

Incubator

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

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

Low temperature incubator +4~60°C / 150 - 250 - 400L

Peltier-cooled incubator +4~6 0°C / 15 - 50L +15~60°C / 100 - 150L

CO₂ incubator Rt. +5~60°C / 40 - 120 - 180 - 260 - 650 - 850 - 1200L

Peltier-cooled CO₂ incubator 20~60°C / 40 - 120 - 180 - 260 - 650 - 850L

Portable mini CO_2 incubator +15~45°C / 15L

 CO_2 incubator with copper chamber $\ensuremath{\mathsf{RT.}}\xspace$ +5~60°C / 180L

Tri-gas incubator [N₂ / O₂ / CO₂] RT. +5~60°C / 40 - 180 - 850L

Constant temperature and humidity chamber Plant Growth Chamber



Constant Temperature Incubator

Versatile air-jacketed incubators.

Specially designed for uniform temperature distribution and minimal sample contamination caused by external air intrusion.

Features

- > Applicable in life science, pharmacy, medical science, chemistry, biology, and related fields for storage of samples which need constant temperature and incubation
- > Digital temperature display and control
- $\,>\,$ PID controller for temperature stability and safety protection
- > Very good heating characteristics
- > Ecologically friendly
- > Easy to clean
- > Timer function
- > Can be opened anytime when necessary
- > When the temperature exceeds set levels and reaches the set safety value, an alarm activates, and the incubation process stops
- > The material of the observation window is tempered glass, which has good safety and sealing characteristics
- > The magnetic door and high-quality gasket can absorb external shocks and comprise excellent sealing characteristics
- > Easy-to-clean stainless steel shelves with good air permeability and adjustable height
- > Upon opening the incubator, the fan and heating device stop operation
- > Alarm starts for sample protection when the door is open for more than 60 seconds



Model	WH-05	WH-10	WH-15	WH-25
Order No.	W6031050	W6031100	W6031150	W6031250
Volume [L]	50	100	150	260
Temperature Range [°C]	RT. + 5~65	RT. + 5~65	RT. + 5~65	RT. + 5~65
Temperature uniformity of working area [°C]	$<\pm0.2$ at 37°C and 25°C RT	$<\pm0.2$ at 37°C and 25°C RT	$<\pm0.2$ at 37°C and 25°C RT	$<\pm0.2$ at 37°C and 25°C RT
Temperature Stability [°⊂]	±0.1 at 37°C	±0.1 at 37°C	±0.1 at 37°C	±0.1 at 37°C
Temperature Controller	Digital Display with PID automatic	regulation, Button Control		
Timer	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min
Safety	Independent safety temperature p	rotection, Open door alarm function		
Heating Capacity [W]	340	340	340	610
Shelves [included / max.]	2/3	2/4	2/8	3/8
Inner Dimensions [WxDxH in mm]	345 x 368 x 375	480 x 480 x 495	500 x 480 x 620	530 x 590 x 900
Outer Dimensions [WxDxH in mm]	440 x 480 x 610	560 x 560 x 760	560 x 580 x 880	630 x 680 x 1125
Weight [kg]	35	50	65	115
Power supply	AC 220~240 V, 50/60 Hz	AC 220~240 V, 50/60 Hz	AC 220~240 V, 50/60 Hz	AC 220~240 V, 50/60 Hz
Number of internal power outlets	-	-	-	-





Alarm System

Temperature Alarm, Independent safety temperature protection



Easy to Clean

Rounded Conner 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 is resistant to rust and contamination.

Materials	
Housing	Powder coated stainless steel
Interior	Stainless steel
Shelves	Stainless steel
Inner transparent door	High temperature resistant glass, Thickness: 5 mm

Only for WH-1200

Temp. Recovery*	14 minutes at 37°C after door open for 5 minutes
Temperature Safety	5 Side direct heating with forced air flow by 4 circulation fans
Door	Front door (left open) with viewing glass window





