BioLAB

PRODUCT CATALOG

CO2 INCUBATOR AIR JACKETED

CE ISO9001 CERTIFIED

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CO2 INCUBATOR AIR JACKETED BGI1Y1 TO BGI1Y8

CO2 INCUBATOR

With Infrared CO2 Sensor
• Faster CO2 concentration Restoration Speed.
• Infrared sensor can keep CO2 concentration stability and uniformity when door open frequently.
• Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning(except
water-jacketed type), and the space between the shelves in the chamber is adjustable.
• Microorganism filter at inlet provides 99.99% filtration of bacteria and dust (Φ<0.3μm)
and supplies pure CO2 into the incubator.
• Door temperature controller prevents dewfall on glass door of incubator effect

SPECIFICATIONS

Model	BGI1Y1	BGI1Y2	BGI1Y3	BGI1Y4
Old Model	BCAJ-8401	BCAJ-8402	BCAJ-8403	BCAJ-8404
Electrical Requirement	220V 50Hz			
Power Consumption	450W	500W	750W	
Heating Method	Air-jacketed, PID Control			
Temperature Range	RT+5~55°C			
Ambient Temperature	+5~30°C			
Temperature Stability	±0.2°C			
CO_2 Range	0~20% V/V			
CO_2 Control Resolution	±0.1%(IR sensor)			
CO_2 Recovery	(Door open 30s, recovery to 5%) ≤ 3min			
Temperature Recovery	(Door open 30s, recovery to 37°C) ≤ 8min			
Humidity Method	Natural vaporization ≥ 90%			
Chamber Volume	50L	80L	150L	190L
Interior Dimension (WxDxH)mm	400x285x350	400x450x500	480x530x610	520x530x690
Exterior Dimension (WxDxH)mm	580x450x730	590x657x870	670x710x950	708x710x1030
Shelves	2(pcs)		3(pcs)	
Sterilization Method	UV Sterilizer			
Alt Name	CO2 Incubator			

Model	BGI1Y5	BGI1Y6	BGI1Y7	BGI1Y8
Old Model	BCAJ-8405	BCWJ-8501	BCWJ-8502	BCWJ-8503
Electrical Requirement	220V 50Hz			
Power Consumption	950W	250W / 680W		950W
Heating Method	Air-jacketed, PID Control	Water-jacketed, PID Control		
Temperature Range	RT+5~55°C			
Ambient Temperature	+5~30°C			
Temperature Stability	±0.2°C	±0.1°C		
CO_2 Range	0~20% V/V			
CO_2 Control Resolution	±0.1%(IR sensor)			
CO_2 Recovery	(Door open 30s, recovery to 5%) ≤ 3min			

Temperature Recovery	(Door open 30s, recovery to 37°C) ≤ 8min			
Humidity Method	Natural vaporization ≥ 90%			
Chamber Volume	240L	26L	80L	150L
Interior Dimension (WxDxH)mm	600x630x670	290x290x310	400x400x500	500x500x650
Exterior Dimension (WxDxH)mm	788x837x940	400x410x544	550x520x764	650x615x914
Shelves	3(pcs)	2(pcs)		3(pcs)
Sterilization Method	UV Sterilizer			
Alt Name	CO2 Incubator			

FEATURES

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• Door temperature controller prevents dewfall on glass door of incubator effectively.
• Independent audible and visible temperature-limiting alarm system ensures experiments run safely.(Option)
• Alarm function for temperature difference, CO2 over concentration and concentration difference, door open time, UV working status.
• Auto-controller of fan speed to prevent damage to the samples.
• UV light system for periodic sterilization of chamber.
• PID controller with LCD screen ensures precise and reliable control.
• Two-layer stacking available.

Options
• RS-485 Connector: easy to download and save all the data via RS-485 into computer, and identify problems in time.
• High effective filter provides filtration of bacteria and dust.
• CO2 pressure releasing valve
• Humidity display system
• Printer(Nested)
• Temperature-limiting alarm system
• Cooling system

CO2 INCUBATOR AIR JACKETED BEV1M1 BEV1M2

CO2 INCUBATOR

Microcomputer intelligent PID control technology, to maintain accurate and constant temperature and with timing, also with ultra-high temperature alarm function.
Internally equipped with a UV germicidal lamp, which can effectively kill bacteria, fungi, mycoplasma and other microorganisms
The unique air circulation, soft wind, to ensure temperature uniformity
Gas distribution type, CO2 recovery time ≤ concentration x 1.2Min
Adopt a door heating control system,which can effectively avoid frost in glass doors.
The design of the double doors, built-in tempered glass viewing window, clear observation of the locker, shelf up and down pitch adjustable.
Cavity warm-up technology and outdoor heating

SPECIFICATIONS

Model	BEV1M1	BEV1M2
Old Model	BCAJ-101	BCAJ-102
Temp range (℃)	RT +5~60	
Accuracy (℃)	±0.1	
Fluctuation (%)	±0.5	
CO2 control range	0~20%	
Voltage (V)	220	
Power (KW)	0.35	
Inner size (mm) (H*W*D)	500x400x400/80L	650x550x500/160L
Overall dimension (mm) (H*W*D)	835x550x550	985x700x650
Packing size (mm) (H*W*D)	955x630x630	1105x780x730
Net weight (KG)	36	57
Shipping weight (KG)	40	62
Alt Name	Gas distribution type, Stainless steel tank	

