

PRODUCT

Incubators >

IR concentrators

Live cell station

Shaker & Water bath

Other

**TRUST** MANAGEMENT  
**VALUE** MANAGEMENT  
**HAPPINESS** MANAGEMENT  
**SHARING** MANAGEMENT

N-BIOTEK

Incubators

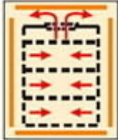





HOME > PRODUCT > Incubators

- Stackable Incubator
- Portable Mini CO2
- CO2 Incubator
- CO2 Incubator with built-
- CO2 Shaking Incubator
- CO2 Shaking Incubator
- General Incubator
- General Incubator with
- Hybridization Incubator
- Large Benchtop Shaking
- Mini Shaking Incubator
- Refrigerated Incubator
- Refrigerated Shaking
- Incubator
- with built-in Shaker
- Incubator (vertical type)

**CO<sub>2</sub> Incubator** ( NB-203/NB-203XL/NB-203XXL )

This incubator is ideal for experiments involving cultivation of animal cells, sperm / ovum, anaerobic cells, all types of microbe cells, hatching/germinating and special tissues.



NB-203	NB-203XL	NB-203XXL
 <p><b>Natural Air and Moisture Convection</b> Air and Moisture in chamber are distributed naturally by 6 side heating, air circulation fan.</p>	 <p>Perforated Shelves are good for natural air flows and are made of stainless steel which are resistant against rust and contamination.</p>	
 <p>Rounded Conner allows easy cleaning. Entire chamber is made of stainless steel(SUS304)</p>	 <p>Access Port(Optional) for additional device used in chamber.</p>	
 <p><b>CO<sub>2</sub> INCUBATOR</b> <b>Alarm System</b> Buzzer to alarm low or high deviation of CO<sub>2</sub>, Temperature.</p>	 <p>Over Heating Limit. Heating is automatically cut by safety device when temperature control failed or there is excessive heating over set point.</p>	

### Features

#### 6-Side Direct Heating System

The electrical heating wire is covered on all sides of chamber providing uniform stability fast heat-up and fast temperature recovery. The three parts of the heating section are controlled and calibrated individually by three temperature sensors.

#### Dry-Wall and Air Jacket

Warm Air from the heating wire is preserved in the space between the chamber and its insulation. This helps the temperature recovered faster and minimizes heat loss. The dry-wall and insulation do not require regular maintenance.

#### DUAL BEAM IR CO<sub>2</sub> Sensor

This sensor quickly and precisely detects CO<sub>2</sub> gas regardless of temperature and humidity. Natural Humidification using Water Tray  
The heater on bottom side warm the water in tray and it makes humidification. Circulation fan deliver the moisture formed from the water in entire chamber.

#### Natural Humidification Using Water Tray

The heater on the bottom side warms the water in tray to humidify the incubator. A circulation fan delivers the moisture formed to the entire chamber.

#### No Condensation

Heating with a front door heater & frame heater prevent condensation in the chamber and on the glass door.

#### Microprocessor PID Control

An intelligence control automatically monitors CO<sub>2</sub> density and temperature and features an alarm.

#### Decontamination(Optional).

HEPA filtration of gas supply inlets is an optional feature.

#### Various Options

Refer to page 21, various option are available including decontamination and oxygen control.

#### Customization

Any user desiring customized function or design should contact the international sales department for the best possible customization solution.





25mm Access Port is available at the left side.  
(Upon ordering and additional charge)



O2 control  
Multi Gas Supply(N2& O2) comes with all CO2 incubators. However, the NB-203 is recommendable due to High Gas consumption when performing Hypoxia or Hyperoxia.



UV sterilization  
4W UV light is placed on the chamber ceiling and beside the circulation fan. The UV light does not reach the sample and sterilization is operated during culturing.



Maximum 125°C Dry Hot Air in NB-203, NB-203XL  
Maximum 100°C Dry Hot Air in NB-203XXL.  
No need to remove the IR CO2 sensor



Peltier is applicable in NB-203 & NB-203XL. -5°C from room temperature with maximum low temperature of 20°C.