Model	WH-400	WH-650	WH-850	WH-850X	WH-1200
Order No.	W6031400	W6031650	W6031850	W6031850	W6031122
Volume [L]	400	650	850	850	1200
Temperature Range [°C]	RT. + 5~65	RT. + 5~65	RT. + 5~65	RT. + 5~65	RT.+7~+60°C at 25°C RT
Temperature uniformity of working area [°C] at 37°C and 25°C RT	<±0.5	<±0.5	<±0.5	<±0.5	±0.5~±0.7
Temperature Stability [℃]	±0.1 at 37°C	±0.1 at 37°C	±0.1 at 37°C	±0.1 at 37°C	±0.1 at 37°C
Temperature Controller	Digital Display with PID au	tomatic regulation, Button (Control		
Timer	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min
Safety	Independent safety tempe	rature protection, Open doo	r alarm function		
Heating Capacity [W]	700	1100	1400	1400	1600
Shelves [included / max.]	3/12	3/15	3/15	0/15	0/35
Inner Dimensions [WxDxH in mm]	600 x 630 x 1100	700 x 650 x 1430	700 x 800 x 1530	868 x 720 x 1530	868 x 720 x 1927
Outer Dimensions [WxDxH in mm]	750 x 730 x 1430	820 x 780 x 1740	820 x 930 x 1840	990 x 855 x 2030	990 x 855 x 2123
Weight [kg]	160	230	260	299	323
Power supply	AC 220~240 V, 50/60 Hz	AC 220~240 V, 50/60 Hz	AC 220~240 V, 50/60 Hz	AC 220~240 V, 50/60 Hz	AC 220~240 V, 50/60 Hz
Number of internal power outlets	-	-	-	-	3

Low Temperature Incubator

Superb low temperature incubator by noiseless compressor cooling system

Features

- > Applicable in life science, pharmacy, medical science, chemistry, biology, and related fields for storage of samples which need a constant temperature and for incubation.
- > Heating function start and duration can be pre-set
- > Temperature control programs: Temperature programs can be divided into 9 sections and for every section temperature and duration can be set individually
- > 3 pre-set often used temperatures can be recalled anytime when necessary
- > Temperature measure unit can be set as either °C or ^oF
- > When the temperature exceeds set levels and reaches the set safety value, an alarm activates, power is cut off, and the incubation process stops
- > With tempered glass window, the examination of samples is easy and convenient, avoiding unnecessary disruptions of the incubation process
- > The stainless steel shelves have a good air permeability, are easy to clean and can be adjusted in height
- > In case of an unexpected power breakdown the incubator offers two working options: automatic re-operation and automatic stop
- > When opening the incubator, the fan and heating device stop operation. After one minute without closing the door an alarm starts
- > Incubators use heat transfer method for circulation. In a separated room outside the work space it uses heat exchange, In the working space it uses natural convection and forced circulation
- > The circulation method will not induce air pollution and can guarantee exact temperature distribution

Accessories

Order No.	Name	Description		
W6052501	Stainless steel shelves	Perforated to improve uniformity, Suitable for WH-11C / 21C		OFE 310
W6052502	Stainless steel shelves	Perforated to improve uniformity, Suitable for WH-40C		
W6011816	Holes for auxiliary monitoring	Diameter of 30mm, on the left side of the incubator		Wildens Wii-4oc
N6051502	Socket inside the chamber	Optional, factory installation	WIGGENS	
W6051503	LED light	At the top of the chamber		

Model	WH-11C	WH-21C	WH-40C
Order No.	W6055150	W6055250	W6055400
Temperature Control Method	Forced circulation method (fans integrate	d outside of the work space)	
Volume [L]	150	250	400
Temperature Range [°C]	+4 ~ 60	+4 ~ 60	+4 ~ 60
Temperature Stability [°⊂]	±0.1	±0.1	±0.1
Temperature uniformity of working area [°C]	±1 (37°C)	±1 (37℃)	±1 (37°C)
Temperature Controller	Digital Display with PID automatic regula	tion, push button	
Timer	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min
Heating Capacity [W]	450	450	450
Max. Cooling Capacity [W]	350	350	400
Shelves [included / max.]	2/5	3/7	3/7
Inner Dimensions [W×D×H in mm]	550 x 500 x 610	550 x 500 x 1000	630 x 600 x 1100
Outer Dimensions [W×D×H in mm]	660 x 605 x 1020	660 x 605 x 1415	750 x 730 x 1550
Weight[kg]	95	120	160
Power supply	AC 220 ~ 240V, 50/60 Hz	AC 220 ~ 240V, 50/60 Hz	AC 220 ~ 240V, 50/60 Hz



Peltier-cooled Incubator

This series of incubators combines heating and peltier cooling systems, a perfect development from environmentally friendly and energy efficient heating and cooling technologies that facilitate excellent control accuracy and minimal fluctuations.

