Biological Indicator Incubator

B80

Description:

- The B80 Biological Indicator Incubator is compact, versatile, reliable and easy to use. It is designed for single temperature incubation of the EO Biological Indicators. The thermometer is included with the incubator, providing easy verification of incubation temperature.

Features:

- Energy-efficient design.
- Applicable to 24V power adapter.
- Accurate to ±0.3℃.
- Process of experiment is visible.
- Electronic calibration. User can reset to any local standard.
- Power supply provided is UL, CSA and CE approved.
- Custom blocks made to fit any sample holder.

Parameters:

Project	Parameters
Temp. control range	RT+5℃~100℃
Timing range	1min~99h
Display accuracy	0.1℃
Heating time	≤6min(from 20℃~56℃)
Dimension(mm)	145×113×110

Project	Parameters
Temp. accuracy	≤±0.3℃
Temp. uniformity	≤±0.3℃
Temp. stability	±0.3℃
Voltage	DC24V/1.67A
Weight(kg)	0.5

Optional Blocks:

Type	Diameter	Capacity
MD40	Φ10mm	15
MD41	Φ12mm	12
MD42	Φ15mm	8

Type	Diameter	Capacity
MD43	Φ16mm	8
MD45	Φ9mm	18
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Biological Indicator Incubator

Bit1000/Bit1000-S

Description:

- Bit1000/Bit1000-S is a sample incubation equipment based on film heating and PID automatic temperature control technology. Flexible independent timing and constant temperature function improve the efficiency of the laboratory work, which is the ideal equipment for biological indicators incubation.

Features:

- Easy to set up and use, all information real-time display and showing set up operation, convenient to observe equipment running status.
- High temperature control precision.
- Wide time range from 1min to 99h59min.
- Up to 7groups samples can be incubated. Each group countdowns independently at a time.
- Temperature calibration function.
- Built-in software and hardware over-temperature protection device.

Parameters:

Project	Parameters
Temp. setting range	0℃~100℃
Timing range	1min ~ 99h59min/∞
Display accuracy	0.1℃
Heating time	≤12min(from 25℃ to 100℃)*
Power	150W
Fuse	250V 3A Φ5×20
Weight(kg)	2.5

Project	Parameters
Temp. control range	RT+5℃~100℃
Temp. accuracy	≤±0.3℃*
Temp. uniformity	≤±0.3℃*
Auto running	Yes
Voltage	AC220V or AC110V, 50/60Hz
Dimension(mm)	260x195x150
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Optional Blocks：

Type	Capacity	Remark
RC02 044 001	35xΦ9mm	Only for Bit1000
RC02 044 003	28xΦ12mm	Only for Bit1000-S

Type	Capacity	Remark
RC02 044 002	35xΦ10mm	Only for Bit1000
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Dry Bath Incubator

DH100 series

Description:

- DH100 series high temperature Dry Bath Incubator controlled by microcomputer, use high purity aluminum material as a heat conduction medium instead of the traditional water bath device. It can be widely used in the sample preservation, reaction of DNA amplification, electrophoresis, degeneration, solidification and other kinds of serum biochemical sample thermostatic incubation process.

Features:

- Real-time temperature display, the countdown display.
- Convenient block replacement, easy to clean and disinfect.
- Automatic fault detection and alarm function.
- Built-in over-temperature protection device.
- Temperature deviation calibration function.

Parameters:

Project	Parameters		
Product model	DH100-1	DH100-2	DH100-4
Temp.range	RT.+5C -160℃	RT.+5C -160℃	RT.+5C -130℃
Temp accuracy	±0.5℃ (@40℃)	±0.5℃ (@40℃)	±0.5℃ (@40℃)
Temp accuracy	±1℃ (@120℃)	±1℃ (@120℃)	±1℃ (@120℃)
Time range	1min-99h59min/∞	1min-99h59min/∞	1min-99h59min/∞
Temp uniformity	±0.5℃	±0.5℃	±0.5℃
Display accuracy	0.1℃	0.1℃	0.1℃
Heating time	≤15min(from 25℃ to 160℃)	≤15min(from 25℃ to 160℃)	≤20min(from 25℃ to 130℃)
Block quantity	1	2	4
Max power	300W	500W	600W
Voltage	AC220V or AC110V, 50/60Hz	AC220V or AC110V, 50/60Hz	AC220V or AC110V, 50/60Hz
Dimension(mm)	260×220×100	260×220×100	360×220×100
Weight(kg)	5.0	5.5	8.0

Optional Blocks:

Type	Diameter of test tube	Number of test tube	Type	Diameter of test tube	Number of test tube
MD01	6mm	48	MD10	26mm	8
MD02	7mm	48	MD11	28mm	4
MD03	10mm	24	MD12	40mm	3
MD04	12mm	24	MD13	0.2ml centrifuge tube	48
MD05	13mm	24	MD14	0.5ml centrifuge tube	48
MD06	15mm	16	MD15	1.5ml centrifuge tube	24
MD07	16mm	16	MD16	2.0ml centrifuge tube	24
MD08	19mm	12	MD17	0.2ml PCR plate	96
MD09	20mm	12	MD18	0.2ml Elisa plate	96

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Dry Bath Incubator

MiniBox & Minibox-C

Description:

- MiniBox/Minibox-C is a microprocessor-controlled product. It is widely used in preservation and reaction of samples, DNA amplification and initial denaturation of electrophoresis and so forth. It fits almost anywhere and can even be used in cars, boats or wherever a 100~240V power source is available.

Features:

- Compact, fits on any crowded benchtop.
- Various blocks for optional choice.
- Custom blocks available upon request.
- Built-in over-temperature protection device.
- Automatic fault detection function with buzzer alarm.

