



## AIR-JACKETED MULTI GAS INCUBATOR

# AIR-JACKETED MULTI GAS INCUBATOR BFS111

## BIO-INCUBATOR

The Biological Indicator Incubator is compact, versatile, reliable and easy to use. Designed for single temperature incubation of the EO Biological Indicators. The thermometer is included with the incubator, providing easy verification of incubation temperature.



Compact, fits in the palm of your hand  
LCD display .it s easy to setup and use  
Different kinds of aluminum blocks are available  
Clear cover ensures temperature uniformity  
Portable;Optional 24V adapter

## SPECIFICATIONS

Model	BFS111
Old Model	BIMA-113
Operating temperature range	From 5°C above ambient to 100°C
Time range	1 min - 99 h 59 min
Temp. control accuracy	± 0.5°C
Display accuracy	0.1°C
Heating time	< 6 min (from 20°C to 57°C)
Temp. control accuracy @57°C	± 0.35°C
Dimensions (WxDxH, mm)	120 x 152 x 112
MOQ-5PCS	
Alt Name	Bio-Incubator

## ACCESSORIES FOR PURCHASE

No	Name	Specification
1	TB-B10	Ø10 mm x 32 mm x 15 tube block (MOQ-5PCS)
2	TB-B12	Ø12 mm x 32 mm x 12 tube block (MOQ-5PCS)
3	TB-B15	Ø15 mm x 32 mm x 8 tube block (MOQ-5PCS)
4	TB-B16	Ø16 mm x 32 mm x 8 tube block (MOQ-5PCS)
5	TB-B09	Ø9 mm x 18 tube block (MOQ-5PCS)

# AIR-JACKETED MULTI GAS INCUBATOR BEV1E1 TO BEV1E8

## INCUBATOR

Applicable to the analysis and BOD determination of water, is a dedicated research department of environmental protection, health and epidemic prevention, drug testing, livestock, aquatic thermostatic device.

Biochemical Incubator/Mold Incubator can provide a stable temperature environment, large temperature range, with the function of cooling and heating, satisfy culture and preservation of cell and microbe, and plant growth test.

According to Chinese pharmacopoeia requirements, AS3010 of Australia, FDA of the United States, EN, ICH and other related standards. For long-term acceleration experiments and forced degradation experiments.

IQ, OQ, PQ and other related certification services.

CE certification. Two-year warranty period.



### Refrigeration Technology

World famous compressor: balanced refrigeration technology, auto defrost, multiple security system, long time running, environmental protection, high efficiency and energy saving.

Auto-defrost function: original rapid heat pump defrost technology, for continuous operation, effectively prevents frost because of continuous operation of the evaporator.

Refrigeration effect manual control system: meet customer's terrible work environment.

Imported DuPont SUVA R134a environmental refrigerant. For a cleaner world, for better work conditions.

To save energy, to reduce the cost.

## SPECIFICATIONS

Model	BEV1E1	BEV1E2	BEV1E3	BEV1E4
Old Model	BIMA-106	BIMA-107	BIMA-108	BIMA-109
Convection Mode	Forced Convection			
Control System	Microprocessor PID			
Temp. Range (°C)	0~65°C			
Temp. resolution (°C)	0.1°C			
Temp. Fluctuation (10~40°C)	±0.5°C			
Temp. Uniformity (°C) (10~40°C)	±1			±1.5
Timer Range	0~99 Hours, 0~9999 minutes, can be chose			
Working environment	Ambient temperature: 10~30°C, Humidity<70%			
Insulation materials	Imported environmental protection type material			
External Dimensions (HxWxD) mm	1250x630x680	1410x650x680	1730x650x740	1700x745x930
Internal Dimensions (HxWxD) mm	610x490x390	760x510x390	1100x510x450	1050x600x640
Interior Volume (L)	100	150	250	400
Interior materials	SUS304 stainless steel materials			
Standard tray number	3		4	
Standard power (W)	850	1000	1100	
Power supply voltage	Single phase AC220V/50Hz			
Shipping Weight (KG)	95	107	135	158
Net Weight (KG)	120	133	162.5	188
Shipping Dimensions (HxWxD) mm	1450x730x830	1605x760x830	1935x760x890	1907x815x1090
Alt Name	Biochemical Incubator			

Model	BEV1E5	BEV1E6	BEV1E7	BEV1E8
Old Model	BOHA-313	BOHA-314	BOHA-315	BOHA-316
Convection Mode	Forced Convection			
Control System	Microprocessor PID			
Temp. Range (°C)	0~65°C			
Temp. resolution (°C)	0.1°C			
Temp. Fluctuation (10~40°C)	±0.5°C			
Temp. Uniformity (°C) (10~40°C)	±1			±1.5
Timer Range	0~99 Hours, 0~9999 minutes, can be chose			
Working environment	Ambient temperature: 10~30°C, Humidity<70%			
Insulation materials	Imported environmental protection type material			
External Dimensions (HxWxD) mm	1250x630x680	1410x650x680	1730x650x740	1700x745x930
Internal Dimensions (HxWxD) mm	610x490x390	760x510x390	1100x510x450	1050x600x640
Interior Volume (L)	100	150	250	400
Interior materials	SUS304 stainless steel materials			
Standard tray number	3		4	
Standard power (W)	850	1000	1100	
Power supply voltage	Single phase AC220V/50Hz			
Shipping Weight (KG)	95	107	135	158
Net Weight (KG)	120	133	162.5	188
Shipping Dimensions (HxWxD) mm	1450x730x830	1605x760x830	1935x760x890	1907x815x1090
Alt Name	Mold Incubator			