Features

- > Applicable in life science, pharmacy, medical science, chemistry, biology, and related fields for storage of samples which need a constant temperature and for incubation.
- > Heating function start and duration can be pre-set
- > There are four temperature programs available for editing, and each program can be edited in 5 steps
- > Four temperature can be preset for quick changeover
- $\,>\,$ Temperature measure unit can be set as either °C or $^{\circ}F$
- > When the temperature exceeds set levels and reaches the set safety value, an alarm activates, power is cut off, and the incubation process stops
- > With tempered glass window, the examination of samples is easy and convenient, avoiding unnecessary disruptions of the incubation process
- > The stainless steel shelves have a good air permeability, are easy to clean and can be adjusted in height
- > When temperature deviation occurs, the BIAS function sets in, which makes operation convenient
- > In the case of an unexpected power breakdown the incubator offers two working options: automatic re-operation and automatic stop
- > When opening the incubator, the fan and heating device stop operation. After one minute without closing the door an alarm sets in
- > Incubators use heat transfer method for circulation. In a separated room outside the work space it uses heat exchange, In the working space it uses natural convection and forced circulation
- > The circulation method will not induce air pollution and can guarantee exact temperature distribution



Model	WH-01	WH-02	WH-10P	WH-15P
Order No.	W6053015	W6053050	W6053100	W6053150
Temperature Control Method	Forced circulation			
Volume [L]	15	50	100	150
Temperature Range [°⊂]	+4 ~ 60 (at 20°C RT)	+4 ~ 60 (at 20°⊂ RT)	+10 ~ 60 (at 20°⊂ RT)	+10 ~ 60 (at 20°⊂ RT)
Temperature Stability [°C]	±0.1	±0.1	±0.1	±0.1
Temperature Controller	Touch Control; Digital Disp	lay with PID automatic regulation		
Timer	1 min ~ 999hr 59 min / con	tinuous		
Heating Capacity [W]	150	300	450	450
Max. Cooling Capacity [W]	350	350	350	350
Shelves [included / max.]	2/5	3/7	3/7	3/7
Inner Dimensions [W×D×H in mm]	200 x 320 x 240	370 x 410 x 390	480 x 480 x 500	505 x 480 x 620
Outer Dimensions [W×D×H in mm]	470x 400 x 430	460 x 630 x 610	620 x 600 x 800	620 x 625 x 920
Weight[kg]	24	35	65	80
Power supply	AC 220 ~ 240V, 50/60 Hz	AC 220 ~ 240V, 50/60 Hz	AC 220 ~ 240V, 50/60 Hz	AC 220 ~ 240V, 50/60 Hz