ACCESSORIES FOR PURCHASE

No	Name
1	Intelligent temperature controller
2	Independent temperature controller

1

2

FEATURES

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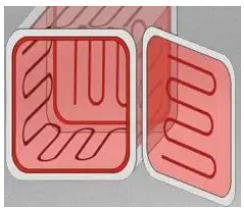
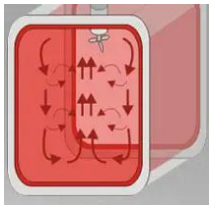
The unique air circulation, soft wind, to ensure temperature uniformity
Gas distribution type, CO2 recovery time ≤ concentration x 1.2Min
Adopt a door heating control system,which can effectively avoid frost in glass doors.
The design of the double doors, built-in tempered glass viewing window, clear observation of the locker, shelf up and down pitch adjustable.

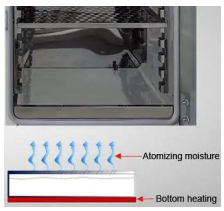


Cavity warm-up technology and outdoor heating



Airflow circulation system

Stainless steel inner

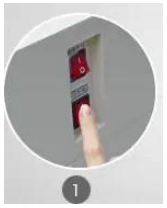


Integrated humidification design

UV sterilization system

Rear double fuse and interface

Operation chart:



Press the power switch

Press the function button

Set the concentration of CO2

Set up to complete the automatic of the machine,arrive time will be an automatic alarm,and then stop running.

APPLICATIONS

It is an advanced instrument applied to cells, tissues, and bacterial culture . It is the key equipment to carry out essential immunology, oncology, genetics and bio-engineering. Widely used in microorganisms, agricultural science, drug research and production.

CO2 INCUBATOR AIR JACKETED BGI1X1 TO BGI1X6

CO2 INCUBATOR

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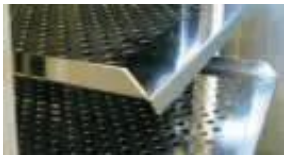
• Door temperature controller prevents dewfall on glass door of incubator effectively.
• Independent audible and visible temperature-limiting alarm system ensures experiments run safely.

SPECIFICATIONS

Model	BGI1X1	BGI1X2	BGI1X3
Old Model	BCAJ-6801	BCAJ-6802	BCAJ-6803
Chamber Volume	40L	80L	155L
Temperature Range	RT+5°C ~55°C		
Electrical Requirement	220V 50Hz		

Power Consumption	350W	500W	750W
Ambient Temperature	+5~30℃		
Heating Method	Air-jacketed, PID Control		
Temperature Resolution	0.1		
Temperature Stability	±0.1℃		
Temperature Uniformity (37℃)	±0.3℃		
CO_2 Range	0~20% V/V		
CO_2 Control Resolution	±0.1%(IR sensor)		
CO_2 Recovery	(Door open 30s, recovery to 5%) ≤ 3min		
Temperature Recovery	(Door open 30s, recovery to 37℃) ≤ 8min		
Humidity Method	Natural vaporization ≥ 90%		
Shelves	2(pcs)		3(pcs)
Interior Dimension (WxHxD)mm	400x286x350	400x450x500	480x530x610
Exterior Dimension (WxHxD)mm	590x440x576	590x687x790	670x767x880
Sterilization Method	18hrs (90℃ moist heat disinfection)		
Alt Name	CO2 Incubator		

Model	BGI1X4	BGI1X5	BGI1X6
Old Model	BCAJ-6804	BCAJ-6805	
Chamber Volume	190L	240L	500L
Temperature Range	RT+5℃ ~55℃		
Electrical Requirement	220V 50Hz		
Power Consumption	750W	950W	1450W
Ambient Temperature	+5~30℃		
Heating Method	Air-jacketed, PID Control		
Temperature Resolution	0.1		
Temperature Stability	±0.1℃		
Temperature Uniformity (37℃)	±0.3℃		
CO_2 Range	0~20% V/V		
CO_2 Control Resolution	±0.1%(IR sensor)		
CO_2 Recovery	(Door open 30s, recovery to 5%) ≤ 3min		
Temperature Recovery	(Door open 30s, recovery to 37℃) ≤ 8min		
Humidity Method	Natural vaporization ≥ 90%		
Shelves	3(pcs)		
Interior Dimension (WxHxD)mm	520x530x690	600x630x670	700x650x1100
Exterior Dimension (WxHxD)mm	708x710x1030	788x837x940	880x860x1500
Sterilization Method	18hrs (90℃ moist heat disinfection)		
Alt Name	CO2 Incubator		



FEATURES

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• Auto-controller of fan speed to prevent damage to the samples.
• PID controller with LCD screen ensures precise and reliable control.
• Two-layer stacking available.
• UV light system for periodic sterilization of chamber.

Options:
• RS485 Connector: Easy to download and save all the data via RS485 into computer, and identify problems in time.
• High effective filter provides filtration of bacteria and dust.
• CO2 pressure releasing valve.
• Humidity display system.

