

Large Capacity CO₂ Incubator

Maximized cell culture platform



Realize your large scale cell culture needs with the great platform, Max Cell™.

N-BIOTEK 880 liter large-capacity CO₂ incubator, Max Cell™ provides the optimal environment for your large scale cell culture needs in one big platform. Its 6-side direct heating and optimal air circulation system enable to maintain excellent uniformity of temperature, humidity and CO₂ even under full container loading. It is specially optimized for the use of large cell culture containers like Corning Cell Stack and Nunk Cell Factory. With this one big platform, stacking two incubators is not needed anymore.



<Rear Top of Incubator>



**Top side of Chamber
Airflow Duct and Sensors**



**Dual Beam IR CO₂ Sensor
(Center at the top of chamber)**

**Segmented Inner Glass Door
(Refer to Page.5)**

**Glass Door Latch
(Magnet built-in to hold)**

Stainless Steel Chamber

CO₂ Sample Port



**Stainless Steel Shelf
(Easy-Sliding)**

**Inner Door Sealing
(In front of shelf)**

Magnetic Sealing Gasket



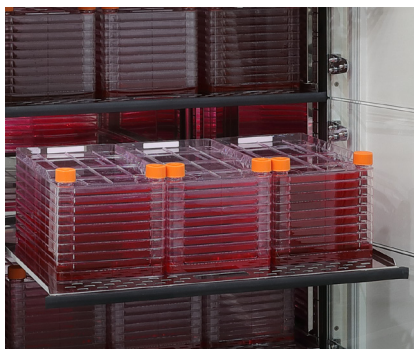
Water Tray

4 x Air Circulation Fans

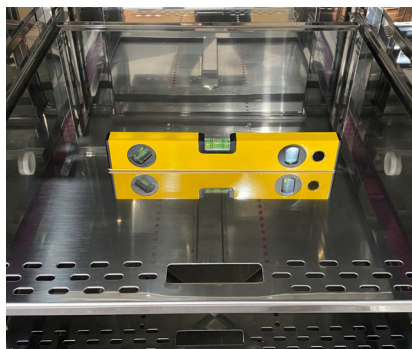


Optimized for large scale cell container

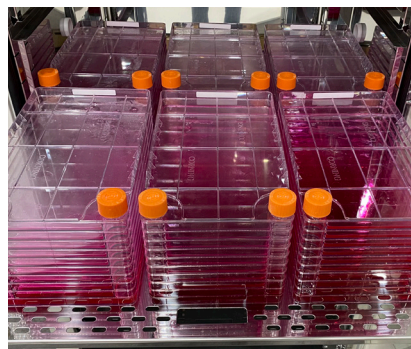
Maximum 6 x Corning Cell Stack or Nunk Cell Factory is available on a shelf,
 Totally, 30 x 10 layer Cell stack containers loadable in an incubator.



Easy Sliding & Solid Shelf
 The Grip to hold is in front of shelf



Evenly Leveled Shelf
 Main area is not perforated to enhance flatness.

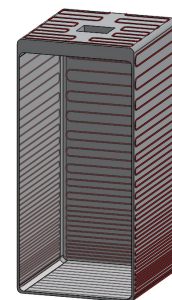


Optimized Size for Large Container
 6 x 10 Layer Cell Stack Containers in a shelf

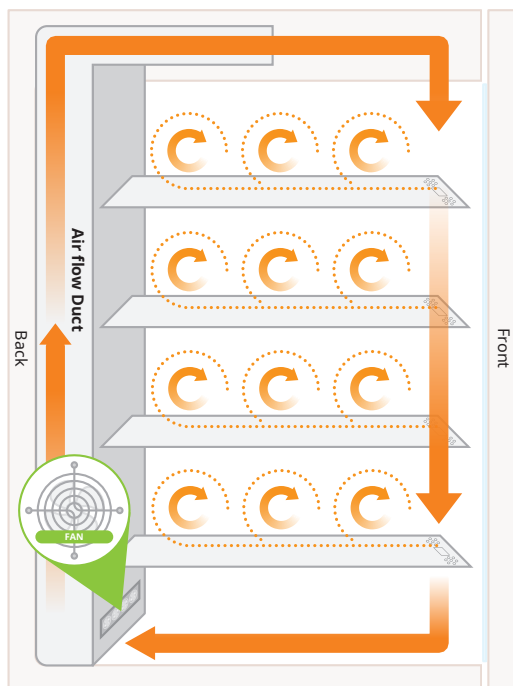
Excellent Temperature Uniformity & Rapid Heating for Fast Recovery

