



AIR-JACKETED MULTI GAS INCUBATOR BFN1I1 (BIBD-206)

AIR-JACKETED MULTI GAS INCUBATOR BFN111

TRI-GAS INCUBATOR

Tri-gas incubator, providing precise temperature, CO₂, O₂ control as well as high humidity, is widely used in scientific research to grow and maintain cell cultures. Typical fields of application include tissue engineering, in vitro fertilization, neuroscience, cancer research and other mammalian cell research.

- A. Stainless steel chamber with easy-to-clean covered corners reduces contamination-prone surface.
- B. The turbulence-free chamber ventilation improves CO₂, O₂, humidity and temperature uniformity.
- C. Easy-removable, replaceable shelves make chamber cleaning a rapid and efficient process.
- D. Standard three inner glass doors minimize recovery time and the risk of contamination.
- E. The design of water reservoir replacing water tray, allows rapid recovery of optimal humidity.
- F. Water level alarm (audible and visible) alerts users when the water reservoir needs to be refilled.
- G. Integrated electric siphon pump facilitates drainage operation.



Contamination prevention:

90°C disinfection routine decontaminates the entire interior of the chamber while causing less damage to electronic components
In independent tests, a routine disinfection cycle is proven to completely eliminate a variety of contaminants including mycoplasma
A completely smooth inner casing with rounded corner reduces the possibility of hidden contamination. Easy-removable, replaceable shelves make chamber cleaning a rapid and efficient process.

90° moist heat decontamination

Condensation control

Temperature control:

Direct heating enables rapid temperature recovery while air jacket provides isol

SPECIFICATIONS

Model	BFN111
Old Model	BIBD-206
Temp. Control Method	Direct heat & air jacket
Temp. Control sensor	Pt1000
Temp. Range (°C)	Amb. +3 to 55°C
Temp. Accuracy (°C)	±0.1
Recovery Time	≤7 mins (After 30 sec. Door opening)
CO ₂ control system	Microprocessor PID
CO ₂ range (% CO ₂)	0-20
CO ₂ accuracy (% CO ₂)	±0.1 (at 37°C)
CO ₂ sensor	IR standard or TC optional
O ₂ range (% O ₂)	1.0%-20% or 3.0%-85.0%
O ₂ accuracy (% O ₂)	±0.2 (at 37°C)
O ₂ sensor	Zirconium
Humidity range (% RH)	≥90%±3%R
Interior Volume	151 L
External Dimensions (mm) (WxDxH)	637x768x869
Interior Dimensions (mm) (WxDxH)	470x530x607
Net Weight	75 kg
Standard Quantity of Shelves	3
Maximum Quantity of Shelves	10
Shelf Dimensions (mm) (WxD)	423x445
Max. Load per Shelf (Kg)	10

Available Electrical configuration	220V±10% / 50Hz (standard)
Rated Power	≤650VA±10%
Interior material	Stainless steel, type 304
Alt Name	Tri-Gas Incubator

FEATURES

Contamination prevention:

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A completely smooth inner casing with rounded corner reduces the possibility of hidden contamination. Easy-removable, replaceable shelves make chamber cleaning a rapid and efficient process.



90° moist heat decontamination



Condensation control

Temperature control:

Direct heating enables rapid temperature recovery while air jacket provides isolation against ambient temperature fluctuations
PT1000 temperature sensor ensures stable temperature control with little gradient and prompt temperature recovery without overheat

Three temperature control settings (main heater, outer door heater and overheat protection) minimize condensation and yield precise temperature uniformity.

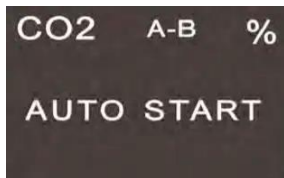
CO2 control:

Drift free IR CO2 sensor responds extremely fast to gas concentration changes

Auto-zero runs automatically to recover the indicator to 'zero' every 24 hours

HEPA filter of CO2 inlet port can remove impurities and contaminants with efficiency 99.998% @ 0.2um

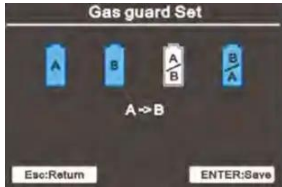
Standard CO2 cylinder auto changer alerts users and ensures continuous CO2 supply.



AUTO START



Access port



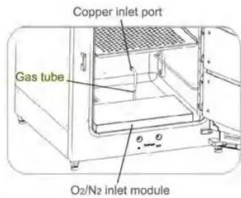
Gas Guard Set

O₂ control:

Maintenance-free zirconium oxide sensor: long life, good linearity and high precision

Oxide sensor is calibrated automatically(auto-cal) and stays in the incubator during the 90°C decontamination routine

Well designed O₂/N₂ inlet module improves humidity stability in chamber.



Constant humidity

Larger water surface area provided by water reservoir with inclined and rounded corners

A new water level alarm(audible and visible) alerts users when the water reservoir needs to be refilled.

Standard humidity sensor ensures a constant high level of humidity to prevent cultures from drying out.

User-friendly interface:

Microprocessor with soft-touch control panel for optimum operation

Large-size TFT-LCD display for temperature, CO₂, O₂ concentration and RH

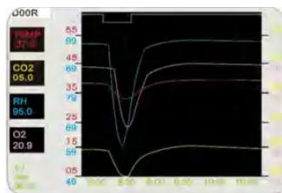
Comprehensive visual and audio alarms for all parameters

Diagnostic interface provide comprehensive solutions to frequently encountered problems.

RS8232 port standard for communication and external instrument logging.



Large-size TFT-LCD



Real-time monitoring system



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