CO2 INCUBATOR AIR JACKETED BER1DG1 TO BER1DG4

CO2 INCUBATOR

1. Full color 7.0 inch touch screen.
2. Standard Germany infrared high temperature and high precision CO2 concentration sensor.
3. Has three levels of authority management function, with high temperature 180°C sterilization function.
4. Six side heating air jacket heating system, while the design of a reasonable air duct mechanism, good temperature uniformity, heating, rapid return temperature.
5. Adopts chassis reservoir design with large evaporation area and fast moisture return. With a door heating device, can avoid the inner door glass condensation. The product is equipped with high efficiency filter and intake filter to ensure the cleanliness of the air in the working room.

SPECIFICATIONS

Model	BER1DG1	BER1DG2	BER1DG3	BER1DG4
Heating System	Air jacket			
Performance				
--Temp Range	RT+5~55°C			
--Temp Resolution Ratio	0.1°C			
--Temp Fluctuation	±0.1°C			
--Temp Uniformity	±0.3°C			
--CO2 Sensor	Infrared type/measuring range: 0.0~21.0%			
--CO2 Control Range	0.0~20.0%			0.0~21.0%
--CO2 Control Accuracy	±0.1%			

Construction				
--Inner Chamber	SUS304 stainless steel studio			
--Outer Shell	Cold-rolled steel plate, surface electrostatic spraying			
--Insulation Layer	Polyurethane			
--Heater	Heating sheet			
--Humidity Method	Humidifying pan evaporates naturally			
--Rated Power	0.4kW	0.5kW	0.6kW	0.7kW
--Gas Vent	Φ27mm rear (with test hole function)			
--Other	HEPA filter			
Controller				
--Temp Control Mode	Intelligent fuzzy PID control			
--Temp Setting Mode	Touch screen			
--Timer	0~9999 minutes (with timing wait function)			
--Operation Function	Fixed value operation, timed operation, automatic stop			
--Sterilization Function	Ultraviolet sterilization, wet heat sterilization, high temperature sterilization			
--Additional Function	Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power off parameter memory			
--Sensor	PT100, water level sensor, CO2 sensor			
Safety Device	High temperature alarm			
Specification				
--Inner Chamber(W*L*Hmm)	345*375*388	404*439*454	509*472*632	540*500*670
--Exterior Size(W*L*H mm)	500*500*655	585*585*766	593*746*842	629*791*893
--Packing Size(W*L*H mm)	620*620*855	705*705*966	713*866*1042	749*911*1093
--Inner Volume	50L	80L	150L	180L
--Shelf Number	4	5	6	7
--Load Per Rack	15kg			
--Shelf Space	35mm			
--Power Supply (50/60 Hz) Rated Current	AC220V/1.8A	AC220V/2.3A	AC220V/2.7A	AC220V/3.2A
--NW/GW (kg)	55/70	77/85	93/108	115/130
--Shelf	2			
--Partition Rack	4			
Optional Accessories	Shelf, printer			
Alt Name	CO2 Incubator			

APPLICATIONS

Widely used in microbiology, medicine, pharmaceutical, environmental protection, food, animal husbandry and other scientific fields of research and production. It is commonly used in the research fields of cell dynamics, collection of mammalian cell secretions, carcinogenic or toxicological effects of various physical and chemical factors, research and production of antigens, culture of hybridoma cells for antibody production, stem cells, tissue engineering, drug screening and other research fields.

CO2 INCUBATOR AIR JACKETED BGI1W1 TO BGI1W5

CO2 INCUBATOR

With Imported Infrared CO2 Sensor
• Touch screen controller, 72-hour machine operation record query function to help user tracking abnormal conditions and trace historical operation information.
• Faster CO2 concentration Restoration Speed.
• Infrared sensor can keep CO2 concentration stability and uniformity when door open frequently.
• Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning(except water-jacketed type) , and the space between the shelves in the chamber is adjustable.
• Microorganism filter at inlet provides 99.99% filtration of bacteria and dust (Φ<0.3μm) and supplies pure CO2 into the incubator.
• Door temperature controller prevents dewfall on glass door of incubator effect

SPECIFICATIONS

Model	BGI1W1	BGI1W2	BGI1W3	BGI1W4
Old Model	BCAJ-8201	BCAJ-8202	BCAJ-8203	BCAJ-8204
Electrical Requirement	220V 50Hz			
Screen	7" Touch screen			
Power Consumption	350W	500W	700W	750W
Heating Method	Air-jacketed, PID Control			
Temperature Range	RT+5~55°C			
Ambient Temperature	+5~30°C			
Temperature Stability	±0.1°C			
CO_2 Range	0~20% V/V			
CO_2 Control Resolution	±0.1%(IR sensor)			
CO_2 Recovery	(Door open 30s, recovery to 5%) ≤ 3min			
Temperature Recovery	(Door open 30s, recovery to 37°C) ≤ 8min			
Humidity Method	Natural vaporization ≥ 90%			
Chamber Volume	40L	80L	155L	190L
Interior Dimension (WxDxH)mm	400x286x350	400x450x500	480x530x610	520x530x690
Exterior Dimension (WxDxH)mm	590x440x576	590x687x790	670x770x880	708x710x880
Shelves	2(pcs)		3(pcs)	
Sterilization Method	90°C moist heat disinfection (18hrs)+UV Sterilizer			
Alt Name	CO2 Incubator			

