



# High Performance Laboratory Instrument

## Product Info



## JITM C GENES PVT LTD



An ISO 13485:2016  
Certified Company



An ISO 9001:2015  
Certified Company



<b>CO<sub>2</sub> Incubator</b>	.....	<b>3</b>
<b>CO<sub>2</sub> Incubator Shaker</b>	.....	<b>7</b>
<b>Incubator Shaker</b>	.....	<b>12</b>
<b>Water Bath Shaker</b>	.....	<b>24</b>
<b>High Speed Incubator Shaker</b>	.....	<b>25</b>
<b>Humidity Chamber</b>	.....	<b>27</b>
<b>Incubator</b>	.....	<b>29</b>
<b>High Efficiency Clean Benches</b>	.....	<b>31</b>
<b>Biological Safety Cabinet Type-A2</b>	.....	<b>33</b>
<b>Multi-Plate Trajectory Shaker</b>	.....	<b>34</b>
<b>Tissue Homogenizer</b>	.....	<b>35</b>
<b>Precision Water Bath</b>	.....	<b>34</b>
<b>Electrophoresis &amp; Western Blotting</b>	.....	<b>37</b>
<b>Electrophoresis Power Supplies</b>	.....	<b>42</b>
<b>Automatic Western Blot Processing</b>	.....	<b>44</b>
<b>Gel Shakers</b>	.....	<b>45</b>
<b>Dry Baths</b>	.....	<b>46</b>
<b>Microspectrophotometer</b>	.....	<b>47</b>



# CO<sub>2</sub> Incubator

For Static Cell Culture

## CG80 High Heat Sterilization CO<sub>2</sub> Incubator (85L)

CG80 CO<sub>2</sub> incubator adopts 6-sided direct heat control with temperature uniformity up to  $\pm 0.3^{\circ}\text{C}$ ; 140°C dry heat autoclaving function can achieve complete sterilization; infrared (IR) CO<sub>2</sub> concentration detector for precise control; touch control panel can easily view historical data curves and export historical data with one click. Built-in HEPA air filtration system, which provides continuous protection against harmful airborne contaminants in the culture environment.



### Product Features

- 6-side direct heat system temperature uniformity  $\pm 0.3^{\circ}\text{C}$
- 140°C high temperature dry heat sterilization
- ISO Class 5 HEPA filtered airflow system
- Circulating airflow technology ensures uniformity of temperature and humidity
- 304 stainless steel cavity with rounded corners, beautiful and easy to clean
- Removable shelf holder, no additional tools required
- 5-inch LCD touch screen, simple and intuitive to operate, data exportable



# CO<sub>2</sub> Incubator

For Static Cell Culture

## CG180

### High Heat Sterilization CO<sub>2</sub> Incubator (185L)

CG180 CO<sub>2</sub> incubator adopts 6-sided direct heat control with temperature uniformity up to  $\pm 0.3^{\circ}\text{C}$ ; 140 $^{\circ}\text{C}$  dry heat autoclaving function can achieve complete sterilization; infrared (IR) CO<sub>2</sub> concentration detector for precise control; touch control panel can easily view historical data curves and export historical data with one click. Built-in HEPA air filtration system, which provides continuous protection against harmful airborne contaminants in the culture environment.



## Product Features

- 6-side direct heat system temperature uniformity  $\pm 0.3^{\circ}\text{C}$
- 140 $^{\circ}\text{C}$  high temperature dry heat sterilization
- ISO Class 5 HEPA filtered airflow system
- Circulating airflow technology ensures uniformity of temperature and humidity
- 304 stainless steel cavity with rounded corners, beautiful and easy to clean
- Removable shelf holder, no additional tools required
- 5-inch LCD touch screen, simple and intuitive to operate, data exportable

# CO<sub>2</sub> Incubator

For Static Cell Culture

## CG240 High Heat Sterilization CO<sub>2</sub> Incubator (248L)


CG240 CO<sub>2</sub> incubator adopts 6-sided direct heat control with temperature uniformity up to  $\pm 0.3^{\circ}\text{C}$ ;  $140^{\circ}\text{C}$  dry heat autoclaving function can achieve complete sterilization; infrared (IR) CO<sub>2</sub> concentration detector for precise control; touch control panel can easily view historical data curves and export historical data with one click. Built-in HEPA air filtration system, which provides continuous protection against harmful airborne contaminants in the culture environment.



### Product Features

- 6-side direct heat system temperature uniformity  $\pm 0.3^{\circ}\text{C}$
- $140^{\circ}\text{C}$  high temperature dry heat sterilization
- ISO Class 5 HEPA filtered airflow system
- Circulating airflow technology ensures uniformity of temperature and humidity
- 304 stainless steel cavity with rounded corners, beautiful and easy to clean
- Removable shelf holder, no additional tools required
- 5-inch LCD touch screen, simple and intuitive to operate, data exportable

# CO<sub>2</sub> Incubator

Accessories	Accessory Name	Cat. No
	HEPA Filter	CHC015
	Access Port Filter	CHC005
	Shelf	CHC003

## Technical Details

Cat. No.	CG80	CG180	CG240
Control interface	5 inch LCD touch screen	5 inch LCD touch screen	5 inch LCD touch screen
Temperature Control Mode	PID control mode	PID control mode	PID control mode
Temperature Control Range	AmbientC+5°C~60°C	AmbientC+5°C~60°C	AmbientC+5°C~60°C
Temperature Display Resolution	0.1°C	0.1°C	0.1°C
Temperature Stability	±0.1°C	±0.1°C	±0.1°C
Temperature Field Uniformity	±0.3°C (at 37°C)	±0.3°C (at 37°C)	±0.3°C (at 37°C)
Heating Power	500 W	900 W	1000 W
Timer Function	0-999.9hours	0-999.9hours	0-999.9hours
Internal Dimensions (W x D x H)	440 x 400 x 500 mm	541 x 508 x 681 mm	630 x 600 x 670 mm
Dimension (W x D x H)	561 x 448 x 840 mm	660 x 640 x 1000 mm	800 x 660 x 1000 mm
Volume	85 L	185 L	248 L
CO <sub>2</sub> Measurement Principle	Infrared (IR) detection	Infrared (IR) detection	Infrared (IR) detection
CO <sub>2</sub> Control Range	0-20%	0-20%	0-20%
CO <sub>2</sub> display resolution	0.10%	0.10%	0.10%
CO <sub>2</sub> supply	0.5-1bar(0.05~0.1 MPa) recommended	0.5-1bar(0.05~0.1 MPa) recommended	0.5-1bar(0.05~0.1 MPa) recommended
Relative Humidity	Ambient humidity ~95% at 37°C	Ambient humidity ~95% at 37°C	Ambient humidity ~95% at 37°C
Temperature recovery	≤10 min (open door 30sec room temperature 25°C set value 37°C)	≤10 min (open door 30sec room temperature 25°C set value 37°C)	≤10 min (open door 30sec room temperature 25°C set value 37°C)
CO <sub>2</sub> concentration recovery time	≤5 min (open door 30sec set value 5%)	≤5 min (open door 30sec set value 5%)	≤5 min (open door 30sec set value 5%)
HEPA filtration	ISO Class 5, 5 minutes	ISO Class 5, 5 minutes	ISO Class 5, 5 minutes
Sterilization method	140°C high heat sterilization	140°C high heat sterilization	140°C high heat sterilization
Working environment temperature	10°C~ 30°C	10°C~ 30°C	10°C~ 30°C
Historical data storage	2,50,000 messages	2,50,000 messages	2,50,000 messages
Power supply	115V-230V±10%, 50~60Hz	115V-230V±10%, 50~60Hz	115V-230V±10%, 50~60Hz
Weight	68kg	108kg	116kg
Scalability	Up to 2 units can be stacked	Up to 2 units can be stacked	Up to 2 units can be stacked

# CO<sub>2</sub> Incubator Shaker

For Suspension Cell Culture

## CGS315

### Stackable CO<sub>2</sub> Incubator Shaker with UV Sterilization (50kg)

CGS315 is suitable for all types of cell culture, including CHO, hybridoma, mammalian cells, insect cells, etc. It is the most complete culture device for biological culture before entering fermenter culture. CGS315 features unique bearing technology for stable start-up and virtually noiseless operation, even with multiple layers stacked without abnormal vibration. The unique air circulation system ensures a high degree of temperature field uniformity. It can be stacked up to 2 or 3 layers for more space-saving laboratory use.

60x250ml or 40x500ml, 24x1000ml or 15x2000ml, 15x3000ml or 8x5000ml



7 inch LCD touch control panel



Door heating function



Intelligent remote control function (optional)



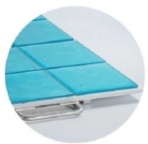
Built-in sliding blackout curtain



Multi-UV sterilization system

### Product Features

- 7 inch LCD touch control panel, simple and intuitive to operate
- Active humidity control function (optional)
- Built-in blackout curtain can be pushed and pulled easily to avoid light cultivation
- Intelligent remote control function (optional)
- Double glass doors for excellent insulation and safety
- Door heating function prevents fogging of the glass door
- Multi-UV sterilization system for better sterilization effect
- Environmentally friendly, odor-free sticky pad material
- All stainless steel rounded corners of the integrated cavity,
- Machine operation is nearly silent, multi-layer stacked high-speed operation without abnormal vibration
- Heatless waterproof fan ensures uniformity of temperature,
- Push-pull aluminum tray for easy placement of culture containers
- Flexible placement, stackable, effective in saving lab space
- Multi-safety design for user and sample safety



# CO<sub>2</sub> Incubator Shaker

For Suspension Cell Culture

## CGS160

### Stackable CO<sub>2</sub> Incubator Shaker with UV Sterilization (35kg)

CGS160 is suitable for all types of cell culture, including CHO, hybridoma, mammalian cells, insect cells, etc. It is the most complete culture device for biological culture before entering fermenter culture. CGS160 features unique bearing technology for stable start-up and virtually noiseless operation, even with multiple layers stacked without abnormal vibration. The unique air circulation system ensures a high degree of temperature field uniformity. It can be stacked up to 2 or 3 layers for more space-saving laboratory use.