Monitoring System  
The monitoring system uses an Internet network, to observe the status of equipments in real time even remotely from a distance.



NBIOTEK customized chamber with oxidizing copper/copper-plated chamber for enhanced contamination protection.



Lower Gas Consumption  
Lower Heat Loss and Faster Recovery  
Easy Classification of samples.  
5 Split Door for NB-203, 6 Split Door for NB-203XL

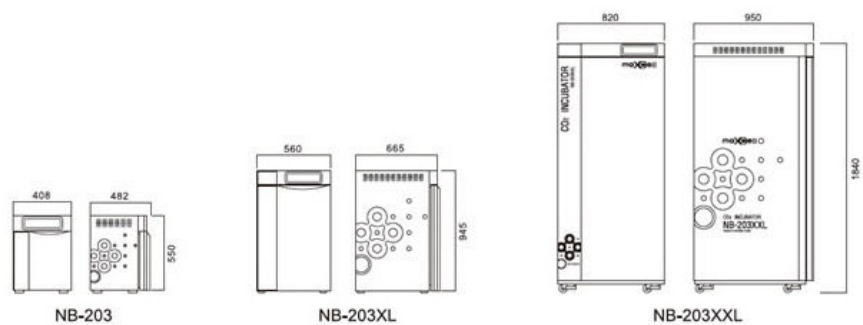
### SPLIT INNER DOOR



### Specification

Items	NB-203	NB-203XL	NB-203XXL
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<b>Temperature</b>			
range	Ambient +5°C to 60°C	Ambient +5°C to 60°C	Ambient +5°C to 60°C
accuracy	±0.25°C at 37°C	±0.25°C at 37°C	± 0.5 °C at 37°C
increment	0.1°C	0.1°C	0.1°C
control	Microprocessor Digital PID	Microprocessor Digital PID	Microprocessor Digital PID
<b>CO2</b>			
range	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 CO2 sensor	IR CO2 sensor	IR CO2 sensor
control	Microprocessor	Microprocessor	Microprocessor
inlet pressure range	0.3~0.5 bar	0.6~0.7bar	0.9~1.0bar
<b>Door</b>			
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
<b>Operating panel</b>	Individual 2 Channel Touch Button	Individual 2 Channel Touch Button	Individual 2 Channel Touch Button
<b>Display</b>	LED Display	LED Display	LED Display
<b>Jacket type</b>	Air jacket type (6 sides heating)	Air jacket type (6 sides heating)	Air jacket type (6 sides heating)
<b>Chamber material</b>	Stainless Steel (304)	Stainless Steel (304)	Stainless Steel (304)
<b>Chamber volume</b>	42 liter	179 liter	850 liter
<b>Number of shelves</b>	2ea (Max shelves 4ea)	3ea (Max Shelves 8ea)	3ea (Max Shelves 15ea)
<b>Chamber dimension</b>	320(W)x350(D)x370(H)mm	473(W)x528(D)x710(H)mm	698(W)x799(D)x1528(H)mm
<b>Overall dimension</b>	408(W)x482(D)x550(H)mm	560(W)x665(D)x945(H)mm	820(W)x950(D)x1840(H)mm
<b>Power</b>	110/220V, 50/60Hz, 400W	110/220V, 50/60Hz, 600W	110/220V, 50/60Hz, 1.2kW
<b>Weight</b>	35kg	78kg	266kg





## Accessories

				
<b>GAS Regulator</b>	<b>CO<sub>2</sub> Anal</b>	<b>SHELVES</b>	<b>ROLLER BASE</b>	<b>STACKING KIT</b>
NB-203 NB-203XL NB-203XXL	NB-203 NB-203X NB-203XXL	NB-203 NB-203XL NB-203XXL	NB-203 NB-203XL	NB-203 NB-203XL

**000 «Диаэм»**

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