Model	BGI1W5
Old Model	BCAJ-8205
Electrical Requirement	220V 50Hz
Screen	7" Touch screen
Power Consumption	1000W
Heating Method	Air-jacketed, PID Control
Temperature Range	RT+5~55°C
Ambient Temperature	+5~30°C
Temperature Stability	±0.1°C
CO_2 Range	0~20% V/V

CO_2 Control Resolution	±0.1%(IR sensor)
CO_2 Recovery	(Door open 30s, recovery to 5%) ≤ 3min
Temperature Recovery	(Door open 30s, recovery to 37°C) ≤ 8min
Humidity Method	Natural vaporization ≥ 90%
Chamber Volume	233L
Interior Dimension (WxDxH)mm	600x630x670
Exterior Dimension (WxDxH)mm	790x840x940
Shelves	3(pcs)
Sterilization Method	90°C moist heat disinfection (18hrs)+UV Sterilizer
Alt Name	CO2 Incubator

FEATURES

With Imported Infrared CO2 Sensor

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• Independent audible and visible temperature-limiting alarm system ensures experiments run safely.
• Alarm function for temperature difference, CO2 over concentration and concentration difference, door open time, UV working status.
• Auto-controller of fan speed to prevent damage to the samples.
• 90°C high temperature and humidity streilization function.(RHP series)

Options

• RS485 Connector: easy to download and save all the data via RS-485 into computer, and identify problems in time.
• High effective filter provides filtration of bacteria and dust.
• CO2 pressure releasing valve.
• Humidity display system.
• Printer(Nested).
• Temperature-limiting alarm system.

CO2 INCUBATOR AIR JACKETED BEV1D1 BEV1D2

CO2 INCUBATOR

Use in cell culture, microbiology research, pathology academic, life science fields;
CO_2 Incubator succeeded in creating a natural growth of the same simulation environment, Chamber heating technology to provide a stable temperature, the professional-grade IR CO_2 sensor, more accurately detect CO_2 concentration;
Equipped with UV sterilization lamp, effectively prevent cross-contamination of cultivation
IQ, OQ, PQ and other related certification services.
Aus. AS2064 certification. CE certification. Two-year warranty period.

Chamber Preheating Technology
Chamber preheating technology is the heating element evenly distributed in the interior, pre-heat the cavity and inner wall, and then through the heat transfer and forced-fan convection, so that the temperature of each cavity can accurately reach and maintain setting value, thus ensuring uniform distribution of the cavity temperature.
Chamber of six surface heating, in which the glass door is in possession of the heating system to prevent frost of the glass door.
CO_2 Incubator with low energy consumption, heat not easily lost. Save energy, enabling customers to use the cost reduction.
Clean Air Circulation System
Perfect forced convection of the air circulation system to ensure the shortest t

SPECIFICATIONS

Model	BEV1D1	BEV1D2
Old Model	BCAJ-201	BCAJ-202
Convection Mode	Forced Convection	
Control System	Microprocessor PID	
Temp. Range (°C)	RT+5°C~55°C	
Temp. Accuracy (°C)	0.1	
Temp. Fluctuation (37°C)	±0.5	
Temp. Uniformity (37°C)	±0.8	
CO_2 Range	0~20%	
CO_2 control way	IR sensor (±0.1%)	
CO_2 Recovery time	(after 30 seconds door opening to 5%) ≤2 minutes	
Temp. Recovery time	(after 30 seconds door opening to 37°C) ≤8 minutes	
Relative humidity	natural evaporation >95% (with Temp. display)	
Working environment	Ambient temperature: 10~30°C, Humidity<70%	
Insulation materials	Imported environmental protection type material	
External Dimensions (HxWxD) mm	755x550x547	905x610x687
Internal Dimensions (HxWxD) mm	500x400x400	650x460x540
Interior Volume (L)	80	160
Interior materials	SUS304 stainless steel	
Shelves number	2	3
Power supply voltage	Single phase AC220V/50Hz	
Standard power (W)	500	650
Net Weight (KG)	35	55
Shipping Weight (KG)	38	58
Shipping Dimensions (HxWxD) mm	880x630x635	1030x690x695
Alt Name	CO2 Incubator	




ACCESSORIES FOR PURCHASE

No	Name
1	portable printer
2	Air interface
3	software
4	High efficiency gas filter system (efficiency is up to 99.998%=0.3um)

FEATURES

Chamber Preheating Technology

Chamber preheating technology is the heating element evenly distributed in the interior, pre-heat the cavity and inner wall, and then through the heat transfer and forced-fan convection, so that the temperature of each cavity can accurately reach and maintain setting value, thus ensuring uniform distribution of the cavity temperature.

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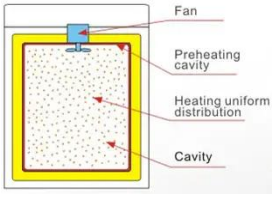
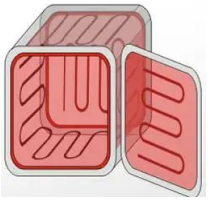




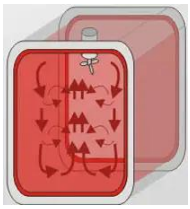
Clean Air Circulation System

Perfect forced convection of the air circulation system to ensure the shortest temperature recovery time after opening. With internationally renowned brands with a cooling fan (no maintenance, high durability), the experiment and the culture effect to reach ideal extent

Air circulation system sufficiently to ensure the continuous stability of the temperature of the working chamber. Customer set temperature is reached, given the perfect environment for sample culture;

CO_2 inlet valve with a filter device to ensure cleanliness of the cavity gas;

Equipped with a UV sterilization system in the chamber, regular basis to eliminate the cavity contaminating microorganisms effectively prevent cross-contamination during culture.