Incubator Accessories

Order No.	Item	Description	Suitable for	
Incubator shelf for holding cultures in the chamber				
W6030501	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel mate-rial can effectively resist corrosion and pollution, load 15kg	WH-05	
W6031001	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel mate-rial can effectively resist corrosion and pollution, load 15kg	WH-10	
W6031501	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel mate-rial can effectively resist corrosion and pollution, load 15kg	WH-15	
W6032501	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel mate-rial can effectively resist corrosion and pollution, load 15kg	WH-25	
W6034001	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel mate-rial can effectively resist corrosion and pollution, load 15kg	WH 400	
W6036501	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel mate-rial can effectively resist corrosion and pollution, load 15kg	WH-650	
W6038501	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel mate-rial can effectively resist corrosion and pollution, load 50kg	WH-850	
W6031221	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel mate-rial can effectively resist corrosion and pollution, load 25kg	WH-1200	
W6031222	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel mate-rial can effectively resist corrosion and pollution, load 50kg	WH-1200	
W6052501	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution	WH-11C/21C	
W6052502	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution	WH-40C	
Roller base:	Placed at the bott	com of the incubator for support and easy movement		
W6010402	Roller base	To move incubator easily	WH-05	
W6031002	Roller base	To move incubator easily	WH-10	
W6031502	Roller base	To move incubator easily	WH-15	
Stacking kit:	to stack and fix th	ne incubator		
W6031003	Stacking kit	To stack and fix the incubator	WH-10	
W6031503	Stacking kit	To stack and fix the incubator	WH-15	
W6011806	UV lamp	A 4W UV lamp is placed at the top of the chamber, next to the circulating fan. UV rays do not radiate the sample and can be sterilized during culture.	All series incubator	
W6011816	Holes for auxiliary monitoring	Diameter of 30mm (40mm customizable), for sampling, experimental verification and penetration of additional equipment power or signal cables in the incubator	All series incubator	
W6011809	Monitoring system	PC software, using Internet network connection, can monitor the working status of the incubator in real time remotely	All series incubator	
W6011809-1	Connecting wire	With anti-shedding interface for PC to the incubator, unit/m	All series incubator	
W6051502	Power socket in chamber	Three-jack socket, 220V, for power supply inside the chamber, not exceed 1000W	All series incubator	
W6051503	LED lamp	Installed on the top of the chamber, with an independent lighting switch	All series incubator	









Stacking kit













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 withinsulation requires no regular maintenance.

INCI IRA

DUAL BEAM IR CO₂ Sensor

Fast & precise detection for CO_2 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

CO, INCUBATOR



CO2 INCUBATOR

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CO2 INCUBATOR

Specifications

O1 INCUBATOR

RT. +5~60°C
0.1°C
Up to 125°C
Digital PID
0% ~ 20%
±0.1% (5% / 37°C)
0.1%
IR CO ₂ Sensor
LED Display
Individual 2-Channel Touch Button
Air Jacket Type (6 sides heat)
Stainless Steel (304)



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 gentlely 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 CO_2 density, Temperature, Alarm, Automatic Decontamination (Optional).



HEPA filtration of the chamber

Model WCI-180 WCI-260 WCI-650 WCI-850 WCI-1200 W6011122* Standard W6011180 W6011260 W6011650 W6011850 Order No. W6012180 W6012260 W6012650 W6012850 Sterilization Chamber volume [L] 180 260 650 850 1200 Temperature Stability [°⊂] ±0.1 (37°C) ±0.1 (37°C) ±0.1 (37°C) ±0.1 (37°⊂) ±0.5 (37°C) Temp. Uniformity [°⊂] (37°⊂ / RT.20°⊂) ±0.3 ±0.4 ±0.5 ±0.5 ±0.5 Heating Capacity [W] 320 610 1100 1400 1600 CO₂ Inlet pressure range [bar] 03~05 0.6~0.7 0.7~1.0 07~10 07~10 0/15* Number of shelves 3/8 3/8 3/15 3/15 Chamber dimension [WxDxH] mm 590x530x900 700x800x1530 868x720x1927 528x473x710 700x650x1430 Overall dimension [WxDxH] mm 990x855x2123 560x620x945 630x680x1125 820x780x1740 820x930x1840 323 Weight [kg] 80 115 230 260

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 CO_2 sensor



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

5 Split Door for WCI-40 6 Split Door for WCI-180

Monitoring System



Peltier-cooled CO₂ Incubator

This series of CO₂ incubators combines heating and peltier cooling systems, a perfect development from environmentally friendly and energy efficient heating and cooling technologies that facilitate excellent control accuracy and minimal fluctuations.

