BioLAB

PRODUCT CATALOG

CO2 INCUBATOR AIR JACKETED BFN1G2

CE ISO9001 CERTIFIED

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CO2 INCUBATOR

CO2 incubators are widely used in scientific research to grow and maintain cell cultures. A Heal Force CO2 incubator provides you with unsurpassed natural simulation to ensure optimum growth conditions for your culture at all time. That's why they become the first choice of researchers in fields of application include tissue engineering, in vitro fertilization, neuroscience, cancer research and other mammalian cell research.

Safe for cultivation Cancer research

Cell cultivation in particular is a highly sensitive process in which bacteria, viruses, fungal spores and mycoplasmas can destroy valuable cultures or distort test results, causing more work. Heal Force solves this problem using a unique design and effective method to ensure sterile conditions.

Easy-to-clean design:
The cleaning process is significantly simplified by Heal Force's unique, seamless, deep-drawn interior chamber, which reduces any areas where contamination could accumulate. Heal Force incubators offer the best usable-space-to-volume ratio due to the total absence of any additional fittings in the interior chamber.
Coved comers
Inlet filter for CO2 supply:
All gas injection lines are filtered via HEPA filter to remove impurities and contaminants before being injected into the chamber. The HEPA filter is able to filter particles larger than 0.3um at 99.998%.
CO2 Inlet filter
Absolutely condensation-free, even at high air humidity level:

SPECIFICATIONS

Model	BFN1G2
Construction	
--Exterior dimensions (WxDxH, mm/inch)	780x820x944 (30.7x32.3x37.2)
--Interior dimensions (WxDxH, mm/inch)	607x583x670 (23.9x22.9x26.4)
--Interior Volume (L/cu.ft)	240L/8.5 cu.ft.
--Net Weight	80kg/176lbs
--Interior Material	Type 304, mirror finish, stainless steel
--Exterior Material	Electrolyzed galvanization steel, powder coated
--Inner door	3 Shelves
Temperature	
--Heating method	Direct Heat & Air Jacket (DHA)
--Temp. control system	Microprocessor
--Temp. sensor	PT1000
--Temp. range	5°C above ambient temperature to 50°C
--Temp. uniformity	±0.2°C
--Temp. stability	±0.1°C
CO2	
--Inlet pressure	0.1 MPa
--CO_2 control system	Microprocessor

--CO_2 sensor	Thermal conductivity
--CO_2 range	0 to 20%
--CO_2 stability	±0.1%
Humidity	
--Humidifying system	Special designed water reservoir
--Relative humidity	≥95%
--Water reservoir volume	3L
Shelves	
--Shelf dimensions (WxD, mm/inch)	423x445 (16.7x17.5)
--Shelf construction	Type 304, mirror finish, stainless steel
--Standard/Maximum shelves	3, 12
Fittings	
--Access port	Standard
--Air filter	0.3μm, Efficiency:99.998% (for CO_2)
--Remote alarm contacts	Standard
De-contamination	90°C moist heat disinfection
Rated power	735W
Power supply	220V/50Hz (standard), 110V/60Hz (optional)
Alarm system	Power interruption * High/Low temperature * Deviation of CO_2 * RH * Door ajar * Independent overheat protection
Data output	RS232
Alt Name	CO2 Incubator

FEATURES

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CO2 Inlet filter

Absolutely condensation-free, even at high air humidity level:
The high air humidity prevents cell cultures from drying out and also keeps the osmolarity constant in the culture medium. With our CO2 incubators, you can work with air humidity up to 95% while the internal walls remain completely dry (In order to prevent contamination, however, no condensation must occur). The patented tilted water reservoir system keeps the air humidity absolutely stable.

Water reservoir

Optimum temperature control:
A reliable air jacketed heating system combined with PT1000 temperature sensors ensures high precision with homogenous heat distribution in the interior.
Outstanding dynamics ensure short recovery times and balance out any fluctuations caused by door open for CO2 incubators. This provide reliable protection at any time, particularly for sensitive cultures.

Note: The main heater provides precise temperature control.
The bottom heater warms the distilled water and ensures chamber humidity.
The outer door heater prevents condensation on the inner door and facilitates quick temperature recovery after door openings.

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