by 6 side direct heating and 4 Air Circulation Fans

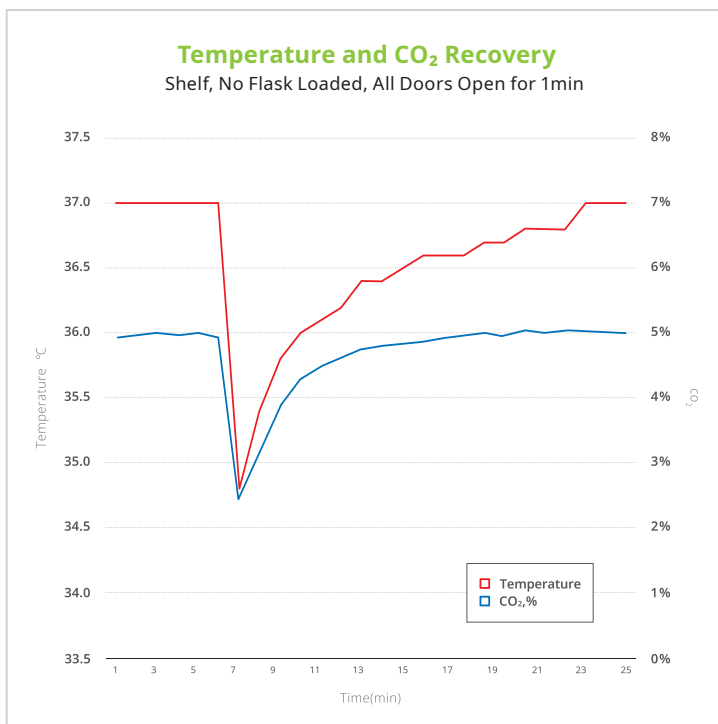
Four air circulation fans are installed at bottom side of air-duct that is mounted on rear wall in chamber. Such fans move the air from down to top through the air-duct and direct airflow from top to down. It eventually distributes the air including heat, CO₂, humidity evenly throughout the big chamber. Heating to chamber is designed to generate heat from all sides for rapid & uniform heating.



6 Side Heating Chamber



Air Flow through air duct and 4 fans



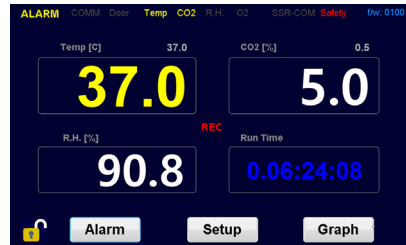
7 Inch Full Color LCD Touch Panel

Easy Setup, Clear View, Data Recording, Real-time Information

- Internal Memory recordable for 6months and USB 3.0 for longer data recording & extraction
- Microprocess PID control, Screen Lock, Alarm Message, Real-time Monitoring Graph