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JP	CCIII	cath	

Temp. Range:	+20~60°C
Temp. Resolution:	0.1°C
Dry Heat:	Up to 125°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:	Dry Wall Type (6 sides heat)
Chamber material:	Stainless Steel (304)



Model		WCI-40P	WCI-120P	WCI-180P
Order Ne	Standard	W6013040	W6013120	W6013180
Order No.	Sterilization	W6014040	W6014120	W6014180
Chamber v	olume [L]	40	120	180
Temperatu	re Stability [°⊂]	±0.1 (37°C)	±0.1 (37°C)	±0.1 (37℃)
Temp. Unifo	ormity [°C]	±0.3 (37°C / RT.20°C)	±0.3 (37°C / RT.20°C)	±0.3 (37°C / RT.20°C)
Heating Ca	pacity [W]	320	320	320
CO ₂ Inlet p	ressure range [bar]	0.3~0.5	0.3~0.5	0.3~0.5
Number of	shelves	2/4	3/8	3/8
Chamber d	imension [WxDxH] mm	320x350x375	480x470x520	528x473x710
Overall dim	ension [WxDxH] mm	420x520x570	580x560x765	560x680x945
Weight (k	g)	46	82	88
Model		WCI-260P	WCI-650P	WCI-850P
Order No.	Standard	W6013260	W6013650	W6013850
Chamber v	olume [L]	260	650	850
Temperatu	re Stability [℃]	±0.1 (37°C)	±0.1 (37°C)	±0.1 (37°C)
Temp. Unifo	ormity	±0.4 (37°C / RT.20°C)	±0.5 (37°C / RT.20°C)	±0.5 (37°C / RT.20°C)
Heating Ca	pacity [W]	610	1100	1400
CO ₂ Inlet p	ressure range [bar]	0.6~0.7	0.7~1.0	0.7~1.0
Number of	shelves	3/8	3/15	3/15
Chamber d	imension [WxDxH] mm	590x530x900	700x650x1430	700x800x1530
Overall dim	ension [WxDxH] mm	630x760x1125	820x860x1740	820x930x1840
Weight [kg]	125	260	296

Portable Mini CO₂ Incubator

Compact & Economical Mini CO₂ Incubator

Features

- > Portable Use with carrying handles (Car Plug available)
- > Economical Price & Compact Design for Personal Use
- $\,>\,$ Suitable size to use in work station or Clean bench
- $\,>\,$ Digital control for Temperature & CO_2
- > Forced Air Circulation by Fan
- > Excellent Temperature Uniformity
- > Quick recovery & Precise CO₂ control by IR Sensor
- > Cooling with very low noise
- > Two Stainless Steel Shelves (Standard)
- > Natural Humidification by Water Pan
- > Cooling & Heating by peltier
- > Stainless steel Water Tray
- > Power Plug & Car Jack





Accessories & Options

Order No.	Name	Model	
189231	Shelf (Stainless steel)	203M-SHELFSUS (220x162mm-WxD)	
189232	Measuring opening (Ø12mm)	203M-Hole	



Specifications

Product Name		WCI-15R
Chamber Volume [L]		15.2
	Range [°C]	15~ 45 (at Ambient 25°C)
Temperature	Accuracy [°C]	±0.25
	Control	Digital
	Range	0 ~ 20%
<u> </u>	Sensor	Dual Beam IR Sensor
CO ₂	Accuracy	±0.1% (5%)
	Gas Pressure	0.7Bar (Max.1Bar)
Humidity		Up to 80%
Display		LED Display
Cooling & Heating		By Peltier (thermoelectric elements)
Shelf		2, Stainless steel (standard) / Max (3ea)
In & Outside Material		ABS
Inside (W x Dx H mm)		224x 200 x 340
Outside (W x Dx H mm)		292x 333x 433
Weight [kg]		6.8
Power / Frequency		220V , 50/60Hz
Devuer Consumption		DC-COLD: 46W, HOT: 48W
rower consumption		AC-COLD: 63W, HOT: 63W
Order No.		189221

Copper Chamber CO₂ Incubator

copper plate inner chanler with better contamination effect, including all the features of the standard stainless steel version!