Parameters:

Project	Parameters	
Product model	MiniBox	MiniBox-C
Temp. setting range	0℃ ~ 100℃	0℃ ~ 100℃
Temp. control range	RT.+5℃ ~ 100℃	RT.-20℃ ~ 100℃
Timing range	1sec ~ 99min59sec/∞	1sec ~ 99min59sec/∞
Temp. accuracy	≤±0.3℃*	≤±0.3℃*
Temp. uniformity	≤±0.3℃*	≤±0.3℃*
Display accuracy	0.1℃	0.1℃
Heating time	≤20min(from 40℃ to100℃)*	≤20min(from 25℃ to100℃)*
Cooling time 1	---	≤20min(from 100℃ to 25℃)*
Cooling time 2	---	≤25min(from RT. to RT.-15℃)*
AUTO-4℃	---	Yes*
Multi points running	---	Yes(Max 5 points)
Multi cycle	---	Yes(Max 99 times)
Auto running	---	Yes
Auto heating	---	Yes
Auto resume to run	---	Yes
Power	40W	60W
Voltage	DC24V/1.67A	DC12V/5A
Dimensions(W×D×H)	145×113×110	145×113×140
Weight(kg)	0.5	1.0

Optional Blocks:

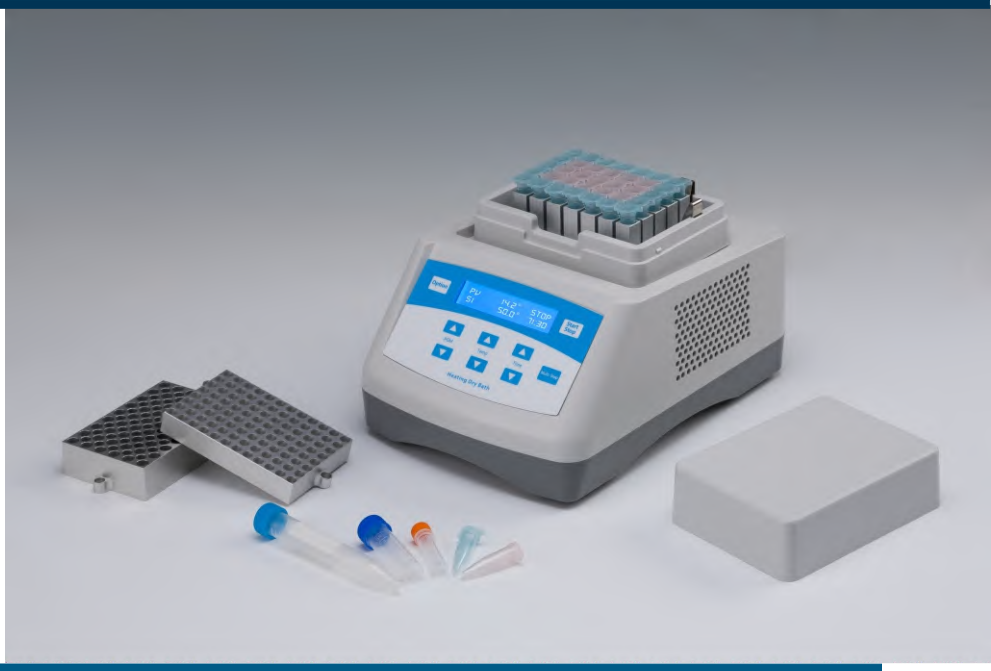
Type	Description	Type	Description
MiniBoxA	15×2.0ml	MiniBoxD	32×0.2ml (for 0.2ml PCR 8-tube strip)
MiniBoxB	15×1.5ml	MiniBoxF	32×0.2ml (for 0.2ml Elisa 8-well strip)
MiniBoxC	24×0.5ml	---	---

Dry Bath Incubator

DH300&DC10

Description:

- DH300/DC10 Dry Bath Incubator controlled by microcomputer, uses high purity aluminum material as a heat conduction medium instead of traditional water bath device. It can be widely used in preservation and reaction of samples, DNA amplification, electrophoresis denaturation and serum solidification, etc.



Features:

- LCD display. It is easy to set up and use.
- Different blocks for a wide variety of tube sizes.
- Easy replacement, cleaning and disinfecting of metal blocks.
- Automatic fault detection and buzzer alarm function.
- Built-in over-temperature protection.
- Temperature calibration function.

Parameters:

Project	Parameters	
Product model	DH300	DC10
Temp. setting range	0℃ ~ 100℃	-10℃ ~ 100℃
Temp. control range	RT.+5℃ ~ 100℃	RT.-30℃ ~ 100℃
Timing range	1min ~ 99min59sec/∞	1min ~ 99min59sec/∞
Temp. accuracy	≤±0.3℃*	≤±0.3℃*
Temp. uniformity	≤±0.3℃*	≤±0.3℃*
Display accuracy	0.1℃	0.1℃
Heating time	≤12min(from 25℃ to100℃)*	≤10min(from 25℃ to100℃)*
Cooling time 1	---	≤10min(from 100℃ to 25℃)*
Cooling time 2	---	≤25min(from RT. to RT.-30℃)*
AUTO-4℃	---	Yes*
Multi points running	---	Yes(Max 5 points)
Multi cycle	---	Yes(Max 99 times)
Auto running	---	Yes
Auto heating	---	Yes
Auto resume to run	---	Yes
Power	150W	150W
Voltage	AC220V or AC110V, 50/60Hz	AC100~240V, 50/60Hz
Dimensions(W×D×H)	260×195×150	260×195×150
Weight(kg)	2.5	4.5

