCINC-010020

Electrical and mechanical specifications of Carbon di-oxide incubator

20.0< Pr<200.0 litres

Model:	MCINC-03020	MCINC-01020	MCINC-03020	MCINC-010020	MCINC-20020
External size/internal size	8.0/(option) 8x8x8"	16.0/(option) 12x12x8"	32.0/(option) 18x18x12"	50.0/(option) 24x24x16"	200.0/(option) 36x36x24"
Operating volt/power(volt/watts)	220/100	220/500	220/750	220/2000	220/2000
Temperature cont range °C/ Air flow rate(m3/min)	-50 to + 100 300 cmph	50 to + 100 800 cmph	-50 to + 100 1200	-50 to + 100 1400cmph	-50 to + 100 1600 cmph
CO ₂ . cont range-p.p.m.	10-1000	10-1000	50-5000	100-100,00	100-100,00
Humidity control range	0-100%	0-100%	0-100%	0-100%	0-100%
Control scheme	Feedforward/ cascade	Feedforward/ cascade	Feedforward/ cascade	Feedforward/ca scade	Feedforward/ cascade
Ultraviolet lamps:	40/80 watts	40/80 watts	40/80 watts	40/80 watts	40/80 watts

Electrical and mechanical specifications of Carbon di-oxide incubator:

Operating power supply :220 volts/50HZ or 110 volts D.C.

Power: as in data sheet

Flow rate : as above

Temperaturehumidity control range : upto 100 ° C.100%

Display accuracy : temperature/flow rate/humidity

Permissible humidity : 10-90%

Permissible ambient temperature : 0-100°C

Ultra-violet lamp power: 40/80 watts(optional)

Protection : overload/short circuit.

Power efficiency : 95%

Cooling : air cooled

topology

Control : feed back/feed forward power control with temperature profile control

as preset / with 0-12 volts D.C. signal output. Automatic temperature

control according to preset profile of temperature w.r.t. time with high degree of

repeatability and accuracy. Digital display for temperature, air mass flow rate, humidity. Facility to interface with PC.



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