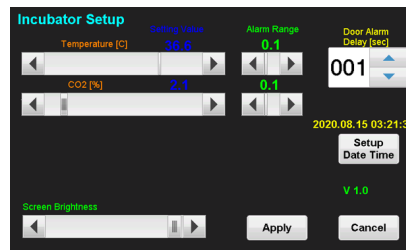
Tilted Screen for easy View



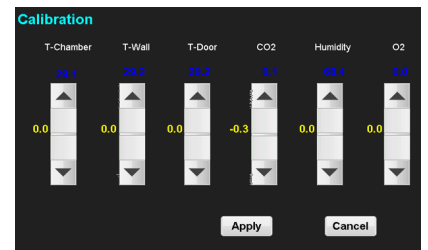
Main View



Temp, CO₂, RH Graph



Setup View



Calibration Menu

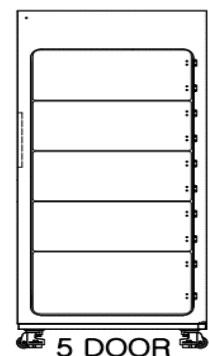
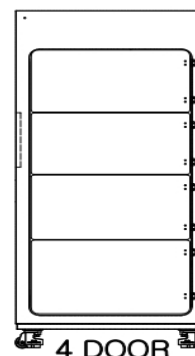
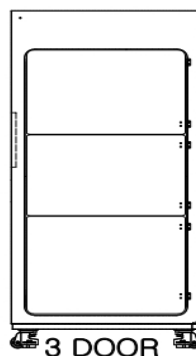
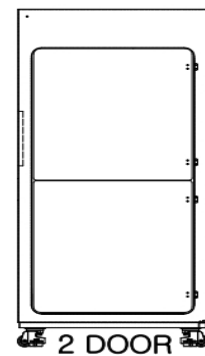
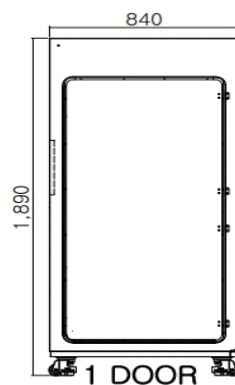
Various Composition and Divided Glass Door Options

-25 Positions of Shelf and 5 Types of Glass doors(Also, customization available)



Two Divided Glass Door

Shaker and various size Containers Mixed





Ordering Information

| Model | Description |
|---------------|--|
| NBT203XXL-1D | 1 Full Inner Glass Door Model |
| NBT203XXL-2D | 2 Divided Inner Glass Door Model |
| NBT203XXL-3D | 3 Divided Inner Glass Door Model |
| NBT203XXL-4D | 4 Divided Inner Glass Door Model |
| NBT203XXL-5D | 5 Divided Inner Glass Door Model |
| T203XXL-HGLAS | Heated Glass Window Option |
| T203XXL-SHE | Shelf, 1 piece |
| T203XXL-SHEG | Shelf with Front Sealing Gasket, 1 piece |
| T203XXL-HUM | Forced Humidification Control |
| T203XXL-O2 | Low Oxygen Control(1 ~ 19%) |

Specification

| Model | NBT203XXL-1D | NBT203XXL-2D | NBT203XXL-5D |
|----------------------------|--|--------------|--------------|
| Chamber Volume | 880Liter | | |
| Number of Inner Glass Door | Full 1 Inner Glass Door | 2 Divided | 5 Divided |
| External Dimension | 840(W) x 930(D) x 1890(H)mm | | |
| Internal Dimension | 720(W) x 800(D) x 1530(H)mm | | |
| Temperature Range | Ambient +7°C to 60°C * | | |
| Temp. Uniformity | ±0.5°C at 37°C | | |
| Temp. Control | ±0.1°C | | |
| Temp. Safety | Independent Analogue Thermostat | | |
| Jacket / Heating | Air Jacket, Dry Wall / 6 Side Direct Heating | | |
| Fan / Air flow | 4 x Fans at back bottom-most / Vertical Laminar Airflow | | |
| Temperature Safety | Independent Over Temperature Thermostat | | |
| CO ₂ Range | 1 ~ 20% | | |
| CO ₂ Sensor | Dual Beam Infrared(IR) CO ₂ Sensor | | |
| CO ₂ Accuracy | ±0.1% | | |
| Humidity | 80 ~ 90% with Water Tray OR Optional Ultra Sonic Humidifier | | |
| Display | 7inch Full Color LCD Touch Pan | | |
| Number of Shelves | 0 (Separate Purchase) | 3 | 5 |
| Maximum Number of Shelf | 25 | | |
| Shelf Size | 670(W) x 750(D)mm | | |
| Chamber & Shelf Material | Stainless Steel 304 | | |
| Outer Door | Powder coated Heated Door (left open) / with Heated Glass Window(Optional) | | |
| Alarm | Temperature, CO ₂ , Door Open, Sensor Failure | | |
| Electric Safety Device | Fuse (built-in with one spare) | | |
| Power Supply | 100V ~ 120V, 50 ~ 60Hz / 220 ~ 230V, 50 ~ 60Hz | | |
| Weight | About 300 ~ 310kg | | |

*Specifications are subject to change without notice.

*Specifications are based on the condition at 22 ~ 25°C(RT), Setting 37°C & 5% CO₂, No load, 220V-60Hz