

N-BIOTEK **CO₂** INCUBATOR

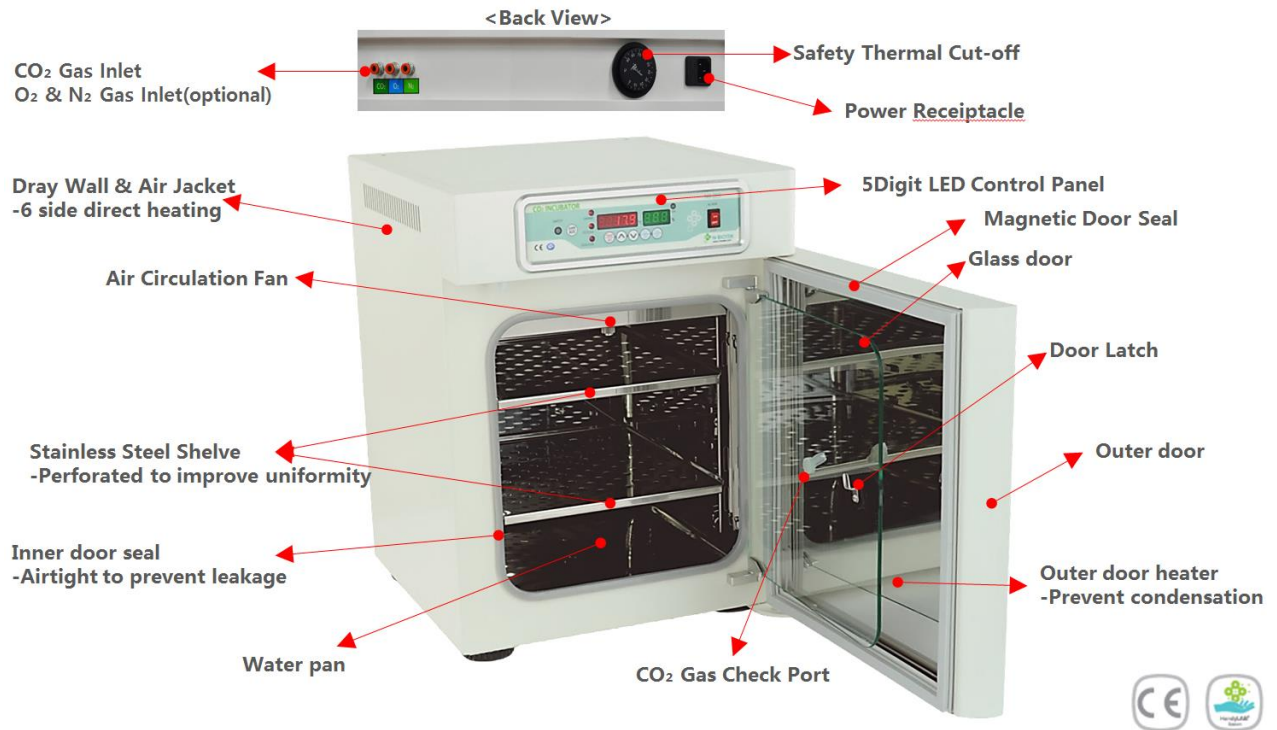
6 Side Direct Heat & Air Jacket Type CO₂ Incubators



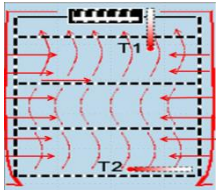
N-BIOTEK

Leading Life science

N-BIOTEK produces various CO₂ Incubators from small personal size to large capacity. Its 6 Side Direct heating and internal air circulation fan make uniform temperature distribution and it enables fast heat-up & fast temperature recovery. Precise Infrared CO₂ sensor detects CO₂ density accurately regardless of changing in temperature and humidity. A variety of options provides users of various choices to customize an incubator to fit their needs .



❖ FEATURES



Natural Air Convection with Assisted Air Circulation Fan

Given nature of heat-flow, heating control is designed to give lower heat in upper part than bottom part and air fan mixes air for uniform temperature.



6 Side Direct Heating

All 6 sides of chamber are heated by heating wires. It allows fast heat-up and fast temp recovery. Such all sides heating also maximizes temperature uniformity.



Stainless Steel Chamber Round corner for easy cleaning

The chamber is made of quality stainless steel to minimize corrosion. Chamber edge is round for easy cleaning.



Dual Beam IR CO₂ sensor

It detect CO₂ precisely regardless of changing in temperature or humidity. Detection respond is also fast and it is helpful to control CO₂ accurately.



Safety Thermal Cut-Off

Built-in Thermal cut off detects abnormal overheating and cut the heating not to rise in case of some errors in temperature control.



Perforated Shelves

To make inside air circulated well for temperature uniformity, all inside shelves are perforated.



Natural Humidification

Stainless steel water tray is placed at bottom of chamber. The water in tray is heated by bottom heater and humidify naturally inside.



Multiple Indicators & Alarm System

Multiple pilot lamps show conditions of heater, gas injection, overheating. Built-in alarm system detects some errors in CO₂, Temperature, door and warn it with audible alarm or signal.

Customize your incubator with various options!



UV Sterilization

4W UV lamp can be installed above chamber ceiling and beside air circulation fan. The UV light is not reached to cells in vessels so it keeps lighting during culture.



25mm Access Port with Silicon cap

Its standard position is at left side but, it can be placed at other position upon demand. To use some electric device inside chamber or to put some wires of monitoring sensors, the access port is useful.