35 x 250ml or 24 x 500ml 15 x 1000 ml or 8 x 2000 ml 6 x 3000 ml or 4 x 5000ml



7 inch LCD touch control panel



Door heating function



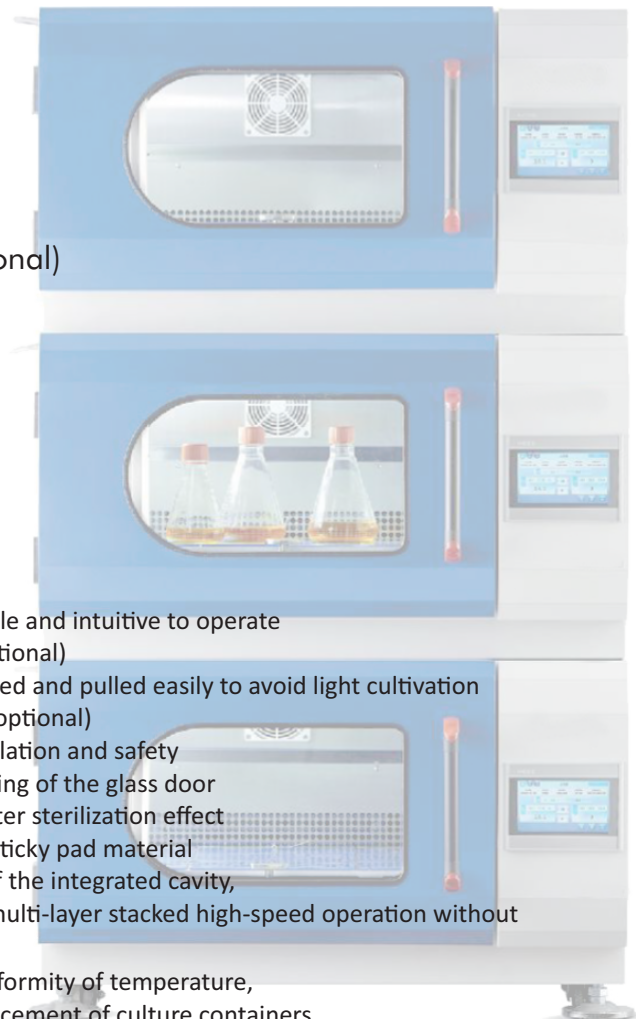
Intelligent remote control function (optional)



Built-in sliding blackout curtain



Multi-UV sterilization system



### Product Features

- 7 inch LCD touch control panel, simple and intuitive to operate
- Active humidity control function (optional)
- Built-in blackout curtain can be pushed and pulled easily to avoid light cultivation
- Intelligent remote control function (optional)
- Double glass doors for excellent insulation and safety
- Door heating function prevents fogging of the glass door
- Multi-UV sterilization system for better sterilization effect
- Environmentally friendly, odor-free sticky pad material
- All stainless steel rounded corners of the integrated cavity,
- Machine operation is nearly silent, multi-layer stacked high-speed operation without abnormal vibration
- Heatless waterproof fan ensures uniformity of temperature,
- Push-pull aluminum tray for easy placement of culture containers
- Flexible placement, stackable, effective in saving lab space
- Multi-safety design for user and sample safety



# CO<sub>2</sub> Incubator Shaker

For Suspension Cell Culture

## CGS310

### Stackable CO<sub>2</sub> Incubator Shaker with UV Sterilization (35kg)

CGS310 is suitable for all types of cell culture, including CHO, hybridoma, mammalian cells, insect cells, etc. It is the most complete culture device for biological culture before entering fermenter culture. CGS310 features unique bearing technology for stable start-up and virtually noiseless operation, The vertical design is more suitable for human use habits, and the clever design of the internal double tray culture not only expands the space, but also provides more choices for the user's use needs.

25 x 250 ml or 16 x 500 ml 9 x 1000 ml or 4 x 2000 ml 4 x 3000 ml or 4 x 5000 ml



7 inch LCD touch control panel



Door heating function



Intelligent remote control function (optional)



Ultra-quiet operation



Multi-UV sterilization system

## Product Features

- 7 inch LCD touch control panel, simple and intuitive to operate
- Active humidity control function (optional)
- Built-in blackout curtain can be pushed and pulled easily to avoid light cultivation
- Intelligent remote control function (optional)
- Double glass doors for excellent insulation and safety
- Door heating function prevents fogging of the glass door
- Multi-UV sterilization system for better sterilization effect
- Environmentally friendly, odor-free sticky pad material
- All stainless steel rounded corners of the integrated cavity,
- Machine operation is nearly silent, multi-layer stacked high-speed operation without abnormal vibration
- Heatless waterproof fan ensures uniformity of temperature,
- Flexible choice of double-layer shaking culture or one layer of shaking culture and one layer of static culture
- Small footprint, suitable for limited laboratory space
- Multi-safety design for user and sample safety

# CO<sub>2</sub> Incubator Shaker

For Suspension Cell Culture

## CGS70

### Stackable CO<sub>2</sub> Incubator Shaker with UV Sterilization (15kg)

CGS70 is suitable for all types of cell culture, including CHO, hybridoma, mammalian cells, insect cells, etc. It is the most complete culture device for biological culture before entering fermenter culture. CGS70 features unique bearing technology for stable start-up and virtually noiseless operation. The small size design is more suitable for low throughput multiple culture conditions, because of the small footprint, even in limited laboratory space can be installed and used. It can be stacked up to 2 layers for more space-saving laboratory use.

16 x 250 ml or 11 x 500 ml 6 x 1000 ml or 4 x 2000 ml



7 inch LCD touch control panel



Door heating function



Intelligent remote control function (optional)



Ultra-quiet operation

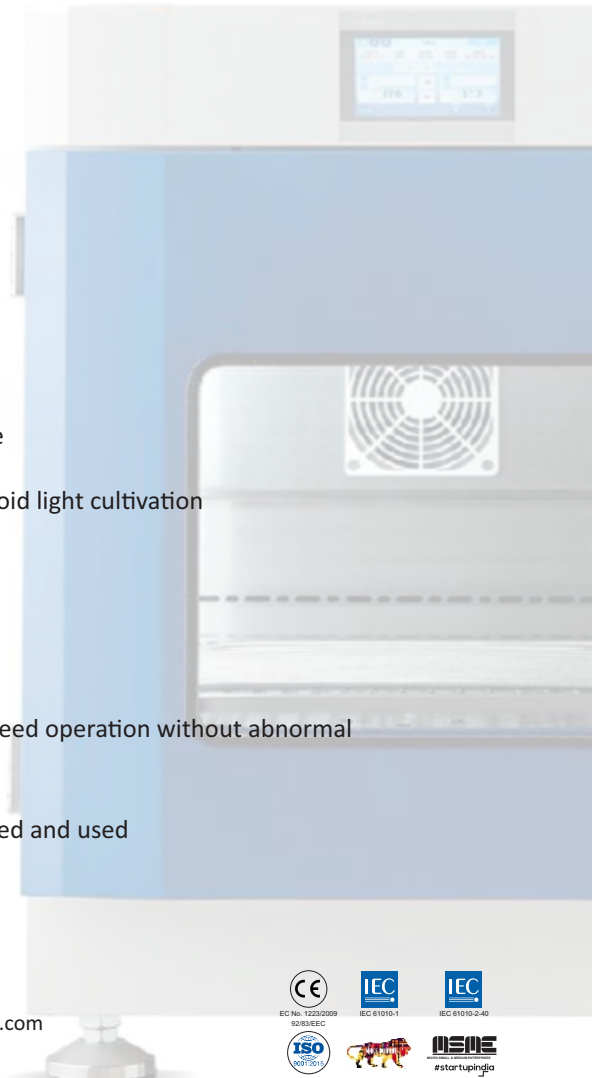


Multi-UV sterilization system

## Product Features



- 7 inch LCD touch control panel, simple and intuitive to operate
- Active humidity control function (optional)
- Built-in blackout curtain can be pushed and pulled easily to avoid light cultivation
- Intelligent remote control function (optional)
- Double glass doors for excellent insulation and safety
- Door heating function prevents fogging of the glass door
- Multi-UV sterilization system for better sterilization effect
- Environmentally friendly, odor-free sticky pad material
- All stainless steel rounded corners of the integrated cavity,
- Machine operation is nearly silent, multi-layer stacked high-speed operation without abnormal vibration
- Heatless waterproof fan ensures uniformity of temperature,
- Small footprint, even in limited laboratory space can be installed and used
- Flexible placement, stackable, effective in saving lab space
- Multi-safety design for user and sample safety



## Technical Details

Cat. No.	CGS315	CGS310	CGS160	CGS70
Control Interface	7 inch LED touch operation screen	7 inch LED touch operation screen	7 inch LED touch operation screen	7 inch LED touch operation screen
Rotation Speed	2~300rpm, Silent Drive	2~300rpm, Silent Drive	2~300rpm, Silent Drive	2~300rpm, Silent Drive
Speed Control Accuracy	1 rpm	1 rpm	1 rpm	1 rpm
Shaking Throw	50 mm (Customization is available)	50 mm (Customization is available)	50 mm (Customization is available)	50 mm (Customization is available)
Temperature Control Mode	PID control mode	PID control mode	PID control mode	PID control mode
Temperature Control Range	4°C ~60°C	4°C ~60°C	4°C ~60°C	4°C ~60°C
Temperature Display Resolution	0.1°C	0.1°C	0.1°C	0.1°C
Temperature Fluctuation	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Temperature Field Uniformity	±0.3°C	±0.3°C	±0.3°C	±0.3°C
Heating Power	750W	550W	550W	350W
Cooling Power	280W	250W	250W	250W
Timing Function	0-999.9hours	0-999.9hours	0-999.9hours	0-999.9hours
Tray Size	520x880 mm	500x500 mm	510x410 mm	370x400 mm
Maximum Load	50 kg	35 kg	35 kg	15 kg
Tray Capacity Of Shake Flask	60x250ml or 40x500ml 24x1000ml or 15x2000ml 15x3000ml or 8x5000ml	25x250ml or 16x500ml 9x1000ml or 4x2000ml 4x3000ml or 4x5000ml	35x250ml or 24x500ml 15x1000ml or 8x2000ml 6x3000ml or 4x5000ml	16x250ml or 11x500ml 6x1000ml or 4x2000ml
Internal usable height	340mm	578mm	340mm	285mm
Volume	315L	310L	160L	70L
Illumination	FI tube,30W	FI tube,30W	FI tube,30W	FI tube,30W
CO2 measurement principle	Infrared (IR) detection	Infrared (IR) detection	Infrared (IR) detection	Infrared (IR) detection
CO2 control range	0-20%	0-20%	0-20%	0-20%
CO2 display resolution	0.10%	0.10%	0.10%	0.10%
CO2 supply	0.05~0.1MPa is recommended	0.05~0.1MPa is recommended	0.05~0.1MPa is recommended	0.05~0.1MPa is recommended
Humidity control (optional)	Up to 85% r.h (Accuracy: ±5% r.h)	Up to 85% r.h (Accuracy: ±5% r.h)	Up to 85% r.h (Accuracy: ±5% r.h)	Up to 85% r.h (Accuracy: ±5% r.h)
Push-pull blackout curtain	built-in	built-in	built-in	built-in
Sterilization method	UV sterilization	UV sterilization	UV sterilization	UV sterilization
Historical data storage	8,00,000 messages	8,00,000 messages	8,00,000 messages	8,00,000 messages
Data export interface	USB interface	USB interface	USB interface	USB interface
Working environment temperature	5°C~ 35°C	5°C~ 35°C	5°C~ 35°C	5°C~ 35°C
Power supply	115V 230V±10%, 50~60Hz	115V 230V±10%, 50~60Hz	115V 230V±10%, 50~60Hz	115V 230V±10%, 50~60Hz
Dimnsion (WxDxH) mm	1330x880x610	700x830x1300	1000x790x625	550x710x785
Weight	220kg per unit	170kg per unit	145kg per unit	170kg per unit

# Incubator Shaker

For Microbial Culture

## CGM315T (Touch) Stackable Incubator Shaker (50kg)

CGM315T inherits the high precision manufacturing process. This incorporates many innovations in the field of material technology and control system. The large available culture space provides more options for large volume vessel culture. The touch screen interactive interface is easy to operate and the operation data is traceable.