Clean airflow circulation system

Excellent Imported Temperature Sensor,Humidity Sensor,CO2 Sensor.
Imported industrial temperature sensor PT100, short response time, low self-heating temperature.
Imported humidity sensor, aerospace material, no maintenance, precise humidity control level.
Imported IR CO_2 concentration sensor with automatic temperature compensation, allows high humidity (>98%) long-term use of the environment, high accuracy, low drift, and the CO_2 concentration can be fast recovery characteristics.

Pt100temperature sensor

Precise humidity sensor

CO_2 density sensor

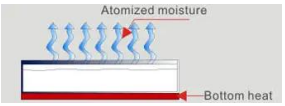
Programmable PID Control
Integrated, dot-matrix LCD display, Chinese and English subtitles, all the parameters display clearly at a glance. Display parameters: Temperature setting value, Temperature measured value, Humidity, CO_2 setting value, CO_2 measured value, Heating, Fast input, Slow input, Sterilization, 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 (optional).

Power socket and Rs485 interface

Inside Water Pan Humidification Technology

The original water pan and liner integrate a humidifier design, so that the water quickly atomizes.

Soft airflow with water vapor of the water pan out the cavity, make humidity up and recover, to ensure that the culture needs saturated water.



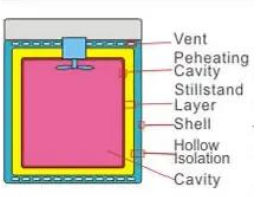
Isolation Technology

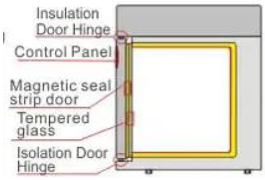
Inner isolation door design, take full account of customers in the observation of cavity samples, ensure the consistency of the cavity temperature.

Based on the effective use of heat design, complete isolation between the liner and shell to avoid energy loss due to heat transfer.

Adopt imported high-density thermal insulation material wrapped liner, effective heating insulation and stillstand.

Good silicone door seal, with the magnetic outside door design, ensure excellent sealability.





CO2 INCUBATOR AIR JACKETED BFN1G1 TO BFN1G6

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.

CO2 Incubator Air Jacketed BFN1G1

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

SPECIFICATIONS

Model	BFN1G1	BFN1G3	BFN1G4
Old Model	BCAJ-301	BCAJ-302	BCAJ-303
Construction			
--Exterior dimensions (WxDxH, mm/inch)	637x762x909 (25.1x30x35.8)	615x768x865 (24.2x30.2x34.1)	910x763x795 (35.8x30x34.1)
--Interior dimensions (WxDxH, mm/inch)	470x530x607 (18.5x20.8x23.9)		600x588x600 (23.6x23.1x23.6)
--Interior Volume (L/cu.ft)	151L/5.3 cu.ft.		212L/7.5 cu.ft.
--Net Weight	80kg/176lbs	75kg/165lbs	95kg/209lbs
--Interior Material	Type 304, mirror finish, stainless steel		
--Exterior Material	Electrolyzed galvanization steel, powder coated		
--Inner door	3 inner doors standard	One inner door standard	
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		±0.3°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	4L	6L
Shelves			
--Shelf dimensions (WxD, mm/inch)	423x445 (16.7x17.5)		590x510 (23.2x20.1)
--Shelf construction	Type 304, mirror finish, stainless steel		
--Standard/Maximum shelves	3, 10		3, 12
Fittings			
--Access port	Standard	Optional	
--Air filter	0.3μm, Efficiency:99.998% (for CO_2)		
--Remote alarm contacts	Standard		
De-contamination	90°C moist heat disinfection	UV lamp	
Rated power	600W		700W
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		

Model	BFN1G5	BFN1G6
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	6 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

BFN1G1

BFN1G3

BFN1G4

BFN1G5 BFN1G6

FEATURES BFN1G1 BFN1G5

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:

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

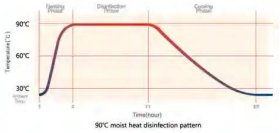
Optimum temperature control:
A reliable air jacketed heating system combined with PT1000 temperature sensors ensures high precision with homogenous heat distribution in the interior.
Outstanding dynamics ensure short recovery times and balance out any fluctuations caused by door open for CO2 incubators.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

Divided, inner glass door:
Three inner glass doors maintains stable climatic conditions, minimizes any changes to the humidity, heat and gas concentration, shortens recovery times significantly and also further reduces the risk of contamination.

with 3 inner glass doors (standard)

90°C moist heat disinfection:
They are equipped with 90 C moist heat disinfection system. The validated overnight sterilization cycle ensures reliable destruction of germs that could interfere with your work and requires no extra work, such as removal of interior fittings. Mycoplasma is 100% eliminated in a routine disinfection cycle.



90°C moist heat disinfection pattern

FEATURES BFN1G3 BFN1G4

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:
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.