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Specifications		Model		WCI-40Cu	WCI-180Cu	
specifications			Standard	W6028040	W6028180	
Temp. Range:	RT. +5~60°C	Order No.	Starilization	WE029041	W/C020101	
Temp. Resolution:	0.1°⊂		Stermzation	VV0UZOU41	W0020101	
Dry Heat:	Up to 125°C	Chamber v	volume [L]	40	180	·······
Temp. Control:	Digital PID	Temperatu	ıre Stability [°⊂]	±0.1 (37℃)	±0.1 (37℃)	
CO ₂ Range:	0% ~ 20%	Tamp Unif	in semiture 1	0 2 /279C / DT 209C)	0 2/270C / DT 200C)	
CO ₂ Accuracy:	±0.1% (5% / 37°C)	Temp. Unit	ormity["C]	±0.3 (37°C / KI.20°C)	±0.3(37°C / KI.20°C)	
CO ₂ Resolution:	0.1%	Heating C	apacity [W]	320	320	
CO ₂ Sensor:	IR CO2 Sensor	CO ₂ Inlet p	pressure range [bar]	0.3~0.5	0.3~0.5	
Display:	LED Display	Number of	f shelves	2/4	3/8	
Operating panel:	Individual 2-Channel Touch Button			222 222 275		
Jacket type:	Dry Wall Type (6 sides heat))	Chamber o	dimension [WxDxH]mm	320x350x375	528x4/3x/10	
Inner chamber mate	erial: Copper plate	Overall din	nension [WxDxH]mm	420x460x570	560x620x945	
		Weight [kg]	38	80	



Tri-Gas Incubator (CO₂ / O₂ / N₂)

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.



O₂ Control Multi Gas Supply (N_ & O₂) is available fo

Multi Gas Supply ($N_2 \& O_2$) is available for all CO_2 incubators.



Hot air sterilization Maximum 125°C Dry Hot Air in WCI-40T, WCI-180T 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-40T 6 Split Door for WCI-180T

Features

-Gas Incubator

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 CO₂ Sensor

Fast & precise detection for CO_2 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 CO2 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 $\mbox{CO}_{\rm 2},$ Temperature.



Model		WCI-40T	WCI-180T	WCI-850T	
Volume [L]		40	180	850	
	Range [°C]	Ambient+5~60	Ambient+5~60	Ambient+5~60	
Tomporatura	Accuracy [°C]	±0.1 (37°C)	±0.1 (37°C)	±0.1 (37°C)	
remperature	Resolution [°C]	0.1	0.1	0.1	
	Control	Digital PID	Digital PID	Digital PID	
	Range	0% ~ 20%	0% ~ 20%	0% ~ 20%	
	Accuracy	±0.1% (5%/37°C)	±0.1% (5%/37°C)	±0.1% (5%/37°C)	
CO	Resolution	0.1%	0.1%	0.1%	
	Sensor	IR CO ₂ Sensor	IR CO ₂ Sensor	IR CO ₂ Sensor	
	Control	Microprocessor	Microprocessor	Microprocessor	
	Inlet pressure range [bar]	0.5~0.6	0.6~0.7	0.9~1.0	
0	Range	0.6~85%	0.6~85%	0.6~85%	
02	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)			
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	