Optional Blocks:

Type	Test tube and aperture	Type	Test tube and aperture
MD30	96×0.2ml	MD36	24×5ml
MD31	54×0.5ml	MD37	15×10ml
MD32	35×1.5ml	MD38	12×15ml
MD33	35×2.0ml	MD39	6×50ml(round-shape bottom)
MD34	15×0.5ml+20×1.5ml	MD39-S	6×50ml(cone-shape bottom)
MD35	96×0.2ml(elisa plate)	---	---

Dry Bath Incubator

DH200

Description:

- DH200 Dry Bath Incubator is a microprocessor-controlled dry block heating system with highly precise temperature control, making it an alternative to the traditional water bath devices. It is widely used in the sample preservation, reaction of DNA amplification, electrophoresis, degeneration, solidification and other kinds of serum biochemical sample thermostatic incubation process.

Features:

- LCD display, simple interface. Easy to set up and use.
- Blue transparent lid prevents samples splashing out.
- Accurate temperature control, high stability.
- With four groups(A/B/C/D), timing independently or simultaneously.
- Optional blocks are available for common laboratory tubes and plates. Custom blocks are also available upon request.
- Built-in temperature calibration function.
- Built-in over-heating protection device, safe and reliable.

Parameters:

Project	Parameters
Temp. setting range	0℃~110℃
Timing range	1min ~ 99h59min/∞
Display accuracy	0.1℃
Heating time	≤20min(from 25℃ to 110℃)*
Timing independently for each group	Yes
Auto running	Yes
Power	500W
Fuse	250V 3A Φ5×20
Weight(kg)	8.0

Project	Parameters
Temp. control range	RT+5℃~110℃
Temp. accuracy	≤±0.3℃ @37℃*
Temp. uniformity	≤±0.3℃ @37℃*
Block quantity	4
Auto heating	Yes
Auto resume to run	Yes
Voltage	AC220V or AC110V, 50/60Hz
Dimension(mm)	370x254x228
___	___

Optional Blocks:

Type	Diameter of test tube	Number of test tube
MD01	6mm	48
MD02	7mm	48
MD03	10mm	24
MD04	12mm	24
MD05	13mm	24
MD06	15mm	16
MD07	16mm	16
MD08	19mm	12
MD09	20mm	12

Type	Diameter of test tube	Number of test tube
MD10	26mm	8
MD11	28mm	4
MD12	40mm	3
MD13	0.2ml centrifuge tube	48
MD14	0.5ml centrifuge tube	48
MD15	1.5ml centrifuge tube	24
MD16	2.0ml centrifuge tube	24
MD17	0.2ml PCR plate	96
MD18	0.2ml Elisa plate	96

Dry Bath Incubator

ES2000

Description:

- ES2000 Dry Bath Incubator is a microprocessor-controlled dry block heating system with highly precise temperature control, making it an alternative to the traditional water bath devices. Timing flexible, constant temperature function and two-group independent temperature control mode are effectively improving the efficiency of the laboratory work. It is the ideal equipment, applying to kinds of sample incubation, catalyze, save and etc.

Features:

- LCD display, simple interface. Easy to set up and use.
- Accurate temperature control, high stability.
- Unique two-group(A/B) temperature control realizes running independently or simultaneously.
- One operation interface can realize two-group temperature and timing setting independently or simultaneously.
- Different kinds of aluminum blocks are available. Block can be customized.
- Built-in temperature calibration function.
- Built-in over-heating protection device, safe and reliable.

Parameters:

Project	Parameters	Project	Parameters
Temp. setting range	0℃~100℃	Temp. control range	RT+5℃~100℃
Timing range	1min ~ 99h59min/∞	Temp. accuracy	≤±0.3℃ @37℃*
Display accuracy	0.1℃	Temp. uniformity	≤±0.3℃ @37℃*
Heating time	≤15min(from 25℃ to 100℃)*	Auto running	Yes
Temperature control group	2	Auto heating	Yes
Block quantity	4	Auto resume to run	Yes
Power	240W	Voltage	AC110V or AC220V, 50/60Hz
Fuse	250V 3A Φ5×20	Dimension(mm)	370x254x217
Weight(kg)	5.0	–––	–––

Optional Blocks:

Type	Capacity	Type	Capacity
MiniBoxA	15x2.0ml centrifuge tube	MD40	15xΦ10mm
MiniBoxB	15×1.5ml centrifuge tube	MD41	12xΦ12mm
MiniBoxC	24×0.5ml centrifuge tube	MD42	8xΦ15mm
MiniBoxD	32×0.2ml centrifuge tube	MD43	8xΦ16mm

Dry Bath Incubator(heating lid)

ES1000

Description:

- ES1000 Dry Bath Incubator is a semi-conductor controlled heating & cooling instrument with automatic temperature control design. The flexible timer, constant temperature function and multi-point operation mode make it a unique and an ideal lab instrument.

Features:

- Instantly displays operation information on the LCD screen.
- Has combined temperature control system and block system. Each block has a built-in temperature sensor and heating/cooling unit, ensuring that temperature control is more accurate and the heating speed is much faster.
- Blocks are interchangeable and auto-recognized.
- Adjustable heating lid. Temperature of heating lid can be controlled.
- Auto restart in case of power failure.
- Built-in over-temperature protection device.
- Built-in temperature calibration function.

