

Incubator / Oven

Accurate temperature control technology
Compressor cooling system
Peltier cooling system
Internal circulation to ensure temperature uniformity

CO₂ INCUBATOR

RT. +5~60°C / 40 - 180 - 260 - 650 - 850 - 1200L

PELTIER-COOLED CO₂ INCUBATOR

20~60°C / 40 - 180 - 260 - 650 - 850 - 1200L

PORTABLE MINI CO₂ INCUBATOR

+15~45°C / 15L

CO₂ INCUBATOR WITH COPPER CHAMBER

RT. +5~60°C / 180L

TRI-GAS INCUBATOR [N₂ / O₂ / CO₂]

RT. +5~60°C / 40 - 180 - 850L

CONSTANT TEMPERATURE INCUBATOR

RT. +5~60°C / 40 - 100 - 150 - 260 - 650 - 850 - 1200L

COMPRESSOR-COOLED INCUBATOR

RT. +5~60°C / 150 - 250 - 400L

PELTIER-COOLED INCUBATOR

+4~60°C / 15 - 50L

+15~60°C / 100 - 150L

FORCED CONVECTION OVEN

RT. +10~160°C / 50 - 100 - 150L



CO₂ Incubator

The 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.

Features

Fast Heat-Up, Fast-Recovery, Stable Control

6 Sides Direct Heating System

Electric heating wire is covered on all sides of the chamber which makes stable uniformity and provides fast heat-up & temperature recovery. 3 parts of heating section are controlled and calibrated individually by 3 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. Dry wall with insulation requires no regular maintenance.

DUAL BEAM IR CO₂ Sensor

Fast & precise detection for CO₂ gas regardless of temperature and humidity.

Natural Humidification Using Water Tray

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



Specifications

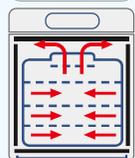
Temp. Range:	RT. +5~60°C
Temp. Resolution:	0.1°C
Dry Heat:	Up to 120°C
Temp. Control:	Digital PID
CO ₂ Range:	0% ~ 20%
CO ₂ Accuracy:	±0.1% (5% / 37°C)
CO ₂ Resolution:	0.1%
CO ₂ Sensor:	IR CO ₂ Sensor
Display:	LED Display
Operating panel:	Individual 2-Channel Touch Button
Jacket type:	Air Jacket Type (6 sides heat)
Chamber material:	Stainless Steel (304)

Model	WCI-40	WCI-120
Order No. Standard	W6011040	W6011120
Order No. Sterilization	W6012040	W6012120
Chamber volume	40L	120L
Temperature Stability [°C]	±0.1°C (37°C)	±0.1°C (37°C)
Temp. Uniformity	±0.3°C (37°C / RT.20°C)	±0.3°C (37°C / RT.20°C)
Heating Capacity [W]	320	320
CO ₂ Inlet pressure range	0.3~0.5bar	0.3~0.5bar
Number of shelves	2/4	3/8
Chamber dimension [WxDxH]	320x350x375mm	480x470x520mm
Overall dimension [WxDxH]	420x460x570mm	580x560x765mm
Weight [kg]	38	72



Alarm System

Buzzer to alarm low or high deviation of CO₂, Temperature.



Gentle Air and Moisture Convection

Natural Air and Moisture Convection, Air and Moisture in chamber are distributed gently by 6-side heating and air circulation fan.



Easy to clean

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



Over Heating Limit

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



Perforated Shelves

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



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 CO₂ density, Temperature, Alarm, Automatic Decontamination (Optional).



HEPA filtration of the chamber

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 sample and sterilization is operated during culturing.



Maximum 125°C dry hot air sterilization
No need to remove IR CO₂ 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-40
6 Split Door for WCI-180

Model	WCI-180	WCI-260	WCI-650	WCI-850	WCI-1200	
Order No.	Standard	W6011180	W6011260	W6011650	W6011850	W6011122*
	Sterilization	W6012180	W6012260	W6012650	W6012850	-
Chamber volume	180L	260L	650L	850L	1200L	
Temperature Stability [°C]	±0.1°C (37°C)	±0.1°C (37°C)	±0.1°C (37°C)	±0.1°C (37°C)	±0.5°C (37°C)	
Temp. Uniformity	±0.3°C (37°C / RT.20°C)	±0.4°C (37°C / RT.20°C)	±0.5°C (37°C / RT.20°C)	±0.5°C (37°C / RT.20°C)	±0.5°C (37°C / RT.20°C)	
Heating Capacity [W]	320	610	1100	1400	1600	
CO ₂ Inlet pressure range	0.3~0.5bar	0.6~0.7bar	0.7~1.0bar	0.7~1.0bar	0.7~1.0bar	
Number of shelves	3/8	3/8	3/15	3/15	0/15*	
Chamber dimension [WxDxH]	473x528x710mm	530x590x900mm	700x650x1430mm	700x800x1530mm	868x720x1927mm	
Overall dimension [WxDxH]	560x620x945mm	630x680x1125mm	820x780x1740mm	820x930x1840mm	990x855x2123mm	
Weight [kg]	80	115	230	260	323	