60 x 250 ml or 40 x 500 ml 24 x 1000 ml or 15 x 2000 ml



Waterproof fan without background heat



Aluminum tray never deforms



Ultra-quiet operation



One-piece clamps are safer

### Key Features



- Touch screen interface, simple, intuitive and easy to operate
- Double-layer glass door to ensure excellent heat insulation and safety
- Brushed stainless steel rounded corners of the integrated cavity, beautiful and easy to clean
- Nearly silent machine operation, multi-layer stacking without movement
- One-piece molding clamps, stable and durable, effectively prevent unsafe events brought about by clamp breakage
- No heat waterproof fan, significantly reduce background heat, save energy
- Push-pull 8mm thick aluminum alloy tray never deformed, easy to place the culture flasks
- Waterproof design of the inner cavity of the incubator, easy to clean dirt
- Flexible placement, stackable to 3 layers, effectively save the placement space
- Operation data can be recorded and exported, with traceability



# Incubator Shaker

For Microbial Culture

## CGM160T (Touch) Stackable Incubator Shaker (35kg)

CGM160T inherits the high precision manufacturing process. This incorporates many innovations in the field of material technology and control system. Its moderate culture capacity is suitable for most customers. The touch screen interactive interface is easy to operate and the operation data is traceable.

35 x 250 ml or 24 x 500 ml 15 x 1000 ml or 8 x 2000 ml



Waterproof fan without background heat



Aluminum tray never deforms



Ultra-quiet operation



One-piece clamps are safer

### Key Features

- Touch screen interface, simple, intuitive and easy to operate
- Double-layer glass door to ensure excellent heat insulation and safety
- Brushed stainless steel rounded corners of the integrated cavity, beautiful and easy to clean
- Nearly silent machine operation, multi-layer stacking without movement
- One-piece molding clamps, stable and durable, effectively prevent unsafe events brought about by clamp breakage
- No heat waterproof fan, significantly reduce background heat, save energy
- Push-pull 8mm thick aluminum alloy tray never deformed, easy to place the culture flasks
- Waterproof design of the inner cavity of the incubator, easy to clean dirt
- Flexible placement, stackable to 3 layers, effectively save the placement space

# Incubator Shaker

For Microbial Culture

## CGM350T (Touch) Stackable Incubator Shaker (50kg) (Large Volume Flask Shaker)

CGM350T inherits the high precision manufacturing process. This has innovations in material process and control system. The available culture space has been enlarged to accommodate **3L** or **5L** shake flasks, customized for large volume culture.

14 x 3000 ml or 8 x 5000 ml



Waterproof fan without background heat



Aluminum tray never deforms



Ultra-quiet operation

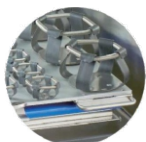


One-piece clamps are safer

### Key Features



- Touch screen interface, simple, intuitive and easy to operate
- Extra large volume to accommodate 3L and 5L shake flasks
- Double-layer glass door to ensure excellent heat insulation and safety
- Brushed stainless steel rounded corners of the integrated cavity, beautiful and easy to clean



- Nearly silent machine operation, multi-layer stacking without movement
- One-piece molding clamps, stable and durable, effectively prevent unsafe events brought about by clamp breakage
- No heat waterproof fan, significantly reduce background heat, save energy
- Push-pull 8mm thick aluminum alloy tray never deformed, easy to place the culture flasks



- Waterproof design of the inner cavity of the incubator, easy to clean dirt
- Flexible placement, stackable to 2 layers, effectively save the placement space
- Operation data can be recorded and exported, with traceability

# Incubator Shaker

For Microbial Culture

## CGM160

### Stackable Incubator Shaker (35kg)

CGM160 stackable incubator shaker upgrades the shaking tray to aluminum alloy, which is beautiful and will not be deformed, while the internal chamber space is increased by 15% with the same external dimensions, and collects many innovations in the fields of material technology and control system, making it the first choice for bacterial culture.

60 x 250 ml or 40 x 500 ml 24 x 1000 ml or 15 x 2000 ml



Waterproof fan without background heat



Aluminum tray never deforms



Ultra-quiet operation

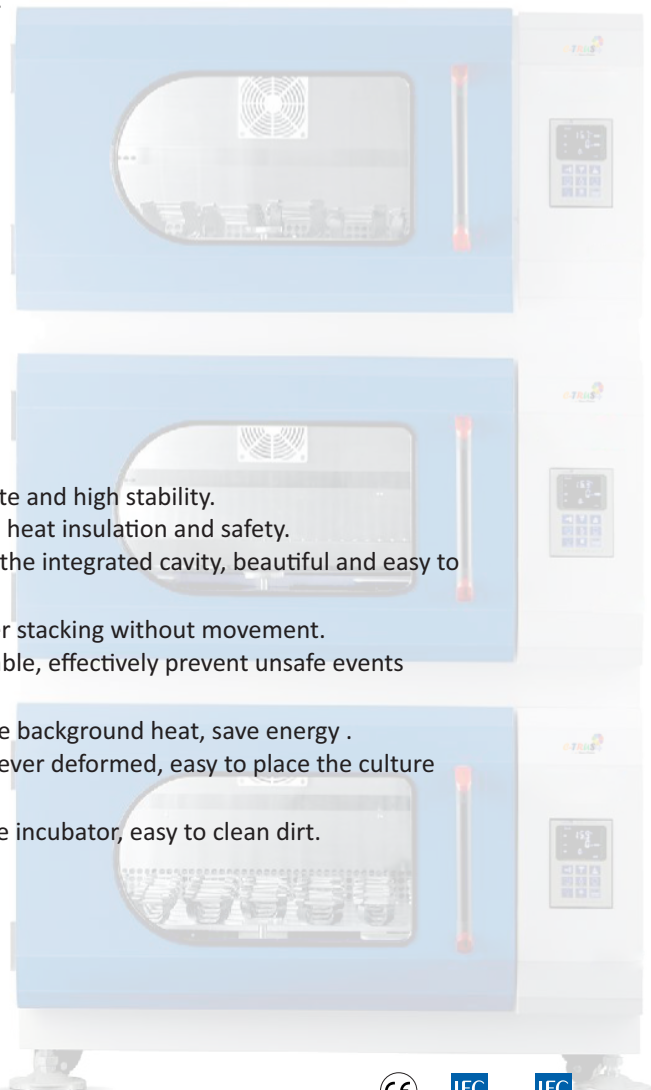


One-piece clamps are safer

### Key Features



- LCD button control interface, easy to operate and high stability.
- Double-layer glass door to ensure excellent heat insulation and safety.
- Brushed stainless steel rounded corners of the integrated cavity, beautiful and easy to clean.
- Nearly silent machine operation, multi-layer stacking without movement.
- One-piece molding clamps, stable and durable, effectively prevent unsafe events brought about by clamp breakage.
- No heat waterproof fan, significantly reduce background heat, save energy .
- Push-pull 8mm thick aluminum alloy tray never deformed, easy to place the culture flasks.
- Waterproof design of the inner cavity of the incubator, easy to clean dirt.



# Incubator Shaker

For Microbial Culture

## CGM310

### Double Deck Incubator Shaker (35kg)

The Vertical design of CGM310 vertical double deck is more suitable for human use habits, and the clever design of internal double desk shaking incubation or a deck of shaking incubation and a deck of static incubation not only expands the incubation space, but also provides more options for users.

50x250ml or 32x500ml, 18x1000ml or 5x2000ml



Waterproof fan without background heat



Aluminum tray never deforms



Ultra-quiet operation



One-piece clamps are safer

### Key Features

- Internal double deck shaking incubation or a deck of shaking incubation and a deck of static incubation expands the incubation space
- Double-layer glass door to ensure excellent heat insulation and safety
- Brushed stainless steel rounded corners of the integrated cavity, beautiful and easy to clean
- Nearly silent machine operation, multi-layer stacking without movement
- One-piece molding clamps, stable and durable, effectively prevent unsafe events brought about by clamp breakage
- No heat waterproof fan, significantly reduce background heat, save energy
- Waterproof design of the inner cavity of the incubator, easy to clean dirt

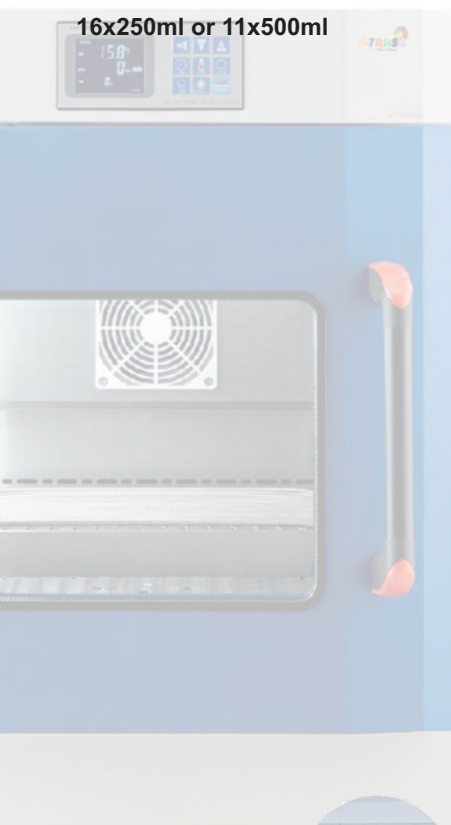
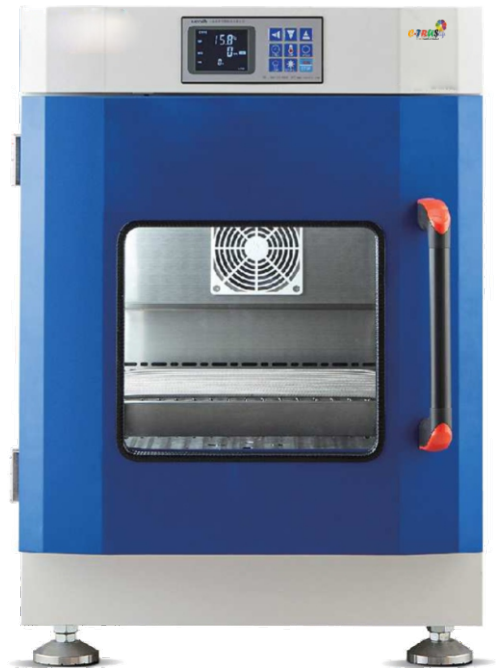
# Incubator Shaker

For Microbial Culture

**CGM70**

**Stackable Incubator Shaker (15kg)**

CGM70 stackable incubator shaker miniature design makes full use of the limited space in the laboratory, and can be placed under the laboratory table or on the laboratory table top, while maintaining a compact size equipped with a refrigeration system, providing a highly scalable temperature control range for culture and reaction, which can meet the needs of small amounts of culture.