Ultraviolet disinfection:
A long-life ultraviolet lamp is equipped at the inner back of these models to sterilize chamber air and water in the reservoir to maintain contamination-free conditions within the chamber. To take maximum effect of disinfection, the wavelength of UV light is kept at 254nm.

UV Lamp

FEATURES BFN1G6

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:
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.

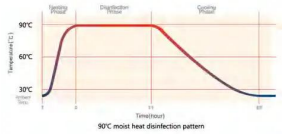
Note: The main heater provides precise temperature control.
The bottom heater warms the distilled water and ensures chamber humidity.
The outer door heater prevents condensation on the inner door and facilitates quick temperature recovery after door openings.

Divided, inner glass door:
Six half-size sealed inner glass doors and shelves are optional. This makes it possible for several users to work with the same equipment.

with 6 half-size inner glass doors and shelves (optional)

Auto-start function:
The auto-start function, which considerably simplifies the equipment's operation, contains the incubator's automatic start-up and the measuring system's calibration. The thermal conductivity CO2 sensor has its baseline automatically reset without manual adjustment. The incubator can be loaded immediately after the start-up routine is completed.

90°C moist heat disinfection:
They are equipped with 90 C moist heat disinfection system. The validated overnight sterilization cycle ensures reliable destruction of germs that could interfere with your work and requires no extra work, such as removal of interior fittings. Mycoplasma is 100% eliminated in a routine disinfection cycle.



CO2 INCUBATOR AIR JACKETED BFN1K1 BFN1K2

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 coved 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 causes less damage to electronic components
In independent tests, a routine disinfection circle 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	BFN1K1	BFN1K2
Old Model		BIBD-207
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	TCD 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	Air-jacketed CO2 Incubator

FEATURES

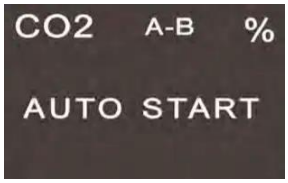
Contamination prevention:
90°C disinfection routine decontaminates the entire interior of the chamber while causes less damage to electronic components
In independent tests, a routine disinfection circle is proven to completely eliminate a variety of contaminants including mycoplasma
A completely smooth 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

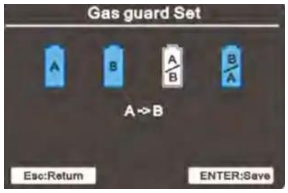
Temperature control:
Direct heating enables rapid temperature recovery while air jacket provides isolation against ambient temperature fluctuations
PT1000 temperature sensor ensures stable temperature control with little gradient and prompt temperature recovery without overheat
Three temperature control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



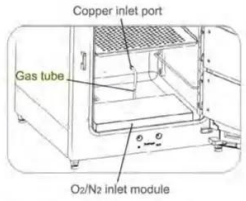
AUTO START

Access port



Gas Guard Set

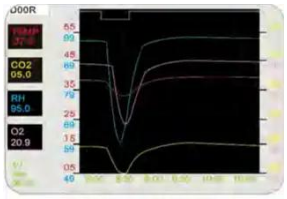
O2 control:
Maintenance-free zirconium oxide sensor: long life, good linearity and high precision
Oxide sensor is calibrated automatically(auto-cal) and stays in the incubator during the 90°C decontamination routine
Well designed O2/N2 inlet module improves humidity stability in chamber.



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

CO2 INCUBATOR AIR JACKETED BGI2D1 BGI2D2 BGI2D3

AIR JACKET CO2 INCUBATOR

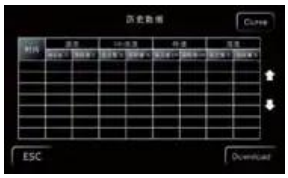
Intelligent touch screen controller:
Replace traditional button operation to touch screen interface.
It can display on the performance curve. You can check the temp., humidity (option) and CO_2 concentration three group curves changes at the same time.
And abnormal alarm and door open or close message.
When parameters are set, the controller will lock the screen automatically. It avoids unauthorized person wrong operation on the machine.
72 hours machine performance inquiry. It is convenient for user to check abnormal situation and track historical running information.
RS-485 communication port as options can be remote control on computer for monitoring the running and start or close the machine.
CO_2 concentration sensor:

SPECIFICATIONS

Model	BGI2D1	BGI2D2	BGI2D3
Old Model	BCAJ-6601	BCAJ-6602	BCAJ-6603
Electrical requirement	AC220V/50Hz		
Input power	750W		950W
Heating power	Air jacket micro computer PID control		
Temp. control range	RT+3 - 50°C		
Work environment temp	+5 - 30°C		
Temp. accuracy	±0.1°C		
CO_2 control range	0 - 20%		
CO_2 control accuracy	±0.1% (IR sensor)		
CO_2 restore time	(Door open 30s, recovery to 5%) ≤ 3min		
Temp. restore time	(Door open 30s, recovery to 37°C) ≤ 8min		
Related humidity	Nature vaporate > 95% (Can equip with related humidity digital display)		
Volume	155L	190L	240L
Chamber size WxDxH (mm)	480x530x610	520x530x690	600x630x670
Overall size WxDxH (mm)	670x767x880	708x710x1030	788x837x940
Standard shelves qty	3 pcs		
Sterilization	90 degree centigrade and UV sterilization + HEPA high efficient filter		
Alt Name	Air jacket CO2 incubator		

FEATURES

Intelligent touch screen controller:
Replace traditional button operation to touch screen interface.
It can display on the performance curve. You can check the temp., humidity (option) and CO_2 concentration three group curves changes at the same time.
And abnormal alarm and door open or close message.
When parameters are set, the controller will lock the screen automatically. It avoids unauthorized person wrong operation on the machine.
72 hours machine performance inquiry. It is convenient for user to check abnormal situation and track historical running information.
RS-485 communication port as options can be remote control on computer for monitoring the running and start or close the machine.