## ACCESSORIES FOR PURCHASE

No	Name
1	Portable printer
2	LCD touch screen controller
3	Air Interface
4	Power supply interface
5	Software
6	Adjustable speed oscillator (for constant temperature shaking culture use)
7	Programmable multi-stages controller

## FEATURES

### Refrigeration Technology

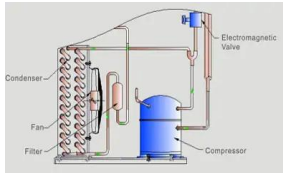
World famous compressor: balanced refrigeration technology, auto defrost, multiple security system, long time running, environmental protection, high efficiency and energy saving.

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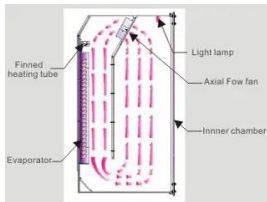
To save energy, to reduce the cost.



### Perfect Air Current Cycling

Air current cycling: perfect forced convection, maximum sample number of working room, minimum temperature recovery time after opening, world famous axial fan, perfect air current design, ensure an ideal result of sample culture.

Air current cycling: keep temperature continuous and stable, keep humidity continuous and stable, ensure perfect sample culture



### Efficient Isolation Design

Double-layer isolation design, reduce power consumption, environmental protection concept, energy conservation.

Internal isolated door design, easy observation of working room samples, keep temperature stable in the working room.



### Excellent Imported temperature Sensor

Imported industrial temperature sensor PT100, short response time, low self-heating temperature.



Pt100 temperature sensor

## Programmable PID Control

Integrated dot-matrix LCD display, Chinese and English subtitles, all the parameters display clearly at a glance. Friendly design, display parameters: measured value of temperature, setting value of temperature, alarm, cooling, heating, run/stop.

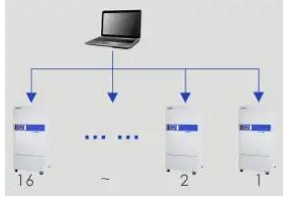
Adaptive PID controllers precisely control the temperature, prevent temperature soaring, keep the working room temperature stable and uniform.

User password protection, built-in multifunctional memory menu, connect to multiple devices (up to 16 units) by RS485 interface at the same time, real-time monitoring.

Set operations with beep tips.

Remote-controlled operation, with programmable software (option).

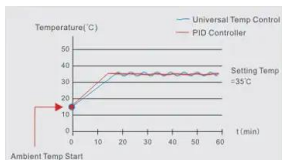
Bacteria-free culture with UV disinfection (meet Mold incubator).



## Software Monitor



## Micro-computer intelligent controller



# AIR-JACKETED MULTI GAS INCUBATOR BFN112 BFN113

## TRI-GAS INCUBATOR

Tri-gas incubator, providing precise temperature, CO<sub>2</sub>, O<sub>2</sub> 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 CO<sub>2</sub>, O<sub>2</sub>, 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

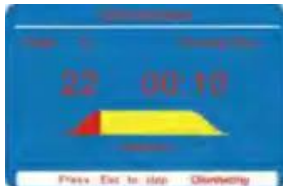
Model	BFN112	BFN113
Temp. Control Method	Direct heat & air jacket	
Temp. Control sensor	Pt1000	
Temp. Range (°C)	Amb. +3 to 55°C	
Temp. Accuracy (°C)	±0.1	
Recovery Time	≤7 mins (After 30 sec. Door opening)	
CO <sub>2</sub> control system	Microprocessor PID	
CO <sub>2</sub> range (% CO <sub>2</sub> )	0-20	
CO <sub>2</sub> accuracy (% CO <sub>2</sub> )	±0.1 (at 37°C)	
CO <sub>2</sub> sensor	IR standard or TC optional	
O <sub>2</sub> range (% O <sub>2</sub> )	1.0%-20% or 3.0%-85.0%	
O <sub>2</sub> accuracy (% O <sub>2</sub> )	±0.2 (at 37°C)	
O <sub>2</sub> 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:

90°C disinfection routine decontaminates the entire interior of the chamber while causes 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 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.

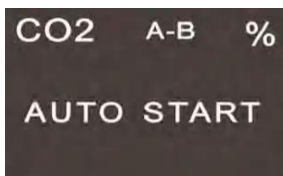
### CO2 control:

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.

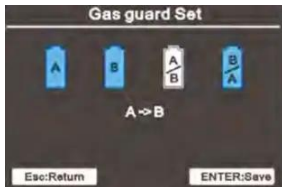


AUTO START



Access port





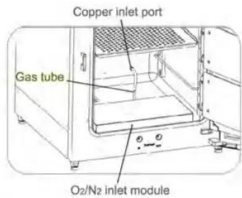
Gas Guard Set

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

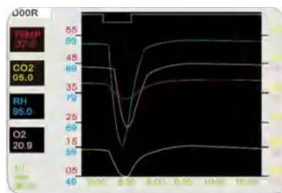
Comprehensive visual and audio alarms for all parameters

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



**Biolab Scientific Ltd.**

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)