16x250ml or 11x500ml



Waterproof fan without background heat



Aluminum tray never deforms



Ultra-quiet operation



One-piece clamps are safer

## Key Features

- Compact size and effective use of space, equipped with refrigeration system to effectively expand the culture temperature range
- Double-layer glass door to ensure excellent heat insulation and safety
- Brushed stainless steel rounded corners of the integrated cavity, beautiful and easy to clean
- Under-table height design, the incubator can be placed under the laboratory table, effective use of laboratory space
- Nearly silent machine operation, double-layer stacking without movement
- One-piece molding clamps, stable and durable, effectively prevent unsafe events brought about by clamp breakage
- No heat waterproof fan, significantly reduce background heat, save energy
- Waterproof design of the inner cavity of the incubator, easy to clean dirt

# Incubator Shaker

For Microbial Culture

## CGM110 Stackable Double-Deck Incubator Shaker (15kg)

CGM110 double deck shaker incubator inherits the high precision manufacturing process. It has expanded chamber space, allowing the unit to be placed under the lab bench, making full use of the limited space in the lab, while the internal double deck shake tray design not only expands the incubation space, but also provides more options for the user.

32 x 250 ml or 22 x 500 ml



Waterproof fan without background heat



Aluminum tray never deforms



Ultra-quiet operation



One-piece clamps are safer

### Key Features

- Compact size and effective use of space, equipped with refrigeration system to effectively expand the culture temperature range
- Double-layer glass door to ensure excellent heat insulation and safety
- Brushed stainless steel rounded corners of the integrated cavity, beautiful and easy to clean
- Under-table height design, the incubator can be placed under the laboratory table, effective use of laboratory space
- Nearly silent machine operation, double-layer stacking without movement
- One-piece molding clamps, stable and durable, effectively prevent unsafe events brought about by clamp breakage
- No heat waterproof fan, significantly reduce background heat, save energy
- Waterproof design of the inner cavity of the incubator, easy to clean dirt



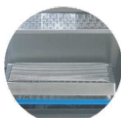
# Incubator Shaker

For Microbial Culture

## CGM86 Multifunctional Stackable Incubator Shaker (15kg)

CGM86 multifunctional shaker incubator's compact design makes full use of the limited space under the table in the laboratory, while the clever design of the internal a layer of shaking culture and a layer of static culture not only expands the culture space, but also provides more options for users.

16 x 250 ml or 11 x 500 ml 6 x 1000 ml or 5 x 2000 ml



Waterproof fan without background heat



Aluminum tray never deforms



Ultra-quiet operation



One-piece clamps are safer

### Key Features

- Compact size and effective use of space, equipped with refrigeration system to effectively expand the culture temperature range
- Double-layer glass door to ensure excellent heat insulation and safety
- Brushed stainless steel rounded corners of the integrated cavity, beautiful and easy to clean
- Under-table height design, the incubator can be placed under the laboratory table, effective use of laboratory space
- Nearly silent machine operation, double-layer stacking without movement
- One-piece molding clamps, stable and durable, effectively prevent unsafe events brought about by clamp breakage
- No heat waterproof fan, significantly reduce background heat, save energy
- Waterproof design of the inner cavity of the incubator, easy to clean dirt

# Incubator Shaker

For Microbial Culture

## CGM65 Incubator Shaker (5kg)

CGM86 multifunctional shaker incubator's compact design makes full use of the limited space under the table in the laboratory, while the clever design of the internal a layer of shaking culture and a layer of static culture not only expands the culture space, but also provides more options for users.



9 x 250 ml or 5 x 500 ml 4 x 1000 ml or 2 x 2000 ml



Waterproof fan without background heat



Aluminum tray never deforms



Ultra-quiet operation



One-piece clamps are safer



### Key Features

- 4.3-inch high-definition color touch screen makes the shaker easy to operate and displays operation information in real time
- The fully transparent outer cover allows for easy observation of operating status.
- Stable control of performance parameters, smooth operation with very low noise and good temperature uniformity.
- Unique configuration of balancing system, able to achieve high speed and smooth operation.
- Design with reference to the latest safety standards, with open lid door protection, hardware over-temperature independent protection.
- Adopt brushless motor and precision bearing, long life cycle and easy maintenance

### Technical Details

Cat. No.	CGM65		
Interface	4.3 inch Touch Screen	Tray capacity of shake flask	9 x 250 ml or 5 x 500 ml 4 x 1000 ml or 2 x 2000 ml
Rotation Speed	50 ~ 300 rpm	Dimension (W x D x H)	525 x 770 x 530 mm
Speed Control Accuracy	1 rpm	Volume	86 L
Shaking throw	20 mm	Internal usable height	365 mm
Temperature control mode	PID control mode	Tray Size	420 x 420 mm
Temperature control range	AT + 5 ~ 60°C	Working temperature	5°C~ 35°C
Temperature display resolution	0.1°C	Power supply	220 - 240 V / 50 ~ 60 Hz
Temperature fluctuation	±0.1°C	Weight	45 kg
Temperature field uniformity	±0.5°C @ 37°C		
Heating power	650 W		
Timing function	0-99 hours		

# Incubator Shaker

## Technical Details

Cat. No.	CGM315T	CGM160T	CGM350T	CGM315
Control Interface	7 inch LED touch operation screen	7 inch LED touch operation screen	7 inch LED touch operation screen	LCD button control interface
Rotation Speed	2~300rpm, Silent Drive	2~300rpm, Silent Drive	2~350rpm, Silent Drive	2~300rpm, Silent Drive
Speed Control Accuracy	1 rpm	1 rpm	1 rpm	1 rpm
Shaking Throw	26 mm (Customization is available)	26 mm (Customization is available)	26 mm (Customization is available)	26 mm (Customization is available)
Temperature Control Mode	PID control mode	PID control mode	PID control mode	PID control mode
Temperature Control Range	4°C ~60°C	4°C ~60°C	4°C ~60°C	4°C ~60°C
Temperature Display Resolution	0.1°C	0.1°C	0.1°C	0.1°C
Temperature Fluctuation	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Temperature Field Uniformity	±0.5°C	±0.5°C	±0.5°C	±0.5°C
Heating Power	750W	550W	750W	750W
Cooling Power	280W	250W	280W	280W
Timing Function	0-999.9hours	0-999.9hours	0-999.9hours	0-999.9hours
Tray Size	520x880 mm	510x410 mm	520x1014 mm	520x880 mm
Maximum Load	50 kg	35 kg	50 kg	50 kg
Tray Capacity Of Shake Flask	60x250ml or 40x500ml 24x1000ml or 15x2000ml	35x250ml or 24x500ml 15x1000ml or 5x2000ml	14x3000ml or 8x5000ml (3L/5L options only)	60x250ml or 40x500ml 24x1000ml or 15x2000ml
Dimnsion (WxDxH) mm	1330x880x610	1000x790x625	1460x820x805	1330x880x610
Internal usable height	340 mm	340 mm	450mm	340mm
Volume	315L	160L	350L	315L
Illumination	Fl tube,30W	Fl tube,30W	Fl tube,30W	Fl tube,30W
Sterilization method	UV sterilization	UV sterilization	UV sterilization	UV sterilization
Clamp Option	Universal spring mesh, flask clamps, deep-well plate clamps, test tube holders, etc. are available	Universal spring mesh, flask clamps, deep-well plate clamps, test tube holders, etc. are available	3L/5L options only, Enquire for more options.	Universal spring mesh, flask clamps, deep-well plate clamps, test tube holders, etc. are available
Historical Data Storage	2,50,000	2,50,000	2,50,000	-
Data export interface	USB interface	USB interface	USB interface	-
Number of settable program	4	4	4	-
Number of stage per program	30	30	30	-
Working environment temperature	5°C~ 35°C	5°C~ 35°C	5°C~ 35°C	5°C~ 35°C
Power supply	115V~ 230V±10%, 50~60Hz	115V ~ 230V±10%, 50~60Hz	115V ~ 230V±10%, 50~60Hz	115V ~ 230V±10%, 50~60Hz
Weight	220kg per unit	145kg per unit	240kg per unit	220kg per unit

# Incubator Shaker

## Technical Details

Cat. No.	CGM160	CGM310	CGM70	CGM110
Control Interface	LCD button control interface	LCD button control interface	LCD button control interface	LCD button control interface
Rotation Speed	2~300rpm, Silent Drive	30~300rpm, Silent Drive	2~300rpm, Silent Drive	2~300rpm, Silent Drive
Speed Control Accuracy	1 rpm	1 rpm	1 rpm	1 rpm
Shaking Throw	26 mm (Customization is available)	26 mm (Customization is available)	26 mm (Customization is available)	26 mm (Customization is available)
Temperature Control Mode	PID control mode	PID control mode	PID control mode	PID control mode
Temperature Control Range	4°C ~60°C	4°C ~60°C	4°C ~60°C	AT +5°C ~60°C
Temperature Display Resolution	0.1°C	0.1°C	0.1°C	0.1°C
Temperature Fluctuation	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Temperature Field Uniformity	±0.5°C	±0.5°C	±0.5°C	±0.5°C
Heating Power	550W	550W	350W	350W
Cooling Power	250W	280W	280W	NA
Timing Function	0-999.9hours	0-999.9hours	0-999.9hours	0-999.9hours
Tray Size	590x465 mm	500x500 mm	370x400 mm	370x400 mm
Maximum Load	35 kg	35 kg	15 kg	15 kg
Tray Capacity Of Shake Flask	60x250ml or 40x500ml 24x1000ml or 15x2000ml	50x250ml or 32x500ml 18x1000ml or 5x2000ml	16x250ml or 11x500ml	32x250ml or 22x500ml
Dimnsion (WxDxH) mm	1330x830x610	700x830x1300	550x715x780	550x715x780
Internal usable height	340 mm	578 mm	285mm	520mm
Volume	160L	310L	70L	110L
Illumination	Fl tube,30W	Fl tube,30W	Fl tube,30W	Fl tube,30W
Sterilization method	UV sterilization	UV sterilization	UV sterilization	UV sterilization
Clamp Option	Universal spring mesh, flask clamps, deep-well plate clamps, test tube holders, etc. are available	Universal spring mesh, flask clamps, deep-well plate clamps, test tube holders, etc. are available	Universal spring mesh, flask clamps, deep-well plate clamps, test tube holders, etc. are available	Universal spring mesh, flask clamps, deep-well plate clamps, test tube holders, etc. are available
Working environment temperature	5°C~ 35°C	5°C~ 35°C	5°C~ 35°C	5°C~ 35°C
Power supply	115V~ 230V±10%, 50~60Hz	115V ~230V±10%, 50~60Hz	115V~ 230V±10%, 50~60Hz	220V~240V±10%, 50~60Hz
Weight	145kg per unit	170kg per unit	75kg per unit	80kg per unit

# Incubator Shaker

## Technical Details

Cat. No.	CGM86	CGM65
Control Interface	LCD button control interface	4.3 inch Touch Screen
Rotation Speed	2~300rpm, Silent Drive	50~300rpm, Silent Drive
Speed Control Accuracy	1 rpm	1 rpm
Shaking Throw	26 mm (Customization is available)	20 mm (Customization is available)
Temperature Control Mode	PID control mode	PID control mode
Temperature Control Range	AT +5°C ~60°C	AT +5°C ~60°C
Temperature Display Resolution	0.1°C	0.1°C
Temperature Fluctuation	±0.1°C	±0.1°C
Temperature Field Uniformity	±0.5°C	±0.5°C
Heating Power	350W	650W
Cooling Power	NA	NA
Timing Function	0-999.9hours	0-999.9hours
Tray Size	370x400 mm	420x420 mm
Maximum Load	15 kg	5 kg
Tray Capacity Of Shake Flask	16x250ml or 11x500ml 6x1000ml or 5x2000ml	9x250ml or 5x500ml 4x1000ml or 2x2000ml
Dimnsion (WxDxH) mm	550x715x780	525x770x530
Internal usable height	400 mm	365 mm
Volume	86L	86L
Illumination	Fl tube,30W	Fl tube,30W
Sterilization method	UV sterilization	UV sterilization
Clamp Option	Universal spring mesh, flask clamps, deep-well plate clamps, test tube holders, etc. are available	Universal spring mesh, flask clamps, deep-well plate clamps, test tube holders, etc. are available
Working environment temperature	5°C~ 35°C	5°C~ 35°C
Power supply	220V~240V±10%, 50~60Hz	220V~240V±10%, 50~60Hz
Weight	70kg per unit	45kg per unit



# High Speed Incubator Shaker

## CGS160HS High Speed Stackable Incubator Shaker (35kg) (with CO<sub>2</sub> and without CO<sub>2</sub>)

With an amplitude of 3 mm and an oscillation speed of up to 1000 rpm, the CGS160HS is a special model that is ideal for high-throughput micro volume deep-well plate cell culture of more than several thousand biological samples at a time, making it a powerful tool for optimal bioculture screening. It is suitable for all kinds of cell culture, including CHO, hybridoma, mammalian cells, insect cells, etc. and can be used in 2 or 3 layers, which is more space-saving. Models are available with and without CO<sub>2</sub> control.