CO_2 concentration sensor:
You may need to open door frequently during experiment, Infrared sensor is the best choice under this circumstances. Our Infrared sensor is very sensitive to CO_2 concentration varies and it will not be affected by inside of incubator chamber conditions, measured accurately. It doesn't like traditional thermal probe that will be sensitive to chamber temp., and humidity that lead to incorrect CO_2 concentration data.
If open the door for 30s and close the door, within 3 min the CO_2 concentration can resume to the set value 5%. Even if there are many people use the same machine and frequently open and close door, the inside chamber can still maintain CO_2 concentration stable and uniform.

Temperature control and monitoring system:

A. Incubator temperature control system
PT100 temp. sensor keeps inside chamber temperature accurate. It can adjust the heating power according to the temp. differences between actual temp. in the chamber and set temp. to make sure temp. in the chamber is accurate. It can resume experiment temp. in 3 min after user open and close door to take samples.

B. Door heating system
Outer door ring has heating function. The temperature of door ring will be a little bit higher than temp. in the chamber to prevent condensed water coming from the inner glass door. It facilitates observe the experiment process, also it can help avoid biological pollution possibility due to the condensed water from the inner glass door.

C. Environment temp. detect system
Independent environment temp. detector, it can automatically adjust the CO_2 incubator heating system according to experiment environment temp. varies. In this case, over temp. in the chamber will not happen.

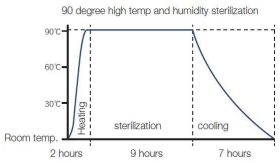
D. Over temp. protection system
It is an independent backup temp. control system besides the CO_2 incubator temp. control system. When the incubator temp. control system failed and caused temp. loss control, the chamber temp. reaches to the over temp. limited set value, over temp. protection system will cut down the heating and alarm audible with light.

E. Power off alarm system
Detect the power supply real time. When power off, the incubator will alarm audible with light to avoid any loss due to power shortages.

Sterilization system:
Ultraviolet sterilization (Option)
The ultraviolet lamp is placed at the back top of the chamber. It can sterilize the chamber regularly. It kills chamber recycle air bacteria and float bacteria from water tray or side water in the bottom, effectively prevent pollution during cell culture period.

Sterilization system:
A. 90 degree high temp. high humidity sterilization system (RHP)

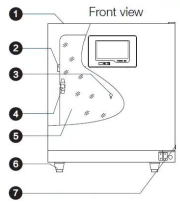
It can thoroughly sterilize the chamber (Including temp. sensor, CO_2 concentration sensor, fan, shelves and brackets etc.) with high temp and high humidity.
It eliminates bacteria, mold, mycoplasma etc. microbiology that pollute the microorganisms cell culture and provides a safe experiment environment.
Simple operation: The user just presses the sterilization start button on the control panel, the sterilization system starts to thoroughly sterilize the chamber (including temp. sensor, CO_2 concentration sensor, fan, shelves and brackets etc.)
The whole sterilization cycle is shortened to 18 hours.

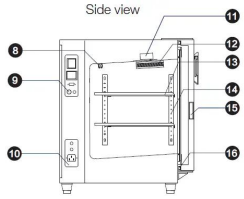


Safe Functions:

High and low temp. and over temp. alarm
Door open too long alarm
Door temp. sensor failure alarm
Chamber sensor failure alarm
CO_2 condensation too high or too low alarm
Disinfection and sterilization status reminder
Independent temp. limiter alarm
Power off alarm
Over temp. sensor failure alarm

CO2 incubator structure:

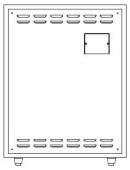




Outer
Door switch
Test hole
Glass door knob
Glass door
Adjustable feet
Door open collision block
Ultraviolet lamp

CO_2 switch box
Main power input
Fan
HEPA
Shelves
Adjustable shelve holder
Door handle
Magnetic door seal

Back view



CO2 INCUBATOR AIR JACKETED BFN1F1

CO2 INCUBATOR

It represents a new era in advanced incubator design for your most demanding and highly critical applications like stem and primary cells in leading research, pharmaceutical and clinical laboratories.
By combining advanced technology advancements, It delivers the reliable performance, enhanced simplicity, and complete contamination control required to support an optimal cell growth from basic research to demanding, leading-edge applications.

Why we choose hot-air sterilization
Hot-air sterilization is carried out under 160~180° C.The incubator's sterilization program consists of three phases:
I. heat up to maximum temperature,
II. expose at maximum temperature and
III. cool down to incubation
CO2 incubators provide an optimal cell growth environment by maintaining a humidified atmosphere with temperature and carbon dioxide control. These conditions not only promote cell growth, but also the growth of contaminants, like bacteria, yeast, molds and other fungi. The contamination-reducing features of an incubator's functional design and the effectiveness of its
A self-decontamination system must be considered in choosing an instrument.