Parameters:

Project	Parameters	
Block	ES series	ESC series
Temp. setting range	0℃~100℃	-10℃~100℃
Temp. control range	RT+5℃~100℃	RT.-25℃~100℃
Temp. accuracy	≤±0.3℃@37℃*	≤±0.3℃@37℃*
Temp. uniformity	≤±0.3℃@37℃*	≤±0.3℃@37℃*
Display accuracy	0.1℃	0.1℃
Timing range	1sec~99h59min/∞	1sec~99h59min/∞
Heating time	≤12min(from 25℃ to 100℃)*	≤12min(from 25℃ to 100℃)*
Cooling time	---	≤12min(from 100℃ to 25℃)*
Cooling time	---	≤25min(from RT. to RT.-25℃)*
Heating lid temp setting range	OFF~ +10℃	OFF~ +10℃
Heating lid temp accuracy	≤±0.5℃*	≤±0.5℃*
Heating lid heating time	≤10min(from 25℃ to 100℃)*	≤10min(from 25℃ to 100℃)*
Storage at 4℃	---	Yes
Multi points running	Yes(Max 5 points)	Yes(Max 5 points)
Multi cycle	Yes(Max 99 times)	Yes(Max 99 times)
Power	150W	150W
Voltage	AC110 or AC220V/50-60HZ	AC110 or AC220V/50-60HZ
Fuse	250V 3A Φ5×20	250V 3A Φ5×20
Dimension(mm)	300×200×210	300×200×210
Weight(kg)	4.0	4.7

Optional Blocks:

Type	Capacity	Temp. range
ESC-01	35x2.0ml centrifuge tube	RT-25℃~100℃
ESC-02	35x1.5ml centrifuge tube	RT-25℃~100℃
ESC-03	54x0.5ml centrifuge tube	RT-25℃~100℃
ESC-04	96x0.2ml PCR centrifuge tube	RT-25℃~100℃
ESC-05	96x0.2ml Elisa plate	RT-25℃~100℃

Type	Capacity	Temp. range
ES-06	35x2.0ml centrifuge tube	RT+5℃~100℃
ES-07	35x1.5ml centrifuge tube	RT+5℃~100℃
ES-08	54x0.5ml centrifuge tube	RT+5℃~100℃
ES-09	96x0.2ml PCR centrifuge tube	RT+5℃~100℃
ES-10	96x0.2ml Elisa plate	RT+5℃~100℃

Thermostat Water Bath

W2L Series

Description:

W2L Series Thermostat Water Bath is a temperature-controlled thermostat bath equipment. This durable and dependable water bath comes with a variety of safety and convenience features. It has a unique lid design that allows condensation to drain back into the tank without spilling onto the work area. High efficiency insulation maintains temperature stability and uniformity within the bath, while keeping the housing cool to the touch.

Features:

- Digital set-up for temperature and time with independent LED display.
- Microprocessor control, uniform temperature control, high precision.
- Easy-to-clean stainless steel inner tank, with unique sealing structure to avoid water leakage.
- The side of tank is equipped with an independent drain, which can easily drain the sewage after cleaning.
- The lid's gabled design will divert condensation to the front and back of the tank, away from samples.
- Over-heating protection device is included.

Parameters:

Project	Parameters		
Product model	W2L-1	W2L-2	W2L-3
Temp. setting range	0℃~100℃	0℃~100℃	0℃~100℃
Temp. control range	RT. +5℃~100℃	RT. +5℃~100℃	RT. +5℃~100℃
Timing range	1min-99h59min/∞	1min-99h59min/∞	1min-99h59min/∞
Temp. accuracy	≤±0.3℃(@37℃)	≤±0.3℃(@37℃)	≤±0.3℃(@37℃)
Display accuracy	0.1℃	0.1℃	0.1℃
Temp uniformity	≤±0.3℃(@37℃)	≤±0.3℃(@37℃)	≤±0.3℃(@37℃)
Heating time	≤30min(from 25℃ to 100℃)	≤30min(from 25℃ to 100℃)	≤30min(from 25℃ to 100℃)
Number of tank	1	2	3
Tank capacity	1x2L	2x2L	3x2L
Working area	125x100x115mm	125x100x115mmX2	125x100x115mmX3
Power	300W	600W	900W
Voltage	AC110V or 220V, 50/60Hz	AC110V or 220V, 50/60Hz	AC110V or 220V, 50/60Hz
Dimension(mm)	206x254x310	397x254x310	588x254x310
Weight(kg)	2.2	5.5	8.5

Thermostat Water Bath

W5L-1

Description:

- W5L-1 Thermostat Water Bath is a temperature-controlled thermostat bath equipment. This durable and dependable water bath comes with a variety of safety and convenience features. It has a unique lid design that allows condensation to drain back into the tank without spilling onto the work area. High efficiency insulation maintains temperature stability and uniformity within the bath, while keeping the housing cool to the touch.

Features:

- Digital set-up for temperature and time with independent LED display.
- Microprocessor control, uniform temperature control, high precision.
- Easy-to-clean stainless steel inner tank, with unique sealing structure to avoid water leakage.
- The side of tank is equipped with an independent drain, which can easily drain the sewage after cleaning.
- The lid's gabled design will divert condensation to the front and back of the tank, away from samples.
- Over-heating protection device is included.

Parameters:

Project	Parameters
Temp. setting range	0℃~100℃
Temp. control range	RT. +5℃~100℃
Temp. accuracy	≤±0.3℃(@37℃)
Display accuracy	0.1℃
Temp uniformity	≤±0.3℃(@37℃)
Voltage	AC110V or 220V, 50/60Hz
Weight(kg)	5.1

Project	Parameters
Timing range	1min-99h59min/∞
Heating time	≤30min(from 25℃ to 100℃)
Tank capacity	5L
Working area	263x120x115mm
Power	900W
Dimension(mm)	355x270x306
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Thermo Shaker

TS100&TCS10

Features:

- LCD display. It is easy to set up and use.
- Exchangeable blocks for a wide variety of tube sizes.
- Precision wells for uniform thermal transfer.
- Brushless DC motor: noiseless long service life maintenance free.
- Automatic fault detection and buzzer alarm function.
- Built-in over-temperature protection.
- Temperature calibration function.