Heatless waterproof fan



Door heating function (optional)



Ultra-quiet operation



High speed up to 1000 rpm



### Key Features

- 7 inch LCD touch control panel, simple and intuitive to operate
- With an amplitude of 3 mm and an oscillation speed of up to 1000 rpm
- Ideal for high-throughput microvolume deep-well plate cell culture
- Active humidity control function (optional)
- Built-in blackout curtain can be pushed and pulled easily to avoid light cultivation
- Intelligent remote control function (optional)
- Double glass doors for excellent insulation and safety
- Door heating function prevents fogging of the glass door
- Multi-UV sterilization system for better sterilization effect
- All stainless steel rounded corners of the integrated cavity,
- Heatless waterproof fan ensures uniformity of temperature,
- Flexible placement, stackable, effective in saving lab space
- Multi-safety design for user and sample safety

### Technical Details

Cat. No.	CGS160HS (CO <sub>2</sub> ), CGM160HS without (CO <sub>2</sub> )
Control Interface	7 inch LED touch operation screen
Rotation Speed	30~1000 rpm
Speed Control Accuracy	1 rpm
Shaking throw	3 mm
Temperature control mode	PID control mode
Temperature control range	4°C ~60°C
Temperature display resolution	0.1°C
Temperature fluctuation	±0.1°C
Temperature field uniformity	±0.3°C
Heating power	550 W
Cooling power	250 W
Timing function	0-999.9 hours
Tray size	590 x 465 mm
Maximum load	35 kg
Tray capacity of shake plate	32 deep well plates

Dimension (W x D x H)	L1000 x W790 x H625mm (one unit) L1000 x W790 x H1180mm (two units) L1000 x W790 x H1730mm (three units)
Internal usable height	340 mm
Volume	160 L
Illumination	Fl tube, 30 W
CO <sub>2</sub> measurement principle	Infrared (IR) detection (CO <sub>2</sub> Model only)
CO <sub>2</sub> control range	0-20 % (CO <sub>2</sub> Model only)
CO <sub>2</sub> display resolution	0.10 % (CO <sub>2</sub> Model only)
CO <sub>2</sub> supply	0.05~0.1MPa is recommended
Humidity control (optional)	Up to 85% r.h (Accuracy: ±5% r.h)
Push-pull blackout curtain	build-in
Sterilization method	UV sterilization
Historical data storage	1,50,000 messages
Data export interface	USB interface
Working environment temperature	5°C~35°C
Power supply	220~240V/50~60Hz
Weight	145 kg per unit apx.

# Incubator Shaker

## Shaker Accessories Table

Accessory Picture	Accessory Picture	Cat. No.
	Removable shaking tray 520 x 880 mm	CRP3100
	Removable shaking tray 465 x 590 mm	CRP2100
	125 ml Flask clamp	CRF125
	250 ml Flask clamp	CRF250
	500 ml Flask clamp	CRF500
	1000 ml Flask clamp	CRF1000
	2000 ml Flask clamp	CRF2000
	5000 ml Flask clamp	CRF5000
	Universal spring mesh holder	CRF3100
	Test tube rack holder (50MLx18; 15MLx24)	CRF23W
	423x130x90mm	
	Test tube rack holder (15MLx52)	CRF24W
	373x115x90mm	
	Test tube rack holder (50MLx30)	CRF25W
	423x130x90mm	
	Deep well plate holder	CRF96P
	Peacock Blue Crystal sticky pad	CRF3101
	140 x 140 mm	
	L1330mm x D750mm x H670mm	CRD-ZJ670M
	L1040mm x D650mm x H670mm	CRD-ZJ670S
	L1330mm x D750mm x H350mm	CRD-ZJ350SM
	L1040mm x D650mm x H350mm	CRD-ZJ350S



# Water Bath Shaker

## CGM10W High Precision Thermostatic Water Bath Shaker

CGM10W is a combination of temperature-controlled thermostatic water bath and gentle oscillator, easy and convenient to operate, suitable for microbiology and medical analysis and other fields. Low energy consumption, safe and stable without noise. It can be used in laboratories as an application for bacterial tissue culture, fermentation, hybridization and biochemical reactions that have high requirements for temperature and oscillation frequency.



Waterproof fan without background heat



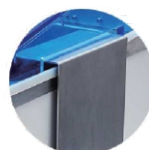
Aluminum tray never deforms



Ultra-quiet operation



One-piece clamps are safer



### Key Features

- TFT color screen display, multi-section program selectable, parameter setting at a glance, simple and generous appearance
- DC brushless motor drive, effectively reduce the speed noise, maintenance-free
- Microprocessor control, good temperature control linearity, small fluctuations
- Built-in liquid level sensor to prevent dry burning, buzzer alarm, safe and reliable
- Transparent flip cover design, real-time observation, easy to operate

### Technical Details

Cat. No.	CGM10W
Interface	Push-button control interface
Rotation Speed	30 ~ 200 rpm
Speed Control Accuracy	1 rpm
Shaking throw	20 mm
Temperature control mode	PID control mode
Temperature control range	AT + 5 ~ 100°C
Temperature display resolution	0.1°C
Temperature fluctuation	±0.1°C
Temperature field uniformity	±0.3°C
Heating power	1100 W
Timing function	0-99 hours

Dimension (W x D x H)	340 x 470 x 355 mm
Volume	10 L
Internal Dimension (W x D x H)	240 x 300 x 150 mm
Clamp Type	Spring Mesh
Working environment temperature	5°C~ 35°C
Power supply	220~240V/50~60Hz
Weight	25 kg

# Humidity Chamber

## High Precision Temperature and Humidity Chamber

### CGT250H Humidity Chamber (250L)

With temperature control from 4°C to 60°C and active humidification and dehumidification control from 20% to 90% RH, CGT250H is optimized for the requirements of stability testing in the pharmaceutical and life sciences industry. Due to its quiet operation, it is also suitable for the cultivation and propagation of insects or zebrafish and a vast range of applications.



### Key Features

- With heating and cooling function
- Combined humidification and dehumidification functions
- Extreme temperature and humidity uniformity
- 5-inch LCD touch control panel interface
- Multi-stage program can be set
- Standard double doors with glass inner door
- UV sterilization function as standard
- Multiple safety designs to ensure the safety of users and samples
- When a parameter is far from the set value, automatically open the alarm system
- Equipped with data export USB port, can easily export the backup data



With humidification and dehumidification function



5-inch LCD touch control panel interface



Test data can be exported via USB interface



Test data can be exported via USB interface



### Technical Details

Cat. No.	CGT250H
Control Interface	5 inch LED touch screen
Temperature control mode	PID control mode
Temperature control range	4°C ~60°C
Temperature display resolution	0.1°C
Temperature fluctuation	±0.1°C
Temperature field uniformity	±0.5°C
Heating power	750 W
Cooling power	280 W
Timing function	0-999.9 hours
Internal dimensions (W x D x H)	600 x 500 x 820 mm
External dimensions (W x D x H)	750 x 900 x 1580 mm
Volumn	248 L
Illumination	Fl lamp, 30 W

Humidity Control Range	20%~90% RH
Humidity Control Accuracy	+3% RH
Sterilization Method	UV sterilization
Historic Data Storage	250,000 messages
Working Temperature	10°C~30°C
Power Supply	220~240V/50-60Hz
Weight	180 kg

# Humidity Chamber

## High Precision Temperature and Humidity Chamber

### CGT1000H

### Humidity Chamber (1000L)

With temperature control from 4°C to 60°C and active humidification and dehumidification control from 20% to 90% RH, CGT1000H is optimized for the requirements of stability testing in the pharmaceutical and life sciences industry. Due to its quiet operation, it is also suitable for the cultivation and propagation of insects or zebrafish and a vast range of applications.



With humidification and dehumidification function



5-inch LCD touch control panel interface



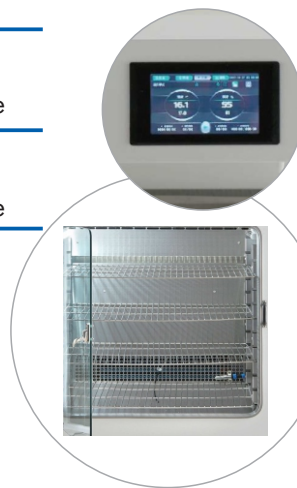
Test data can be exported via USB interface



Test data can be exported via USB interface

## Technical Details

Cat. No.	CGT1000H
Control Interface	5 inch LED touch screen
Temperature control mode	PID control mode
Temperature control range	4°C ~60°C
Temperature display resolution	0.1°C
Temperature fluctuation	±0.1°C
Temperature field uniformity	±0.5°C
Heating power	750 W
Cooling power	280 W
Timing function	0-999.9 hours
Internal dimensions (W x D x H)	1000 x 1000 x 1000 mm
External dimensions (W x D x H)	150 x 1850 x 1520 mm
Volumn	1000 L
Illumination	Fl lamp, 30 W



## Key Features

- With heating and cooling function
- Combined humidification and dehumidification functions
- Extreme temperature and humidity uniformity
- 5-inch LCD touch control panel interface
- Multi-stage program can be set
- Standard double doors with glass inner door
- UV sterilization function as standard
- Multiple safety designs to ensure the safety of users and samples
- When a parameter is far from the set value, automatically open the alarm system
- Equipped with data export USB port, can easily export the backup data

Humidity Control Range	20%~90% RH
Humidity Control Accuracy	+3% RH
Sterilization Method	UV sterilization
Historic Data Storage	2,50,000 messages
Working Temperature	10°C~30°C
Power Supply	220~240V/50-60Hz
Weight	280 kg



# Incubator

## High Precision Incubator

### CGT250R

### Digital Thermostatic Incubator (250L)

CGT250R is refrigerated digital thermostatic incubator, with heating and cooling function, temperature control range 4-60°C, compressor and circulating fan with high efficiency and low energy consumption, not only promote energy saving, but also long service life. The cooling time is reduced by more than 40%. It is the special digital thermostat equipment for water analysis and BOD determination, cultivation, preservation and breeding test of bacteria, mold and microorganism and a vast range applications.