CO₂ Incubator Accessories

Order No.	Item	Description	Suitable for		
Incubator shelf for holding cultures in the chamber					
189231	Stainless steel shelf		WCI15R		
W6010401	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 15kg	WCI-40 series		
W6011201	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 15kg	WCI-120 series		
W6011801	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 15kg	WCI-180 series		
W6011801 -U	Reinforced perforated shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 50kg	WCI-180 series		
W6011801-Cu	Perforated Shelf kit	Perforated shelf to improve uniformity, Copper material can effectively resist corrosion and pollution, load 15kg	WCI-180 Cu		
W6011801-Cu-U	Reinforced perforated shelf kit	Perforated shelf to improve uniformity, Copper material can effectively resist corrosion and pollution, load 50kg	WCI-180 Cu		
W6012601	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 15kg	WCI-260		
W6012601-U	Reinforced perforated shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 50kg	WCI-260		
W6016501	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 15kg	WCI-650		
W6016501-U	Reinforced perforated shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 50kg	WCI-650		
W6018501	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 15kg	WCI-850		
W6018501-U	Reinforced perforated shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 50kg	WCI-850		
W6031221	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 25kg	WH-850X WCI-1200 / WH-1200		
W6031222	Reinforced perforated shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 50kg	WH-850X WCI-1200 / WH-1200		
Roller base: Pla	aced at the bottom of the inc	ubator for support and easy movement			
W6010402	Roller base	To move incubator easily	WCI-40 series	-	
W6010602	Roller base	To move incubator easily	WCI-120 series		
W6011802	Roller base	To move incubator easily	WCI-180 series		
Stacking kit: to	stack and fix the incubator				
W6011803	Stacking kit	To stack and fix the incubator	WCI-180	Roller base	
W6012603	Stacking kit	To stack and fix the incubator	WCI-260		
W6012603Z	Stacking kit	To stack and fix the incubator	WCI-260Z		
HEPA: Filter of	gas circulation			Stacking kit	
W6011804	НЕРА	Set at the gas supply inlet to ensure the cleanliness of the gas in the incubator	WCI-40 / 120 / 180 / 260		
W6018504	НЕРА	Set at the gas supply inlet to ensure the cleanliness of the gas in the incubator	WCI-650 / 850		
W6012604	НЕРА	Set at the gas supply inlet to ensure the cleanliness of the gas in the incubator, can be sterilized by dry heat	WCI-40 / 180 / 260	НЕРА	
Water pan: Used for humidification during culture to reduce medium evaporation					
W6010405	Water pan	Moisture is generated by heating the water pan at the bottom, which is filled throughout the chamber by a circulating fan	WCI-40 / 120		
W6011805	Water pan	Moisture is generated by heating the water pan at the bottom, which is filled throughout the chamber by a circulating fan	WCI-180 / 180T / 180R/S	234	
W6012605	Water pan	Moisture is generated by heating the water pan at the bottom, which is filled throughout the chamber by a circulating fan	WCI-260		
W6016505	Water pan	Moisture is generated by heating the water pan at the bottom, which is filled throughout the chamber by a circulating fan	WCI-650 / 850	Water pan	

Order No.	Item	Description	Suitable for
UV lamp			
W6011806	UV lamp	A 4W UV lamp is placed at the top of the chamber, next to the circulating fan. UV rays do not radiate the sample and can be sterilized during culture.	All series incubator
Software			
W6011809	Monitoring system	PC software, using Internet network connection, can monitor the working status of the incubator in real time remotely	All series incubator
W6011809-01	Connecting wire	With anti-shedding interface for PC to the incubator, unit/m	All series incubator
Airway			
W6011810	Gas regulator	For pressure regulation from the air supply to the chamber	All series incubator
W6011816	Holes for auxiliary monitoring	Diameter of 30mm (40mm customizable), for sampling, experimental verification and penetration of additional equipment power or signal cables in the incubator	All series incubator
189232	Measuring hole	Used for measure sensor access on the side of the incubator	WCI-15R
WCI180065	Tubing	Outer diameter 6mm, inner diameter 4mm for $\rm CO_2$ tubing. Unit/meter	All series incubator
ZFC100-06	Filter	For incubator inlet air filtration, CO_2 filter	All series incubator
Divided door: t	o Reduce chamber's er	wironmental changes when the door is ope	ned
W6011812	Divided door	5-divided door glass door for easy individual experimental operations	WCI-40/40T
W6011813	Divided door	3-divided door glass door for easy individual experimental operations	WCI-180/180T
W6011814	Divided door	6-divided door glass door for easy individual experimental operations	WCI-180/180T
W6012606	Divided door	3-divided door glass door for easy individual experimental operations	WCI-260
W6012607	Divided door	6-divided door glass door for easy individual experimental operations	WCI-260
W6016506	Divided door	3-divided door glass door for easy individual experimental operations	WCI-650
W6016507	Divided door	5-divided door glass door for easy individual experimental operations	WCI-650
W6018506	Divided door	3-divided door glass door for easy individual experimental operations	WCI-850
W6018507	Divided door	5-divided door glass door for easy individual experimental operations	WCI-850
-	1 /		

Printer/power supply / LED lamp

W6011815	stylus printer	To print incubator data	All series incubator
W6051502	Power socket in chamber	Three-jack socket, 220V, for power supply inside the chamber, not exceed 1000W	All series incubator
W6051503	LED lamp	Installed on the top of the chamber, with an independent lighting switch	All series incubator



UV lamp



Gas regulator



Holes for auxiliary monitoring





