



CO2 INCUBATOR WATER JACKETED BFN1H1 (BCWJ-302)

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CO2 INCUBATOR

Water-jacketed:

The large Size CO2 incubator incorporates a water jacketed system. Because of the heat retention characteristics of water, there is no sudden temperature change in the event of an unexpected power failure. A stable temperature environment is ensured.



HEPA filter:

It applies the long term effectiveness of the HEPA filter to protect your cultures. The filter is very efficient to entrap particulates larger than 0.3um at 99.97%. The HEPA filter system runs continuously and within every 60 seconds, the volume of the entire chamber is disinfected. With help of HEPA filter, the air quality achieves Class 100 clean room levels within 5 minutes following a door opening.

Airflow system:

The optimized air flow system ensures the temperature and CO2 concentration to be stable and uniform within the chamber.

AUTO-ZERO/AUTO-START:

It combines precise CO2 control with a choice of TC or IR sensors. The microproc

SPECIFICATIONS

Model	BFN1H1
Old Model	BCWJ-302
Construction	
--Exterior dimensions (WxDxH, mm/inch)	655x656x1030 (mm) 25.8x25.8x40.5 (inch)
--Interior dimensions (WxDxH, mm/inch)	544x504x681 (mm) 21.4x19.8x26.8 (inch)
--Interior Volume (L/cu.ft)	185L / 6.5 cu.ft.
--Water Jacket volume	43.5L / 1.54 cu.ft.
--Net Weight	110kg / 242 lbs
--Interior Material	Type 304, mirror finish stainless steel
--Exterior Material	Cold-rolled steel, powder coated
--Inner door	One inner door standard
Temperature	
--Heating method	Water Jacket
--Temp. control system	Microprocessor
--Temp. sensor	PT1000
--Temp. range	5°C above ambient temperature to 55°C
--Temp. uniformity	±0.2°C
--Temp. stability	±0.1°C
CO2	
--Inlet pressure	0.1 MPa
--CO2 control system	Microprocessor
--CO2 sensor	Thermal conductivity / Infrared
--CO2 range	0 to 20%
--CO2 stability	±0.1%
Humidity	
--Humidifying system	Humidity pan
--Humidifying sensor	Standard
--Relative humidity	≥95%

--Display	In 0.1% increments
--Water reservoir volume	3L
Shelves	
--Shelf dimensions (WxD, mm/inch)	466x440 (mm) 18.3x17.3 (inch)
--Shelf construction	Type 304, mirror finish, stainless steel
--Standard/Maximum shelves	3, 11
Fittings	
--Access port	Standard
--Air filter	0.3µm, Efficiency: 99.998% (for CO ₂)
--Remote alarm contacts	Standard
De-contamination	HEPA filter system
Rated power	430W
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

HEPA filter:

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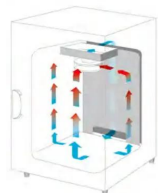


Airflow system:

The optimized air flow system ensures the temperature and CO₂ concentration to be stable and uniform within the chamber.

AUTO-ZERO/AUTO-START:

It combines precise CO₂ control with a choice of TC or IR sensors. The microprocessor will automatically "Zero" the incubator(IR type) using room air as a reference every 24 hours. Auto-start function for TC type ensures the sensor's baseline automatically reset without manual adjustment. These features will maintain an accurate CO₂ control without worrying about CO₂ drift.



HEPA filter and air flow pattern

Automatic control door heater:

The outer door incorporates a door heater which is interlocked with the surrounding temperature monitoring system. This prevents temperature differences between the chamber and the inner door, thereby preventing condensation.

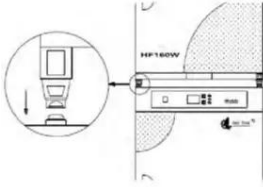
Humidity display and alarming system:

It is able to create a high humidity environment and the relative humidity (RH) is displayed on the panel, readable in 0.1% increments, including low RH programmable alarm(alerts you of need to add water)



Space Utility:

Stackable design takes up less space. Two or three units can be stacked according to available space and usage.



Automatic gas cylinder switchover system:

This system automatically switches from the primary to secondary gas cylinder when CO2 gas level does not change while an injection valve is open.



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