

## New Functions /New Generation Incubator

Color display, voice guidance, IR sensor, Auxiliary chamber heater, Automated calibration



CDI-165/CDI-165M



CDI-325/CDI-325M



Digital display

### ■ Wide-format color LCD display

- All the settings, error descriptions can be monitored at a glance.
- 3 formats for user-entered notes.

### ■ Voice guidance

A synthesized voice announces warnings and alarms. It is also possible to record the user's voice and play it at pre-set time and certain events.

### ■ IR sensor

IR sensor is unaffected by temperature and humidity. It is ideal for applications that require frequent door openings and changes of the temperature and humidity settings.

### ■ Automated calibration

The calibration of CO<sub>2</sub> and O<sub>2</sub> concentrations is automatically carried out at pre-set time.

### ■ Auxiliary chamber heater

An auxiliary chamber heater helps to return the inside temperature quickly after every door openings. The heating rate for returning temperature is programmable.

### ■ Right/Left hand door Mounting

The door can be mounted to open either from the right or left (Factory option)

### ■ 10-day data storage

Storing and printing out all of the 8 channel data sets for the past 10 days.

### ■ Serial interface

Maximum of 200 incubators can be monitored by one PC.

### ■ Options

- Oxygen control
- Humidity sensor
- Shelf door
- Gas guard unit
- Air dust filter
- Printer (print 8 channel data in each 20 minutes, for total 10 days)
- Analog output (8 channels)
- Data logging system

		(unit=mm)			
Models		CDI-165	CDI-325	CDI-165M	CDI-325M
Dimensions	Outer Dimensions	W645×D625×H955	W645×D625×H1910	W645×D625×H955	W645×D625×H1910
	Chamber Dimensions	W500×D480×H680	W500×D480×H680×2	W500×D480×H680	W500×D480×H680×2
	Capacity	163L	163L×2	163L	163L×2
	Shelf Dimensions	W430×D430×H15			
Temperature	Shelves per Chamber	5 (Max 20) ※1	10 (Max 40) ※2	5 (Max 20) ※1	10 (Max 40) ※2
	Heating Method	Water-Jacket			
	Jacket-water Capacity	41L	41L×2	41L	41L×2
	Control	Digital PID control			
CO <sub>2</sub> Control	Temperature Range	Ambient +5°C~50°C			
	Temperature Accuracy	±0.1°C			
	Uniformity	±0.1°C			
	Sensor	IR sensor			
O <sub>2</sub> Control	Control	DUTY control			
	CO <sub>2</sub> Range	0~19.9%			
	CO <sub>2</sub> Accuracy	±0.1°C			
	Humidification Method	Water tray			
Shelf Door	RH	>95%RH (CO <sub>2</sub> 5%)		>95%RH (CO <sub>2</sub> 5%, O <sub>2</sub> 5%)	
	Sensor	Optional		Galvanic fuel-cell	
	Control	Optional		On/OFF control	
	O <sub>2</sub> Range	Optional		2% to 80% (CO <sub>2</sub> 5%)	
Gas Guard System	O <sub>2</sub> Accuracy	Optional		±0.5°C	
	Shelf Door	Optional		Standard: Select from 6,4,3,2	
	Gas Guard System	Optional (Cylinder exchange device)			
	Humidity Sensor	Optional (Low humidity alarm)			
Printer Interface	Printer Interface	RS-232C Up to 8 channels, 20 min.interval for 10 days			
	Printer	Optional			
	Serial Interface	RS-485 Able to connect up to 30 incubators (PC, I/Fboard, software are options)			
	Analog Output	Optional at shipping (Up to 8 channels)			
Power	Right Hand Door	Factory option			
	Usable temperature range	5°C to 30°C (on use at 37°C)			
	Usable humidity range	30%RH~80%RH			
	Power	AC100~230V 50/60Hz			
Weight	Weight	95kg	190kg	95kg	190kg

※ 1 38 shelves when air dust filter attached  
 ※ 2 19 shelves when air dust filter attached