Airflow distribution:
In-chamber fan gently and evenly distributes clean, humidified air throughout the chamber ensuring all cell experience the same conditions without the threat of desiccation.
Airflow design is incorporated to deliver faster recovery and uniformity for consistent results, avoiding unwanted sample variation. Incoming air first travels over a direct heated water reservoir resulting in 50% faster humidity recovery than with a standard water pan
design.
Complete contamination control required to support an optimal cell growth from basic research to demanding, leading-edge applications.
Drift-free CO2 sensor:

SPECIFICATIONS

Model	BFN1F1
Construction	
--Chamber Volume (Liter/cu.ft)	185
--Net Weight	80kg (176 lbs)
--Interior Material	Stainless steel, type 304, mirror finish
--Exterior Material	Cold-rolled steel, powder coated
Temperature	
--Temp. Control method	Direct heat & air jacket (DHA)
--Temp. Control Sensor	Pt1000
--Temp. Control (°C)	±0.1
--Temp. Range (°C)	Ambient +3 to 55
--Temp. uniformity (°C)	±0.3
De-contamination	
--Cycle Temp.	180°C dry heat disinfection on all internal surfaces
CO2	
--CO2 Control (% CO2)	±0.1%
--Inlet Pressure (MPa)	0.1
--CO2 Sensor	TCD or IR
--CO2 Range (% CO2)	0~20
Humidity	
--Humidifying System	Special designed water reservoir
--Relative Humidity (% RH)	≥95%
--Water Reservoir Volume (L)	3
Shelves	
--Shelf Dimensions (WxD, mm)	453x433
--Standard/Maximum Quantity	3, 10
--Shelf Construction	Stainless steel, type 304, mirror finish, perforated, adjustable
--Max. Load per Shelf	10 kg (22.05 lbs)
Rated Power	≤650VA±10%
Power Supply	220V/50Hz(Standard), 110V/60Hz (Optional)
Alarm System	Power interruption, High/low temperature, Deviation of CO2, RH, Door ajar, Independent overheat protection
Data Output	RS232, remote alarm contacts, USB
Alt Name	CO2 Incubator

FEATURES

Airflow distribution:
In-chamber fan gently and evenly distributes clean, humidified air throughout the chamber ensuring all cell experience the same conditions without the threat of
desiccation.
Airflow design is incorporated to deliver faster recovery and uniformity for consistent results, avoiding unwanted sample variation.
Incoming air first travels over a direct heated water reservoir resulting in 50% faster humidity recovery than with a standard water pan
design.
Complete contamination control required to support an optimal cell growth from basic research to demanding, leading-edge applications.

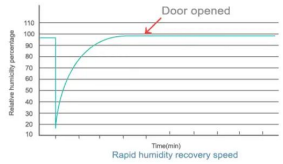
Drift-free CO2 sensor:
CO2 sensors are positioned in the chamber to respond quickly to any deviations in desired conditions. Robust design improves stability and reliable service life, eliminating the need for removal during sterilization and separate cleaning. On-demand auto-start, auto-zero and auto-cal facilitates easy start-up and calibration.

Variable oxygen control:
Oxygen controlled models are equipped with advanced zirconium oxide sensor
Hypoxic: For primary cell, stem cell and embryo research applications.
Hyperoxic: For research in lung, retina and other sensitive tissues.

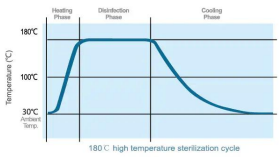
Oxygen levels in Human Tissues	
Lungs	14%
Arteries	12%
Liver, Heart, kidneys	4-12%
Eyes	1-5%
Brain	0.5-7%
Bone Marrow	0-4%

Condensation-free humidification system:
Integrated 3 liter reservoir provides stable, high relative humidity levels, allowing faster recovery and more space for samples than traditional pan designs Water reservoir maximizes relative humidity without condensation ensuring a dry inner chamber, preventing contaminants.

Condensation-free water Reservoir System



Contamination control:
180°C high temperature sterilization cycle offers simplified cleaning protocols to protect your valuable cultures, eliminate the loss of time and resources while providing convenient added security for your research work. The simple routine protects the incubator air, all chamber surfaces and humidification water from biological contaminants and eliminates the need for separate autoclaving of parts.



HEPA air filtration for air purity:

Airborne particulates are a primary source of contamination in most lab settings.
The in-line HEPA filter cleans the airstream of microbes and particles protecting cultures from contamination.
Entire chamber air volume is filtered every 60 seconds to achieve ISO class 5 cleanliness.

Simple operation:
Main screen with a bright LCD display provides at-a-glance monitoring even from a distance.
The intuitive interface provides complete data visibility to monitor all incubator interaction, featuring door-mounted position for easy access, on-screen menu prompts, error and usage logs, data logging, performance trend graphing.
'On-demand data and error logs provide a downloadable history of activity and conditions including parameter changes and alarms.

Optimized chamber design:
Easy-to-clean, coved-corner interior with convenient access port.
No special tools required for assembly and disassembly of interior components

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