Application:

- Maintaining14°C for ligation reactions.
- Maintaining17°C for storing oocytes.
- Storing samples at ice bucket temperatures.
- Storing enzymes or DNA libraries at work station.
- Transporting samples from the field at exactly the right temperature.
- Heating samples in the field.
- Enzyme reactions and deactivations.
- PCR sample preparation.

Description:

- TS100/TCS10 Thermo Shaker is a temperature controlled shaker, which is used for a variety of molecular biology applications. Speed, time and temperature settings are continuously visible on the LCD, simultaneously showing both actual and selected values. Integral over-temperature control ensures long time, safety and sample integrity.

Parameters:

Project	Parameters	
Product model	TS100	TCS10
Temp. setting range	0℃ ~ 100℃	0℃ ~ 100℃
Temp. control range	RT.+5℃ ~ 100℃	RT.-20℃ ~ 100℃
Timing range	1min ~ 99min59sec/∞	1min ~ 99min59sec/∞
Temp. accuracy	≤±0.3℃*	≤±0.3℃*
Temp. uniformity	≤±0.3℃*	≤±0.3℃*
Display accuracy	0.1℃	0.1℃
Speed range	200~1800rpm	200~1500rpm
Orbit	3mm	3mm
Heating time	≤12min(from 25℃ to 100℃)*	≤15min(from 25℃ to 100℃)*
Cooling time 1	---	≤10min(from 100℃ to 25℃)*
Cooling time 2	---	≤15min(from RT. to RT.-20℃)*
AUTO-4℃	---	Yes*
Multi points running	---	Yes(Max 5 points)
Multi cycle	---	Yes(Max 99 times)
Auto running	---	Yes
Auto heating	---	Yes
Auto resume to run	---	Yes
Power	150W	150W
Voltage	AC220V or AC110V, 50/60Hz	AC100~240V, 50/60Hz
Dimensions(W×D×H)	260×195×150	260×195×150
Weight(kg)	7.0	7.5

Optional Blocks:

Type	Test tube and aperture	Type	Test tube and aperture
MD30	96×0.2ml	MD36	24×5ml
MD31	54×0.5ml	MD37	15×10ml
MD32	35×1.5ml	MD38	12×15ml
MD33	35×2.0ml	MD39	6×50ml(round-shape bottom)
MD34	15×0.5ml+20×1.5ml	MD39-S	6×50ml(cone-shape bottom)
MD35	96×0.2ml(elisa plate)	---	---

Sample Concentrator

ND100-1&ND100-2

Description:

- ND100-1/ND100-2 Sample Concentrator is with microprocessor controlled and PID fuzzy controlled technique. It works by blowing nitrogen in the surface of sample which is being heated to accelerate evaporating and separating the solvent in the samples without oxygen. It can used in residue analysis, commodity inspection, food, environment, pharmacy and biological product and other industries.

Features:

- Easy operation; safe and reliable to use.
- High precision and wide range of temperature control.
- Blowing a large number of samples at one time.
- Automatic fault detection and alarm function.
- Built-in over-temperature protection device.
- Temperature deviation calibration function.

Parameters:

Project	Parameters	
Product model	ND100-1	ND100-2
Temp. setting range	0℃ ~ 160℃	0℃ ~ 160℃
Temp. control range	RT.+5℃ ~ 160℃	RT.+5℃ ~ 160℃
Timing range	1min ~ 99min59sec/∞	1min ~ 99min59sec/∞
Temp. accuracy	≤±0.5℃(@40℃)	≤±0.5℃(@40℃)
Temp. accuracy	≤±1℃(@120℃)	≤±1℃(@120℃)
Temp. uniformity	≤±0.5℃	≤±0.5℃
Display accuracy	0.1℃	0.1℃
Heating time	≤15min(from 25℃ to 160℃)	≤15min(from 25℃ to 160℃)
Max vertical travel	200mm	200mm
Nitrogen flow rate	15L/min	15L/min
Nitrogen pressure	0.02Mpa(Gas needle≤16pcs) 0.05Mpa(Gas needle>16pcs)	0.02Mpa(Gas needle≤16pcs) 0.05Mpa(Gas needle>16pcs)
Block quantity	1	2
Voltage	AC220V or AC110V, 50/60Hz	AC220V or AC110V, 50/60Hz
Power	300W	500W
Dimensions(W×D×H)	260×220×450	260×220×450
Weight(kg)	7.0	7.5

Optional Blocks:

Type	Test tube diameter	Capacity	Type	Test tube diameter	Capacity
MD03	10mm	24	MD09	20mm	12
MD04	12mm	24	MD10	26mm	8
MD05	13mm	16	MD11	28mm	4
MD06	15mm	16	MD12	40mm	3
MD07	16mm	16	MD15	1.5ml(centrifuge tube)	24
MD08	19mm	12	MD16	2.0ml(centrifuge tube)	24

Sample Concentrator

ND200-1&ND200-2

Description:

- ND200-1/ND200-2 Sample Concentrator is with microprocessor controlled and PID fuzzy controlled technique. It works by blowing nitrogen in the surface of sample which is being heated to accelerate evaporating and separating the solvent in the samples without oxygen. It can used in residue analysis, commodity inspection, food, environment, pharmacy and biological product and other industries.

