



Bench-top Automated CO₂ Incubator

NeXCell R Series



Model NR28

Details:

- Suitable for combination with the Cell Imager, and Automated Liquid handler system.
- There are 4 different plate capacities, 28, 48, 100 or 150 plates.
- Precise control of the environment, Temperature and CO₂, optional low O₂.
- Internal HEPA filter which gives ISO Class 5 (CLASS100) air quality within 10 minutes.
- The built-in Color LCD touch screen allows full control and management all of features.
- The cassette hotel can be easily removed and replaced.
- The incubator can accommodate a range of different culture vessels such as microplates and Petri dishes and T25/T75/T175 flasks.
- The automated shutter minimizes environment deviation in the chamber.
- Communication Interface: RS232 (RS485), Ethernet.

Option/Specialties:

- Low O₂ control (Using N₂ gas).
- Optional extended sliding plate stage.
- Automatic ultrasonic humidity control device.
- VHP device for H₂O₂ decontamination.
- Side Gate model: Shutter and sliding plate stage located on right hand side.
- Optional integrated barcode reader.
- The incubator can be connected to a Cell processing Isolator or Bio Safety Cabinet.



Specification:

Items	Description			
Model	NR28	NR48	NR100	NR150
Supply voltage	AC100V 50/60Hz 500VA		AC100V 50/60Hz 600VA	AC100V 50/60Hz 800VA
Outer dimensions (mm) *	740(W) × 607(D) × 668(H)		740(W) × 607(D) × 1030(H)	980(W) × 816(D) × 1030(H)
Inner dimensions (mm)	620(W) × 475(D) × 391(H)		620(W) × 475(D) × 721(H)	857(W) × 653(D) × 721(H)
Chamber volume (L)	115		210	400
Approx. Weight (kg)	85		120	200
Slider Length (mm)	240			
Body material /paint	Chamber: SUS304/ Uncoated #200 or more Exterior: Cold-rolled steel / Baked powder coat finish			
Outer door	Left hinged / Right hinged (Factory option)			
Humidification	Natural evaporation with water pan (Ultrasonic Humidifier is available)			
Air circulation	Circulation with DC blower (through a HEPA filter)			
CO ₂ gas supply	99.7% or more/Supply gas pressure = 0.1 ±0.05MPa			
N ₂ gas supply	99.9% or more/Supply gas pressure = 0.1 ±0.05MPa			
Number of slots	7 slots / 4 pos.	12 slots / 4 pos.	25 slots / 4 pos.	25 slots / 6 pos.
Capacity	28	48	100	150
Type of storage	Fixed	Short cassette	Long Cassette	Long Cassette
Container type	150mm/100mm petri dishes, micro plates, T25/T75 Flask T175, HyperFlasks (only available for NR150)			
Environment	Temp.15–30 °C / RH 20–70%			

* Outer dimension does not include sliding plate Stage

Items		Description
Temperature control	Sensor	Pt100 (Class A)
	Control range (°C)	Room temperature +8 – +30 (up to 50 °C)
	Control accuracy (°C)	(1) 37.0 °C ±0.5 °C (2) RT+30.0 °C (Up to 50 °C)
	Uniformity (°C)	Control point (center of the chamber) ±1.0
CO ₂ control	Sensor	NDIR
	Control range (%)	0–20.0
	Control accuracy (%)	±0.5
O ₂ control	Sensor	Zirconia system
	Sets range (%)	1.0–20.0
	Control accuracy (%)	±1.0
Average time for Robotics		Max 25 sec. for loading/unloading

RT: Standard temperature is between 22.0–25.0 °C