With over-temperature alarm system



UV sterilization function



Intelligent and precise temperature control



Ultra-quiet operation



## Key Features

- With heating and cooling function
- Extreme temperature uniformity
- 5-inch LCD touch control panel interface
- Multi-stage program can be set
- Standard double doors with glass inner door
- UV sterilization function as standard
- Multiple safety designs to ensure the safety of users and samples
- When a parameter is far from the set value, automatically open the alarm system
- Equipped with data export USB port, can easily export the backup data

## Technical Details

Cat. No.	CGT250R
Control Interface	5 inch LED touch screen
Temperature control mode	PID control mode
Temperature control range	4°C ~60°C
Temperature display resolution	0.1°C
Temperature field uniformity	±0.5°C
Heating power	750 W
Cooling power	280 W
Timing function	0-999.9 hours
Internal dimensions (W x D x H)	600 x 500 x 820 mm
External dimensions (W x D x H)	750 x 900 x 1580 mm
Volumn	250 L
Illumination	Fl lamp, 30 W

Sterilization Method	UV sterilization
Historic Data Storage	250,000 messages
Working Temperature	10°C~30°C
Power Supply	220~240V/50-60Hz
Weight	180 kg

# Incubator

## High Precision Incubator

### CGT180 Digital Thermostatic Incubator (180L)

CGT180 digital thermostatic incubator, with heating function, temperature control range AT+5-60°C, It is universal thermostatic equipment for water analysis and BOD determination, cultivation, preservation and breeding test of microorganism and a vast range of applications.



### Key Features

- With heating function
- Extreme temperature uniformity
- Multiple safety designs to ensure the safety of users and samples
- When a parameter is far from the set value, automatically open the alarm system

### Technical Details

Cat. No.	CGT180
Control Interface	5 inch LED touch screen
Temperature control mode	PID control mode
Temperature control range	At + 5°C ~60°C
Temperature display resolution	0.1°C
Temperature field uniformity	±0.5°C @ 37°C
Heating power	700 W
Timing function	0-999.9 hours
Internal dimensions (W x D x H)	502 x 535 x 675 mm
External dimensions (W x D x H)	580 x 610 x 800 mm
Volumn	180 L
Working Temperature	10°C ~ 35°C
Power Supply	220 ~ 240 V/50 ~ 60 Hz
Weight	63 kg



# High Efficiency Clean Benches

Ensures the Safety of Product, Personnel and Environment

## CGO-VLAF-02 Vertical Laminar Flow Bench (3Ft) Clean Workbench (ULPA)

CGO-VLAF-02 is high quality clean workbench is equipped with new laminar flow technology to provide multi-faceted protection for your samples and processing processes. These clean benches are built with high gauge steel sheets with cold bending process that gives it high quality finish with excellent mechanical strength. The Imported ULPA filter makes the cleanliness of the working area reach to a safe level. In addition, it has the advantages of stable air speed, low noise, low energy consumption, and mobility, etc. It is widely used in biological, chemical and other scientific research and production units that need local clean and sterile working environment.



### Key Features

- Provide UV sterilization, filter life visualization warning function.
- Color LCD digital display control interface, can achieve three speed adjustment.
- The work area surface is made of one-piece high quality 304 grade stainless steel, which is corrosion resistant and easy to clean.
- A robust and agronomical front window is made of 5mm thick tempered glass and adopts roller type arbitrary positioning sliding door system.
- UV lamp can be set to open and close by programming.
- Lighting and sterilization system interlock function, with backup socket design, can be power failure protection function.
- Glass sidewall design provides wide field of view. High bright lighting makes easy to observe.
- Universal turning casters with braking device makes flexible movement.

### Technical Details

Cat. No.	CGO-VLAF-02 (3Ft)
Control Interface	Push-Button Control Panel
Air Cleanliness	ISO 5 Class
Noise Level	<62dB
Illumination Level	>300LX
Sterilization Method	UV sterilization
Power Supply	AC220V, 50Hz
Max. Power	250 W
Weight	130 kg
Working Area Dimensions (w X D X H)	870 × 690 x 520 mm
External Dimensions (w X D X H)	1010 × 725 × 1625 mm

# High Efficiency Clean Benches

Ensure the safety of product, personnel and environment

## CGO-VLAF-03 Vertical Laminar Flow Bench (4.5Ft) Clean Workbench (ULPA)

CGO-VLAF-03 is high quality clean workbench is equipped with new laminar flow technology to provide multi-faceted protection for your samples and processing processes. These clean benches are built with high gauge steel sheets with cold bending process that gives it high quality finish with excellent mechanical strength. The Imported ULPA filter makes the cleanliness of the working area reach to a safe level. In addition, it has the advantages of stable air speed, low noise, low energy consumption, and mobility, etc. It is widely used in biological, chemical and other scientific research and production units that need local clean and sterile working environment.



### Key Features

- Provide UV sterilization, filter life visualization warning function.
- Color LCD digital display control interface, can achieve three speed adjustment.
- The work area surface is made of one-piece high quality 304 grade stainless steel, which is corrosion resistant and easy to clean.
- A robust and agronomical front window is made of 5mm thick tempered glass and adopts roller type arbitrary positioning sliding door system.
- UV lamp can be set to open and close by programing.
- Lighting and sterilization system interlock function, with backup socket design, can be power failure protection function.
- Glass sidewall design provides wide field of view. High bright lighting makes easy to observe.
- Universal turning casters with braking device makes flexible movement.

### Technical Details

Cat. No.	CGO-VLAF-03 (4Ft)
Control Interface	Push-Button Control Panel
Air Cleanliness	ISO 5 Class
Noise Level	≤62dB
Illumination Level	≥300LX
Sterilization Method	UV sterilization
Power Supply	AC220V, 50Hz
Max. Power	500 W
Weight	170 kg
Working Area Dimensions (w X D X H)	1360 × 690 x 520 mm (4.5 Ft)
External Dimensions (w X D X H)	1500 × 725 × 1625 mm

# Biological Safety Cabinet






## Type-A2

Ensure the safety of product, personnel and environment

### CGO-BSC-03 Biological Safety Cabinet (4Ft)

CGO-BSC-03 is a Class II, Type A2 biological safety cabinet that saves time, energy and money. These Biosafety Cabinets are built with high gauge steel sheets with cold bending process that gives it high quality finish with excellent mechanical strength. The Imported ULPA filter makes the cleanliness of the working area reach to a safe level. Its outstanding design and advanced technology, such as unique airflow design, excellent ergonomics for a safe and comfortable environment, and outstanding energy efficiency to reduce operating costs.



-  7-inch touch screen interface
-  Intelligent air volume compensation system
-  Programmed UV sterilization function
-  High quality ULPA filter
-  Complies with international safety standards

### Technical Details

Cat. No.	CGO-BSC-03
Filtration efficiency	≥99.9995%, @0.12µm
Air supply and exhaust filters	ULPA filters
Air Cleanliness	ISO 4 Class
Execution standards	YY0569(GB 4793.1, GB/T 18268.1)
Downflow velocity	0.35m/s
Inflow velocity	0.55m/s
Noise level	<63 dB
Vibration	<5 µm (center of tabletop)
Personnel Protection	A. Total colony in impaction sampler ≤10CFU./time B. Total colony in slot sampler <5CFU./time
Product Protection	Total colony in culture dish ≤5CFU./time
Cross-contamination Protection Total	Total colony in culture dish s2CFU./time
Max Consumption(with spare socket)	1.65KW
Rated Power(without spare socket)	0.33KW
Size and Qty. of Light	18Wx1
Size and Qty. of UV Light	20Wx1
Lumin (LED)	≥900LX
Cabinet Materials	High-grade steel and lacquered in ivory
Working Area Materials	SS304 fully finished
Air Direction	Top out
Work Dimension(W1XD1XH1)	1200x580x800mm
External Dimension(WXDXH)	1300x850x2270mm
Power supply	AC220V,14,50Hz
Weight	260KG

### Key Features

- 10° Tilt front window design, bright and low noise work area
- The front window glass can be cleaned inside and outside, leaving no hygiene corners
- Mobile operating surface, equipped with stainless steel lifting handle and support frame, more convenient for cleaning and maintenance
- Splash-proof safety sockets on the inner wall of the work area, more flexible in use
- Unique value and power-off memory function
- High quality ULPA filter and unique technology of "leakage blocking" ensure the air cleanliness to ISO level 4.
- Service ports like Vacuum, Gas, Electric.
- Certification-ISO, CE, **Standard EN 12469:2000 for Laminar and Biosafety.**

# Multi-Plate Trajectory Shaker

High-Throughput experiment

**CGP896**

**Multi-plate trajectory shaker**

CGP896 multi-plate shaker is used in conjunction with 96-well deep well plates and magnetic bead kits to effectively mix liquids in tubes. It can be used for high-throughput experiments including nucleic acid extraction and liquid homogenization.



Simulation of hand shaking



Compatible with various microplates



High precision microcomputer controller



Independent control of each plate holder

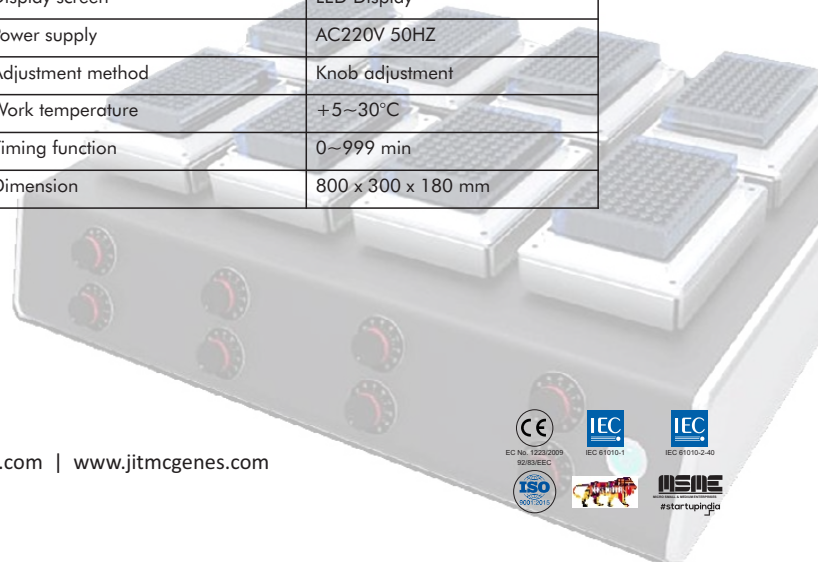


## Key Features

- Simulate manual shaking and mixing track, lower frequency can mix the liquid well
- No need to add rubber cover or film to the well plate, liquid will not splash out of the well plate
- Compatible with 48 deep-well plate, 96 deep-well plate,
- 96-well PCR plate and ELISA plate
- Independent control of each plate position
- Can complete 8x96 samples at the same time

## Technical Details

Cat. No.	CGP896
Max. Load Capacity	8 microplates
Max. Rotation Speed	2000 rpm
Speed control accuracy	1 rpm
Shaking throw	2 mm
Display screen	LED Display
Power supply	AC220V 50HZ
Adjustment method	Knob adjustment
Work temperature	+5~30°C
Timing function	0~999 min
Dimension	800 x 300 x 180 mm



# Tissue Homogenizer

For Sample Homogenization

## CG48 Refrigerated Tissue Sample Homogenizer

CG48 uses a special vibration mode in the grinding tube with a unique **∞-type** three-dimensional motion pattern to deliver the highest mechanical energy to the sample in the shortest possible time, through the high-frequency reciprocal vibration, impact and shear of the grinding beads. It quickly achieves the homogenization of sample with no mechanical heating to prevent viability of samples. It ensures no cross-contamination between samples, and can handle 48 samples at a time.