Features:

- Easy operation; safe and reliable to use.
- High precision and wide range of temperature control.
- Blowing a large number of samples at one time.
- Blowing each sample independently.
- Amount of airflow can be adjusted.
- Automatic fault detection and alarm function.
- Built-in over-temperature protection device.
- Temperature deviation calibration function.

Parameters:

Project	Parameters	
Product model	ND200-1	ND200-2
Temp. setting range	0℃ ~ 160℃	0℃ ~ 160℃
Temp. control range	RT.+5℃ ~ 160℃	RT.+5℃ ~ 160℃
Timing range	1min ~ 99min59sec/∞	1min ~ 99min59sec/∞
Temp. accuracy	≤±0.5℃(@40℃)	≤±0.5℃(@40℃)
Temp. accuracy	≤±1℃(@120℃)	≤±1℃(@120℃)
Temp. uniformity	≤±0.5℃	≤±0.5℃
Display accuracy	0.1℃	0.1℃
Heating time	≤15min(from 25℃ to 160℃)	≤15min(from 25℃ to 160℃)
Max vertical travel	200mm	200mm
Nitrogen flow rate	15L/min	15L/min
Nitrogen pressure	0.1Mpa	0.1Mpa
Block quantity	1	2
Voltage	AC220V or AC110V, 50/60Hz	AC220V or AC110V, 50/60Hz
Power	300W	500W
Dimensions(W×D×H)	260×220×475	260×220×475
Weight(kg)	6.0	7.5

Optional Blocks:

Type	Test tube diameter	Capacity	Type	Test tube diameter	Capacity
MD50	10mm	12	MD54	16mm	12
MD51	12mm	12	MD55	19mm	12
MD52	13mm	12	MD56	20mm	12
MD53	15mm	12	---	---	---

Sample Concentrator (visible)

ND400

Description:

- ND400 Sample Concentrator (visible) is a high precision temperature control instrument with microprocessor controlled and PID fuzzy controlled technique, its working principle is to blow nitrogen rapid, continuous on the heating surface of the sample. Instead of traditional water bath device, this adopts heat-conducting medium, which is high purity aluminum with good heat transfer. The Test tubes are held in a block, and blowing a large number of samples at one time.It can be used in residue analysis, commodity inspection, food, environment, pharmacy and biological product and other industries.

Features:

- High precision and wide range of temp control.
- Blowing a large number of samples at one time.
- Blowing each sample independently.
- Amount of airflow can be adjusted.
- With special slotting-design block, surface location of concentrated samples can be observed.
- Easy operation; safe and reliable to use.

Parameters:

Project	Parameters
Temp. control range	RT.+5℃-160℃
Temp. uniformity	≤±0.5℃
Display accuracy	0.1℃
Heating time	≤15min(from 25℃ to 160℃)
Nitrogen flow rate	15L/min
Nitrogen pressure	0.1Mpa
Max power	500W
Dimension(mm)	260x220x475

Project	Parameters
Temp. accuracy	±0.5℃(@40℃)
Temp. accuracy	±1℃(@120℃)
Timing range	1min-99h59min/∞
Needle length	150mm
Block quantity	1
Voltage	AC220V or AC110V, 50/60Hz
Weight(kg)	7.3
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Optional Blocks:

Type	Diameter	Depth	Capacity
RC02 027 001	10.5mm	50mm	12
RC02 027 002	12.5mm	50mm	12
RC02 027 003	13.5mm	50mm	12
RC02 027 004	15.5mm	50mm	12

Type	Diameter	Depth	Capacity
RC02 027 005	16.5mm	50mm	12
RC02 027 006	19.5mm	50mm	12
RC02 027 007	20.5mm	50mm	12
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Sample Concentrator

ND300-1

Description:

- ND300-1 Sample concentrator is a high precision temperature control instrument with microprocessor controlled and PID fuzzy controlled technique. It works by blowing nitrogen in the surface of sample which is being heated to accelerate evaporating and separating the solvent in the samples without oxygen. Instead of rotary evaporation instrument, nitrogen sample concentrator can efficiently concentrate a large of samples simultaneously.

Features:

- High precision and wide range of temp control.
- Blowing a large number of samples at one time.
- Blowing each sample independently.
- Easy operation; safe and reliable to use.

Parameters:

Project	Parameters
Temp. control range	RT.+5℃-160℃
Temp. uniformity	≤±0.5℃
Display accuracy	0.1℃
Heating time	≤15min(from 25℃ to 160℃)
Max gas usage	15L/min
Max gas pressure	0.05Mpa
Max power	500W
Dimension(mm)	220x310x385

Project	Parameters
Temp. accuracy	±0.5℃(@40℃)
Temp. accuracy	±1℃(@120℃)
Timing range	1min-99h59min/∞
Max vertical travel	150mm
Block quantity	1
Voltage	AC220V or AC110V, 50/60Hz
Weight(kg)	7.5
---	---

Optional Blocks:

Type	Test tube diameter	Capacity
MD17	0.2ml PCR plate	96

Type	Test tube diameter	Capacity
MD18	Elisa plate	96

Sample Concentrator

WD1000

Description:

WD1000 Water Bath Sample Concentration consists of a base and supporting assembly, sample holder and gas distribution system. Test tubes are placed by a spring-loaded sample holder and support tray. The gas passes through the flow meter to the distribution system. Flexible tubing leads gas to valve-tube assemblies at each position. Depending on the test-tube size and solvent volume, they can be individually raised or lowered to the correct height. Needles blow gas onto the surface of the solution resulting in rapid evaporation of the solvent.

