



CO2 INCUBATOR AIR JACKETED BGI2D2 (BCAJ-6602)

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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 CO₂ 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.

CO₂ concentration sensor:

SPECIFICATIONS

Model	BGI2D2
Old Model	BCAJ-6602
Electrical requirement	AC220V/50Hz
Input power	750W
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	190L
Chamber size WxDxH (mm)	520x530x690
Overall size WxDxH (mm)	708x710x1030
Standard shelves qty	3 pcs
Sterilization	90 degree centigrade and UV sterilization + HEPA high efficient filter
Alt Name	Air jacket CO ₂ incubator

FEATURES

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CO₂ 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 CO₂ 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 CO₂ concentration data.

If open the door for 30s and close the door, within 3 min the CO₂ 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 CO₂ 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 CO₂ 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 CO₂ 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:

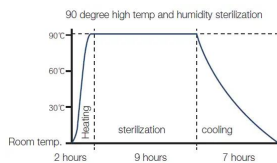
A. 90 degree high temp. high humidity sterilization system (RHP)

It can thoroughly sterilize the chamber (Including temp. sensor, CO₂ 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, CO₂ 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

CO₂ condensation too high or too low alarm

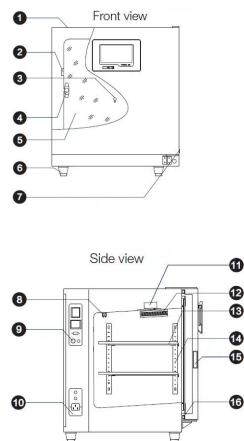
Disinfection and sterilization status reminder

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

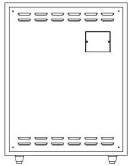
Adjustable feet

Door open collision block

Ultraviolet lamp

CO₂ switch box
Main power input
Fan
HEPA
Shelves
Adjustable shelf holder
Door handle
Magnetic door seal

Back view



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