### 48 samples can be finished in 20 seconds

- High efficiency of sample grinding
- Low temperature grinding environment
- No cross-contamination of samples
- ∞ type 3D motion trajectory
- Customizable grinding flux



### Key Features

- High sample processing efficiency, 48 samples can be processed in a run.
- Low-temperature grinding environment to effectively protect biological activity and prevents viability of samples.
- No cross-contamination between samples.
- The unique **∞-type** three-dimensional.
- High safety, *no need to add liquid nitrogen* refrigeration, open the lid safety protection.
- Fast grinding speed, 48 samples can be finished in 20 seconds.



### Technical Details

Cat. No.	CG48
Application	Sample grinding, crushing, homogenizing
Control Interface	5 inch LCD touch screen
Vibrating Speed	0-70Hz, 0-2100 rpm
Power Supply	220 V, <2.5 A
Rated Power	180 W
Timing Function	1-99995
Fluxes	48 x (1.5-2 mL); 2 x 25 mL

Amplitude	34 mm
Diameter of grinding ball	0.1-30 mm
Grinding ball material	Stainless steel, quartz sand
Acceleration time	2S
Deceleration time	2S
Temperature control range	4°C ~ AT
Noise level	< 60 db
Dimension (L x W x H)	600 x 520 x 405 mm
Weight	60 kg

# Precision Water Bath

For Precise Temperature Control

## CGWB03

### Water Bath (304 Stainless Steel)



## CBWB01

### Water Bath(304 Stainless Steel)



304 stainless steel



Independent switch control



High precision temperature control



Over temperature alarm

## Technical Details

Cat. No.	CGWB03	CBWB01
No. of Tank	3	1
Power Control	Independent Switch Control	Independent Switch Control
Max. Power	750 W	500 W
Temperature Uniformity	< ±1°C	< ±1°C
Temperature Fluctuation	< +0.5°C	< +0.5°C
Temperature Control Range	AT+5~100°C	AT+5~100°C
Dimension	540 x 265 x 315 mm	540 x 200 x 260 mm
Dimension of Inner Tank	300 x 150 x 150	410 x 180 x 160 mm
Power Supply	220 V, 50 ~ 60H Z	220 V, 50 ~ 60H Z
Weight	9.8 kg	3.8 kg

# Mini EZA Vertical Electrophoresis Cells (83x73mm)



## Advantages

### Electrophoresis Core

The sliding round bars of electrophoresis core lifts the short glass plate that there is no need to push up manually.

### Gel-casting frame

The whole flat plate is easy for observation of the gel casting process.

The bottom supporter avoids glass plate falling down from the gel-casting frame.

### Gel Base

The enforced PC locker is stable and durable. The press and push lock to clamp the glass plate firmly with even force.

## Features

- The bottom of the gel-casting frame is supported by very flat glass to prevent the glass plate from sliding.
- The press-lock mechanism works better. The contrasting design clearly reflects the making process of separated gel. The press-to-lock design avoids the gel leakage caused by aging or poor function of traditional spring-pressure.
- The design of sliding wedge of side fastener of electrophoresis core presses the short glass onto the sealing gasket tightly to avoid liquid leakage caused by traditional rotary side fastener.
- The cam gel-making frame ensures the accurate aligning.
- Including 2 or 4 independent gel-cast frame and casting 1-4 gels simultaneously.
- Easy to read the gauged glass plate and clearly marked comb.
- Platinum electrode:  $\varnothing 0.25\text{mm}$ .

Model	EZA1 Mini Quad Vertical Electrophoresis Cell	EZA2 Mini Duo Vertical Electrophoresis Cell
Gel Quantity	1-4 Gels	1-2 Gels
Gel Thickness	1.0 mm, 0.75 mm, 1.5 mm	
Glass Plates	Short Glass Plate: 100×73 mm; Spacer Glass Plate: 100×83mm	
Gel Size	83×73 mm	
Combs	1.0 mm : 10 and 15 wells (Standard Accessories) 0.75 mm : 10 and 15 wells 1.5 mm : 10 and 15 wells	
Dimension (mm)	180×130×160 (L×W×H)	

# Mini EZB Vertical Electrophoresis Cells

## Advantages

### Electrophoresis Core

The sliding round bars of electrophoresis core lifts the short glass plate that there is no need to push up manually.

### Gel-casting frame

The whole flat plate is easy for observation of the gel casting process.

The bottom supporter avoids glass plate falling down from the gel-casting frame.

### Gel Base

The enforced PC locker is stable and durable. The press and push lock to clamp the glass plate firmly with even force.



## Advantages

Mini Vertical Electrophoresis Cells is high quality equipment, made for high performance and great durability.

Extra thick 0.25 mm 99.99% of platinum wire helps to improve the life of the product.

Integral injection molding of imported polycarbonate of plastic accessories, transparent, longer lifetime.

## Features

- Filler strip is fixed to glass place to avoid leakage of gel.
- Gel-making kit ensures the accurate aligning.
- Single Mold, Excellent leak-proofness.
- Special comb does not stop gel polymerization. Built-in kit isolates gel from air.
- Thickness and well-marked comb is readable.
- Equipped with multi-functional gel scraper.
- Platinum electrode:  $\varnothing 0.25\text{mm}$ .

Model	EZA1 Mini Quad Vertical Electrophoresis Cell	EZA2 Mini Duo Vertical Electrophoresis Cell
Gel Quantity	1-4 Gels	1-2 Gels
Gel Thickness	1.0 mm, 0.75 mm, 1.5 mm	
Glass Plates	Short Glass Plate: 100×73 mm; Spacer Glass Plate: 100×83mm	
Gel Size	83×73 mm	
Combs	1.0 mm : 10 and 15 wells (Standard Accessories) 0.75 mm : 10 and 15 wells 1.5 mm : 10 and 15 wells	
Dimension (mm)	180×130×160 (L×W×H)	

# Precast Gel Vertical Electrophoresis Cells

## Features

- Fully compatible with mini precast gel of NuPage, Novex and TGX gels.
- Holding 1-4 precast gel(s), running 4 mini precast gels within 1 hour.
- Platinum electrode:  $\phi 0.25\text{mm}$ .

## Specifications

Model	PRE01 Mini Vertical Electrophoresis Cell	PRE02 Mini Vertical Electrophoresis Cell
Gel Quantity	1-4 Gels	1-2 Gels
Max compatible gel size	10 × 10 cm	
Dimension (mm)	180×130×160 (L×W×H)	

# Mini Vertical Blot Cells (2 gels)

## Cat No MBLOT02

Transferring protein sample to nitrocellulose membrane, PVDF membrane etc.  
Two transfer plates are available.

## Configuration

- Platinum wire battery lead plate
- Transfer plates with sponge liner
- 2 cooling units

## Features

- High-current fast transfer and low-current overnight transfer are available.
- Built-in freeze block absorbs heat efficiently.

## Specifications

- Transfer size: 100\*75mm
- Quantity: 1-2 piece(s)
- Dimension: 180×130×160mm (L×W×H)



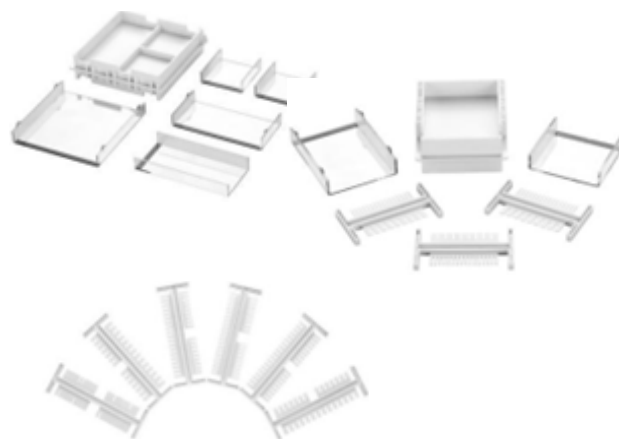
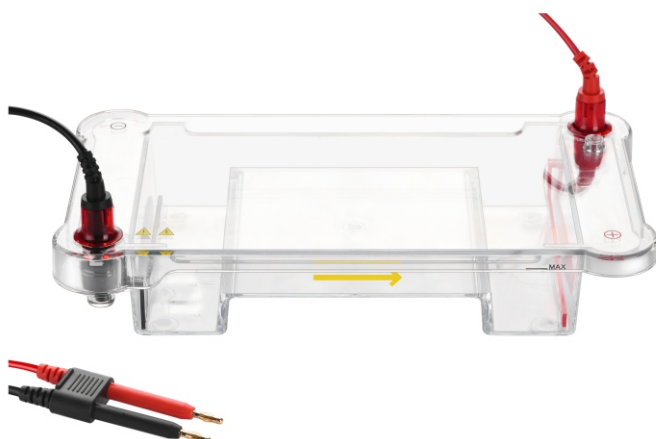
# Horizontal Electrophoresis Cells

## Advantages

- The arc-spark stand is snap-fit to avoid leakage due to aging of rubber gasket caused by traditional plastic screw tightening.
- The power cord connection is snap-fit, easy for replacement.
- Silkscreen indicates electrophoresis direction to put electrophoresis samples into the right electrode in order not running into the buffer.
- 0.25 mm 99.99% of platinum wire is used, 56% more than diameter of ordinary electrophoresis platinum wire, to improve the life of the product.
- Integral injection molding of imported polycarbonate of plastic accessories, transparent, longer lifetime.

## Features

- Separation and analysis of at most 108 samples within 20 minutes, which is advantageous in recycle of DNA fragment.
- The gel tray with fluorescent gauge is high temperature resistant, non-deforming at 100°C. Gel irrigation can be done before agarose is cooled.
- Built-in movable e-engine without washer, easy maintenance, no leakage.