Features:

- LCD display, easy operation; safe and reliable to use.
- Water bath provides gentle heat.
- Accommodates sample in tubes(diameter 10~29mm), volume(1~ 50ml).
- 12positions, each position is numbered.
- Blowing each sample independently.
- With liquid-level sensor, have alarming function when dry heating.
- The lifting needle valve controls the gas consumption at each position.
- All parts are anti-corrosion, durable in use, easy to clean.

Parameters:

Project	Parameters
Temp. range	RT.+5℃~99℃
Time range	1min~99h59min/∞
Display accuracy	0.1℃
Temp accuracy	≤±1℃
Temp uniformity	≤±1℃ (@60℃)
Heating time	≤30min (40℃-99℃)
Samples position	12positions
Dimension(mm)	390×300×850

Project	Parameters
Tube size	φ10~φ29(liquid volume 1ml~50ml)
Max vertical travel	200mm
Max gas pressure	200Kpa
Max gas usage	15L/min
Gas joint diameter	φ8mm
Power	1000W
Fuse	250V 8A φ5×20
Weight(kg)	10

Incubator for Microplates

DH400

Description:

- DH400 Incubator for Microplates is a kind of microprocessor controlled and PID controlled incubator. It is compact, versatile, reliable and easy to use, mainly used in elisa plates(96/384 wells) or 96 wells tissue culture plates for samples cultivation of incubation.

Application:

Cytochemistry---for in situ reactions.
Immunochemistry---for immunofermentative reactions.
Biochemistry---for enzyme and protein analysis.
Molecular biology---for micro array analysis.

Features:

- LCD display.
- Easy to operate with one-touch knob.
- Microprocessor and temperature controlled with good liner, small fluctuations.
- Double heating system ensures the stability of incubation.
- Internal power supply provided is UL, CSA and CE approved.

Parameters:

Project	Parameters
Temp. control range	RT.+5℃ ~80℃
Temp. accuracy	≤±0.5℃
Temp. uniformity	≤±0.5℃
Max. height of plate	22mm
Voltage	AC220V or AC110V, 50/60Hz
Dimension(mm)	280×270×140

Project	Parameters
Timing range	1min ~ 99h59min
Display accuracy	0.1℃
Heating time	≤10min(from 25℃ to 80℃)
Capacity	2pcs microplates or culture plates
Power	120W
Weight(kg)	4.0

Incubator for Microplates

DH500

Description:

- DH500 Incubator for Microplates which PID fuzzy control technology can be accurate to ensure the temperature control precision and automatically adjust the heating rate, reduce waiting time. It is the ideal automation tool for samples hatching, catalytic reaction process of preserving, blending, save and etc.

Features:

- Easy to set up and use, all information real-time display and showing set up operation, convenient to observe equipment running status.
- Support standard microplates and deep well plates.
- Automatic preheating function.
- Automatic power recovery function.
- Temperature calibration function.
- Built-in software and hardware over temperature protection device, will use more reliable.

Parameters:

Project	Parameters
Temp. setting range	0℃~80℃
Temp. control range	RT+5℃~80℃
Timing range	1min ~ 99h59min/∞
Temp. accuracy	≤±0.5℃*
Display accuracy	0.1℃
Temp uniformity	≤±0.5℃*
Heating time	≤10min(from 25℃ to 80℃)*

Project	Parameters
Auto preheating	Yes
Auto resume to run	Yes
Capacity	4microplates or deep well plates
Power supply	300W
Voltage	AC220V or AC110V, 50/60Hz
Dimension(mm)	340x320x200
Weight(kg)	6.5

Shaker for Microplates

TS200

Description:

- TS200 Shaker for Microplates is with technique of direct brushless DC motor and PID intelligent temperature control. It is mainly used for shaking and cultivation in elisa plates (96/384 wells), or 96 wells tissue culture plates.

Features:

- LCD displays system status and parameters.
- Stable and reliable operation with high quality switch.
- Easy to operate with one touch knob.
- Setup the time within 0~100 hours, instrument will make alarm voice when completing.
- With power recovery, instrument will continue to run when power recovers from outage.

Application:

- Storing enzymes or DNA libraries at your work station.
- Transporting samples from the field at exactly the right temperature.
- Heating samples in the field.
- Enzyme reactions and deactivations.
- PCR sample preparation.

Parameters:

Project	Parameters
Temp. control range	RT.+5℃~80℃
Shaking speed	200-1600rpm
Temp. accuracy	≤±0.5℃
Temp. uniformity	≤±0.5℃
Sample capacity	2pcs microplates or culture plates
Power	150W
Dimension(mm)	280×270×140

Project	Parameters
Timing range	1min ~ 99h59min
Mixing orbit	3mm
Display accuracy	0.1℃
Heating time	≤10min (from RT. to 80℃)
Heating	Heating film
Voltage	AC220V or AC110V, 50/60Hz
Weight(kg)	7.0

Thermo Shaker for Microplates

TS300

Description:

TS300 Thermo Shaker for Microplates is a multipurpose thermostatic shaker controlled by brushless DC motor and PID intelligent temperature control technology. The PID fuzzy control technology can be accurate to ensure that the temperature control precision and automatically adjust the heating rate, reduce waiting time.
TS300 combines constant temperature and oscillation perfectly together, greatly shorten the experimental operation time, which is the ideal automation tool for samples hatching, catalytic reaction process of preserving, blending, save and etc.

Features:

- Easy to set up and use, all information real-time display and showing set up operation, convenient to observe equipment running status.
- Support standard microplates and deep well plates.
- Brushless DC motor, low noise, small interference, free maintenance.
- Automatic preheating function.
- Automatic power recovery function.
- Temperature calibration function.
- Built-in software and hardware over temperature protection device, will use more reliable.