Split Inner Glass Doors

It is helpful to make Low Gas Consumption, Low Heat Loss, Fast Recovery. Each glass doors is airtight with individual silicon sealing. 2 or 5 Divided Door for 42L Incubator 6 Divided Door for 179L Incubator



Lower Temperature by Peltier

Adding Peltier enables little lower temperature setup in 42L, 179Liter CO₂ Incubator. Maximum 18°C at 25°C room temperature is available. In this condition, humidity is low.



Oxygen Control

For Hypoxia or Hyperoxia condition, oxygen control option is necessary. The range of oxygen control is 1% to 95%. Precise Zirconia oxygen sensor detect CO₂ accurately and it is used.



100% Cooper Chamber

Customizing an incubator with cooper chamber is available in NB203, NB203XL. Cooper maximizes anti-bacterial condition. Under this option, all shelves and covers(except water tray) inside are made of 100% cooper.



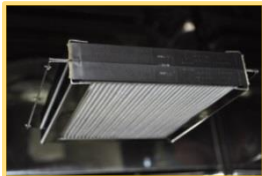
ANTI-BACTERIAL AIR FITLER

It is equivalent to the HEPA filter but, it is used to filter the air inside chamber. It is located below air circulation fan. Filter installation is easy but, adding its holder is factory option.



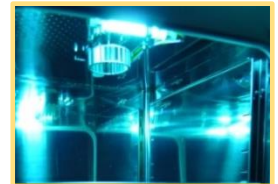
125°C Hot Air Decontamination

Maximum 125°C Dry Hot Air Decontamination is available in NB203&NB203XL model. Total 8 hours automatic process includes both heating-up and cooling down phase. No need to remove any sensors for DECON.



HEPA Filter

179Liter CO₂ Incubator with 6 Split Inner Glass Door



UV LAMP



Access Port



Copper Chamber



2 Divided Inner Glass Door For 42L Incubator



Humidity Control Tray



Built-in Shaker

❖ Ordering information of Additional Factory Options

203-ING	5 or 2 DIVIDED DOOR FOR NB-203	203-STAKIT	Stacking Kit for NB203
203XL-ING	6 DIVIDED DOOR FOR NB-203XL	203XL-STAKIT	Stacking Kit for NB203XL
203-HOLE	ACCESS PORT	203-113	Humidity Display(Not Control, Just display)
203-UV	UV Sterilization	203-HUM	Controllable humidity system in NB203, 203XL
203-HEPA	HEPA Filter for NB203XL or NB203	203XXXL-HUM	Controllable humidity system in NB203XXXL
203-O2	Oxygen Control Option(1% ~ 95%)	203-114	Caster Base Tray for 179Liter Size Incubator
203-125	125°C Hot Air Sterilization for NB-203, NB203XL	203-COP	Copper Chamber for 203
203XL-125	125°C Hot Air Sterilization for 179 Liter Incubator,	203XL-COP	Copper Chamber for 203XL
203-SH	SHELVE for NB-203	203-COOL	Peltier Cooling for NB203, 42Liter CO ₂ Incubator
203XL-SH	SHELVE for NB-203XL		
203XXXL-SH	SHELVE for NB-203XXXL		
203XL-COOL	Peltier Cooling Option for 179Liter CO ₂ Incubator		



Specification

Items	Unit	NB-203	NB-203XL	NB-203XXXL
Temperature				
range	°C	Ambient +5°C to 60°C	Ambient +5°C to 60°C	Ambient +5°C to 60°C
accuracy	°C	±0,25°C at 37°C	±0,25°C at 37°C	±0,5°C at 37°C
increment	°C	0,1°C	0,1°C	0,1°C
control		Microprocessor Digital PID	Microprocessor Digital PID	Microprocessor Digital PID
CO₂				
range	°C	0% to 20%	0% to 20%	0% to 20%
accuracy		±0,1% at 5% at 37°C	±0,1% at 5% at 37°C	±0,1% at 5% at 37°C
increment		0,1%	0,1%	0,1%
sensor		IR CO ₂ Sensor	IR CO ₂ Sensor	IR CO ₂ Sensor
control		Microprocessor	Microprocessor	Microprocessor
inlet pressure range		0,3~0,5bar	0,6~0,7bar	0,9~1,0bar
Door				
out door		Silicon Packing Magnet Door	Silicon Packing Magnet Door	Silicon Packing Magnet Door
inner door		Tempered Glass Door	Tempered Glass Door	Tempered Glass Door
Operating panel		Individual 2 Channel Touch Button	Individual 2 Channel Touch Button	Individual 2 Channel Touch Button
Display		LED Display	LED Display	LED Display
Jacket type		Dry Wall Type (6 sides heat)	Dry Wall Type (6 sides Heat)	Dry Wall Type (6 sides Heat)
Chamber material		Stainless Steel (304)	Stainless Steel (304)	Stainless Steel (304)
Chamber volume	liter	42 liter	179 liter	850 liter
Number of shelves		2ea (Max shelves 4ea)	3ea (Max Shelves 8ea)	3ea (Max Shelves 15ea)
Chamber dimension	mm	320(W)x350(D)x370(H)mm	473(W)x528(D)x710(H)mm	698(W)x799(D)x1528(H)mm
Overall dimension	mm	408(W)x482(D)x550(H)mm	560(W)x665(D)x945(H)mm	820(W)x950(D)x1840(H)mm
Power	V/Hz	110/220V,50/60Hz,400W	110/220V,50/60Hz,600W	110/220V,50/60Hz,1,2kW
Weight	kg	35kg	78kg	266kg

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