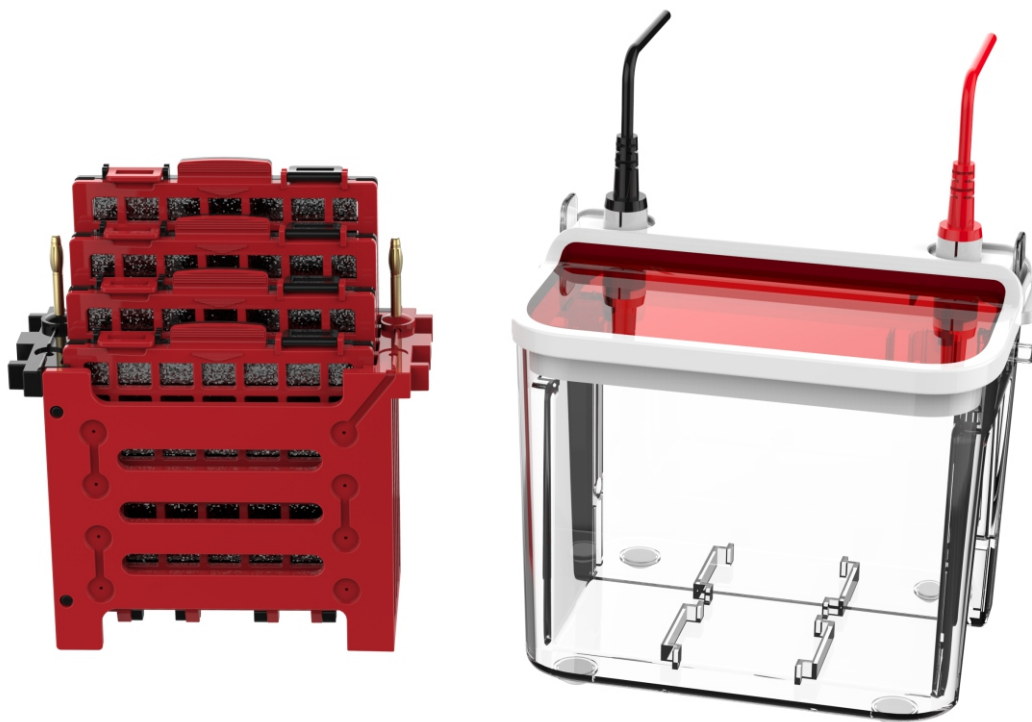


## Specifications

Model	MDNA01 Multipurpose Horizontal Electrophoresis Cell	MDNA02 Mini Horizontal Electrophoresis Cell
Gel Size	130 × 130 mm, 130 × 65 mm, 65 × 130 mm, 65 × 65 mm	70 × 70 mm, 70 × 100 mm
Combs	0.75 mm : 7+7 wells/14 wells, 9+9 wells/19 wells; 1.0 mm : 12+12 wells/27 wells, 1.5 mm : 7+7 wells/14 wells; 9+9 wells/19 wells, 2.0 mm : 3+2 wells/3+3 wells	0.75 mm : 9wells/16 wells; 1.0 mm : 9 wells/16 wells; 1.5 mm : 9 wells/16 wells
Max Samples	108 (PCR-Comb 27 wells*4 rows)	32
Buffer Volume	1000 ml	260 ml
Dimension (mm)	300×170×80 (L×W×H)	260×110×80 (L×W×H)
Weight (kg)	1.1	0.6

## Mini Vertical Blot Cells (4 gels)

Cat No MBL0T01



### Features

- Transferring protein sample to nitrocellulose membrane, PVDF membrane etc. Four transfer plates are available.
- High-current fast transfer and low-current overnight transfer are available. Built-in freeze block absorbs heat efficiently.

### Specifications

- Transfer size: 110\*90mm
- Quantity: 1-4 piece(s)
- Platinum electrode:  $\phi 0.25$ mm
- Dimension: 135×180×180mm (L×W×H)

### Accessories

- Platinum wire electrode plate
- Blot Clips + sponges
- Including with 1 multi-purpose centrifuge tube support with 91 pieces of different sizes and 1 support for glass plates
- O2 cooling units
- An external circulating cooling power supply can be used together to reduce the temperature during transfer to ensure the transfer effect.

# Rapid Blot Transfer System

Cat no. RAPID01

The Rapid Blot Transfer System is a high-performance western blotting transfer system designed to provide rapid transfers with high efficiency. The system enables blot transfer of protein in as little as 3 minutes without losing efficiency when compared with traditional tank protein blotting. The Rapid Blot Transfer System comes with optional optimized buffer, membrane, and filter paper combination that provides excellent blot transfers. Protein blotting consumables are available in a ready-to-use, pre-packaged stack or in bulk quantities. It works with traditional consumables as well.



## Features

- Blot throughput: 4 mini gels or 2 midi gels; 2 blot cassettes, one of the two cassettes can be used for operation or two cassettes can be used respectively in the right orders.
- Two independent blot programs can be used at the same time. The blot area is 15.5x11x2 cm.
- The unique design for highly efficient heat dissipation channel to dissipate the heat during the run and ensure the reliability and safety of experiment.
- Temperature: 5°C~40°C; Relative moisture: 20%~80%.
- Easy operation, ready-to-use blot consumable packages are also available, no need to prepare buffer and membrane;
- Blot speed: blotting 2 mini gels within 3 minutes, blotting 4 mini gels or 2 midi gels within 7 minutes.
- Transfers a wide range of proteins (10-260 kDa).
- Compatible with both nitrocellulose and PVDF transfer membranes.
- Built-in integrated power supply, voltage 0-30V (1V adjustable) current (0-3A) (0.1 adjustable).
- 5-inch capacitive touch screen for convenient operation and programming.
- The preset program guides the user to design experiments and can be modified manually.
- 9 positions are available for preloaded/custom program storage.
- Carefully designed Electrodes enhances the performance and longevity of the product. Buckle locking mode with plate electrode design ensure uniformity of pressure and field strength during the run.
- Open system that supports compatible, traditional lab reagent and consumable as well.
- Standard Configuration: 1 set of Blot System (including built-in power supply and 2 pieces of blot cassettes).
- Dimension (mm): 290x220x200, Weight: 3.9 kg.

# Electrophoresis Power Supplies

A high-quality Electrophoresis power supply that comes with world class style and safety. Output: constant voltage, constant current and constant power.

Protein function: Under constant 80V, protein electrophoresis is to run spacer gel for 30min, and then run separating gel under constant 120V. Automatic switching from spacer gel mode to separated gel mode, reducing the tedious manual reset.

Power supply designed with LCD display, showing simultaneously of voltage, current, power and timing.

## Features

- Output: constant voltage, constant current and constant power.
- Automatic adjustment: Any one of constant voltage, constant current and constant power is set constant value, the rest are set automatically, which avoids the manual working and phenomenon of false-constant value.
- Micro-current mode: micro-current mode is triggered automatically once the electrophoresis activity is finished, which avoids the diffusion of sample and idle work.
- Protein function: Under constant 80V, protein electrophoresis is to run spacer gel for 30min, and then run separating gel under constant 120V. Automatic switching from spacer gel mode to separated gel mode, reducing the tedious manual reset.
- Safety: Automatic monitor of over-voltage, voltaic arc, no load, sudden change of load, overload, and short circuit. Leakage protection, function of pause, alarming of open circuit
- Others: LCD readable voltage, current, power, time set. 4 -group parallel connection with multi-electrophoresis apparatus. Storage of 20 programs with each less than 10 steps.

Model	Bs300 Basic Electrophoresis Power Supply	UN600 Universal Electrophoresis Power Supply	HC3000 High Current Electrophoresis Power Supply
Output	300V/400mA/75 W	600V/1200mA/500W	250V/3000mA/300W
Display	192×64LCD		
Sensitive Limit	Voltage 1V, Current: 1mA, Power: 1W, Time: 1min		
Throughput	4-group Parallel Connection		
Time Set	1min-99h59min		
Dimension (mm)	300×240×100 (L×W×H)		
Weight (kg)	2.0	2.5	2.5

## Automatic Western Blot Processing

### Cat No AUTOWEST01

- This is a Automatic, high throughput instrument with good repeatability of experiment.
- Different sample incubation tanks are controlled by different independent programs to facilitate the arrangement of experiment.
- Mechanical arm type for adding primary antibody and secondary antibody.
- Compact size, large touch screen and advance user friendly design.
- Fully automated: no need manual operation after the reagent addition.
- Flexible throughout: 12 incubation tanks. Each incubation tank is filled with different primary antibodies and secondary antibodies, at most 24 membranes can be dealt simultaneously.
- Available sizes of incubation tanks: 30×80mm, 64×80mm and 98×80mm
- Automatic recycle of primary antibody and secondary antibody which can be used ten times.
- Automatic pipe washing and removing the residual reagent when program ends.
- The interface indicates the real time condition of every mode.
- The washing buffer can stay in sample tray so as to keep the membrane wet.
- Compatible with many brands of consumables.



# Gel Shakers



Product	Circular Shaker	Circular Shaker	Linear Shaker	Linear Shaker
Circular Motion	10 mm	20 mm	10 mm	20 mm
Max Load	7.5 kg	3 kg	7.5 kg	3 kg
Motor	Brushless DC	DC	Brushless DC	DC
Speed	100~500 rpm	40~200 rpm	100~350 rpm	40~200 rpm
Speed/Timer Indicator	LCD			
Time Range	1 min-19h59min			
Voltage	100~240 V, 50/60 Hz			
Power	20 W	20 W	20 W	20 W
Product	Tilting Shaker	Tilting Shaker	3D Shaker	3D Shaker
Model	GELT330	GELT180	GELD330	GELD180
Angle of inclination	10°	7°	10°	7°
Max Load	10 kg	3 kg	5 kg	3 kg
Motor	DC Motor			
Speed	10~70 rpm	10~80 rpm	10~70 rpm	10~80 rpm
Speed/Timer Indicator	LCD			
Time Range	1 min -19h59 min			
Voltage	100~240V, 50/60Hz			
Power	40 W	20 W	50 W	20 W

# Dry Baths



Model	DBHCS01	DBHS01	DBHC01
Function	Heating, Cooling and mixing	Heating and Mixing	Heating and Cooling
Temperature Range	15 °C below RT to 100°C	5°C +RT to 100 °C	25°C below RT to 100 °C
Temperature Set Range	0.1°C~100°C	15°C~100°C	-5°C/100°C
The Deviation Range	± 0.1°C		
Temperature Uniformity	± 0.5°C		
Speed Adjustment	300-2000		-
Mixing Diameter	3		
Screen	LCD		
Maximum Program Number	9		
Input Voltage	100-240V, 50Hz/60Hz		
Power	200 W	200 W	200 W
Time Set Range	1min~99h59 min		
Ambient Range	5~40°C/ RH upto 80%		

# Microspectrophotometer

**Model : DD01Pro**

Micro-Volume & Cuvette



### Technical Specification

Wavelength Range	200 - 800 nm
Wavelength Accuracy	1 nm
Minimum Sample Size	0.5~2.0 $\mu$ l
Path Length	0.05 mm, 0.2 mm, 1.0 mm
Light Source	Xenon flash lamp, long life
Detector	Linear silicon CCD array
Spectral Resolution	$\leq$ 3nm (FWHM at Hg 546nm)
Absorbance Precision	0.003 Abs
Absorbance Range	0.02 - 300 A (10 mm equivalent)
Absorbance Accuracy	1 % (7.332 Abs at 260 nm)
Detects Nucleic acid up to	2 ~ 15000 ng / $\mu$ l (ds DNA), High range without dilution
Measurement Time	< 6s
Cuvette (OD 600)	0 - 12 A
Sample Pedestal Material	304 Stainless Steel and Quartz fiber
Operation System	Android
Data Export	USB Stick, Image and Excel Table can be exported
Operating Voltage	12 V DC
Operating Power Consumption	48 W, 5 W standby
Dimension (mm)	270 $\times$ 210 $\times$ 196 (mm)
Weight	3.5 kg

Autoclaves



Micro-Volume Spectro



Centrifuges



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Electrophoresis Solution

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