



## Tri-Gas Incubator (CO<sub>2</sub> / O<sub>2</sub> / N<sub>2</sub>)

The Tri-Gas incubator is ideal for the experiments of the cultivation of animal cells, sperm/ovum, anaerobic cells, all sorts of microbe cells, hatching/germinating and special tissues.

### Options

Customize your incubator with these options



#### Access port

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



#### UV sterilization

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



#### Peltier cooling system

With Peltier cooling system in WCI-40T & WCI-180T, It can work below room temperature.



#### Copper chamber

WIGGENS customize chamber with copper plate chamber for enhanced contamination protection.



#### O<sub>2</sub> Control

Multi Gas Supply (N<sub>2</sub> & O<sub>2</sub>) is available for all CO<sub>2</sub> incubators.



#### Hot air sterilization

Maximum 125°C Dry Hot Air in WCI-40T, WCI-180T  
No need to remove IR CO<sub>2</sub> sensor



#### Monitoring System

Analog connection port has been designed to observe the status of equipments in real time even in the far distance.



#### Lower gas consumption. Lower heat loss.

Faster recovery easy classification for various samples.  
5 Split Door for WCI-40T  
6 Split Door for WCI-180T



### Features

Fast heat-up, fast-recovery, reliable control

#### 6 Sides Direct Heating System

The electric heating wire is covered on all sides of the chamber which makes good uniformity and provides fast heat-up & temperature recovery.  
3 parts of heating section are controlled and calibrated individually by 3 individual temperature sensors.

#### Dry Wall and Air Jacket

Warm air from heating wire is preserved in space between the chamber and the insulation layer. It helps temperature recover faster and minimize heat loss.  
Drywall withinsulation requires no regular maintenance.

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

Fast & precise detection for CO<sub>2</sub> gas regardless of temperature and humidity.

#### Natural Humidification using Water Tray

The heater on bottom warms the water in tray and it makes humidification. The circulation fan delivers the moisture formed from the water to the entire chamber.

#### No Condensation

Heating by front door heater & frame heater prevents condensation in the chamber and on the glass door.

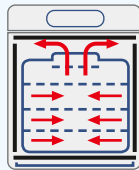
#### Microprocessor PID Control

Intelligence Control for CO<sub>2</sub> density, Temperature, Alarm, Automatic Decontamination (Optional).

#### HEPA filtration

### Gentle Air and Moisture Convection

Gentle air and moisture convection air and moisture in the chamber are distributed naturally by 6 side heating and the air circulation fan.



### Over Heating Limit

Heating is automatically cut by safety device when temperature control failed or there is excessive heating over set point.



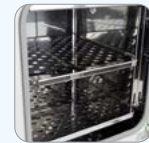
### Easy to clean

Rounded corner allows easy cleaning. The entire chamber is made of stainless steel (SUS304)



### Perforated Shelves

Perforated shelves are good for natural air flows and are made of stainless steel which are resistant against rust and contamination.



### Alarm System

Buzzer to alarm low or high deviation of CO<sub>2</sub>, Temperature.



## Specifications

Model	WCI-40T	WCI-180T	WCI-850T	
Volume [L]	40	180	850	
Temperature	Range [°C ]	Ambient+5~60	Ambient+5~60	Ambient+5~60
	Accuracy [°C ]	±0.1 (37°C)	±0.1 (37°C)	±0.1 (37°C)
	Resolution [°C ]	0.1	0.1	0.1
	Control	Digital PID	Digital PID	Digital PID
CO <sub>2</sub>	Range	0% ~ 20%	0% ~ 20%	0% ~ 20%
	Accuracy	±0.1% ( 5% / 37°C)	±0.1% ( 5% / 37°C)	±0.1% ( 5% / 37°C)
	Resolution	0.1%	0.1%	0.1%
	Sensor	IR CO <sub>2</sub> Sensor	IR CO <sub>2</sub> Sensor	IR CO <sub>2</sub> Sensor
O <sub>2</sub>	Control	Microprocessor	Microprocessor	Microprocessor
	Inlet pressure range [bar]	0.5~0.6	0.6~0.7	0.9~1.0
	Range	0.6~85%	0.6~85%	0.6~85%
Sensor	Zirconium dioxide sensor	Zirconium dioxide sensor	Zirconium dioxide sensor	
Display	LED Display	LED Display	LED Display	
Operating panel	Individual 2-Channel Touch Button	Individual 2-Channel Touch Button	Individual 2-Channel Touch Button	
Jacket type	Dry Wall Type (six-side gradient heating design)			
Chamber material	Stainless Steel (304)			
IP code	IP20	IP20	IP20	
Number of shelves	2/4	3/8	3/15	
Chamber dimension [mm]	320x350x375	528x473x710	700x800x1530	
Overall dimension [mm]	420x460x570	560x620x945	820x930x1840	
Weight [kg]	35	78	266	
Order No. for standard version	W6021040	W6021180	W6021850	
Order No. for dry heat sterilization version	W6022040	W6022180	W6022850	