Parameters:

Project	Parameters
Temp. setting range	0℃~80℃
Temp. control range	RT+5℃~80℃
Timing range	1min ~ 99h59min/∞
Temp. accuracy	≤±0.5℃*
Display accuracy	0.1℃
Temp uniformity	≤±0.5℃*
Shaking speed	300~1350rpm
Orbit	3mm

Project	Parameters
Auto preheating	Yes
Auto resume to run	Yes
Capacity	4microplates or deepwell plates
Power supply	300W
Voltage	AC220V or AC110V, 50/60Hz
Heating time	≤10min(from 25℃ to 80℃)*
Dimension(mm)	340x320x200
Weight(kg)	9.5

Shaker for Microplates

MS100

Description:

Ms100 Shaker for Microplates is a type of high speed shaker, which is with brushless DC motor and microprocessor controlled technique, specially for elisa plates(96/384 wells), tissue culture plates(24/48/96 wells).

Features:

- LCD display system status and parameters.
- Stable and reliable shaking.
- Easy to operate with one touch knob.
- Automatic fault detection and buzzer alarm function.

Parameters:

Project	Parameters
Timing range	1min ~ 99h59min
Mixing orbit	3mm
Sample capacity	4plates
Voltage	AC100V~240V, 50/60Hz
Weight(kg)	4.0

Project	Parameters
Shaking speed	200~1500rpm
Speed step value	10rpm
Power	45W
Dimension(mm)	280×270×110
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Orbital Shaker

MPS-10

Description:

- MPS-10 Orbital Shaker is a high speed shaker with direct brushless DC motor and microprocessor controlled technique. It can be applicable in different laboratories: in microbiology, biotechnology, medical analysis, etc.

Features:

- LCD displays time and shaking speed.
- Easy to operate with one-touch knob.
- Warm root and variety of platforms can be chosen.
- When time control ends, instrument will make alarm voice.
- Gentle and reliable shaking with direct brushless DC motor.

Parameters:

Project	Parameters
Timing range	1min ~ 99h59min
Orbit	10mm
Capacity(PP-2 tray)	6×100ml or 4×250ml conical flask
Power	45W
Dimension(mm)	280×270×110

Project	Parameters
Shaking speed	50~300rpm
Capacity(PP-1 tray)	8pcs petri dishes
Capacity(PP-3 tray)	12×100ml or 6×250ml conical flask
Voltage	AC100V~240V, 50/60Hz
Weight(kg)	7.0

Orbital Shaker

MPS-20

Description:

- MPS-20 Orbital Shaker is a high speed shaker with brushless DC motor and microprocessor controlled technique. Mix and culture all kinds of flask, petri dish and beaker, by changing different platforms. It can be applicable in different laboratories: biotechnology, microbiology and medicine analysis, etc.

Features:

- LCD displays time and shaking speed.
- With special Forwards/Reverse shaking and pause function, it can be shaking intermittently.
- Beep alarm when operation ends.
- Different platforms can be chosen for variety demands.
- Soft start, uniform acceleration, effectively avoid splash sample.
- Gentle and reliable shaking with direct brushless DC motor.

Parameters:

Project	Parameters
Timing range	1min ~ 99h59min
Orbit	20mm
Forwards/Reverse shaking	Yes
Timing range for pause	0-99sec
Voltage	AC100~240V, 50/60Hz
Weight(with PP-1)(kg)	8.2

Project	Parameters
Shaking speed	50~250rpm
Max. load	2.5kg
Timing range for Forwards /Reverse shaking	0-99min
Power	35W
Dimension(with PP-1)(mm)	280×270×110
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Optional Platforms:

Type	Description
PP-1	Flat platform for 8pcs petri dish
PP-2	Universal platform with adjustable bars, for 6x100ml or 4x250ml conical flask

Type	Description
PP-3	Platform with clamps for 12x100ml conical flask
PP-3	Platform with clamps for 6x250ml conical flask

Orbital Shaker-Incubator

TOS20

Description:

- TOS20 Orbital Shaker-Incubator is a compact bench–top Shaker–Incubator used for mixing of biological liquids as well as for incubation and cultivation of biological liquids according to the operator set program. Seven interchangeable platforms allow it mix and culture samples in flask, petri dish, tubes, Elisa plates, and etc. Built–in microprocessor thermo controller provides constant temperature control in the incubator chamber. It is extremely easy to operate, with very straightforward setup of temperature, speed and time.

Features:

- Instantly display operation information(time, temperature and speed) on the LCD screen.
- Gentle and reliable shaking with direct brushless DC motor.
- Running safely –-heating and shaking will be automatically stopped once the lid is open.
- Seven interchangeable platforms can be chosen for variety demands.
- Auto restart in case of power failure.
- Over-heating protection device is included.
- Built-in temperature calibration function.
- Compact, only 421mmx320mm(DXW).

Parameters:

Project	Parameters
Temp. setting range	0℃~60℃
Timing range	1min ~ 99h59min/∞
Display accuracy	0.1℃
Shaking range	50~300rpm
Heating time	≤15min(from 25℃ to 60℃)*
Load capacity	4.0kg
Auto resume to run	Yes
Voltage	AC110 or AC220V/50-60HZ
Dimension(mm)	421x320x338

Project	Parameters
Temp. control range	RT.+5℃~60℃
Temp. accuracy	≤±0.5℃(@37℃)
Temp. uniformity	≤±0.5℃(@37℃)
Orbit	20mm
Platform dimension	230x230mm
Internal chamber height	182mm
Power	350W
Fuse	250V 3A Φ5×20
Weight(kg)	18.5

Optional Platforms:

Type	Description
PF-1	Platform with clamps for 5×250ml conical flask
PF-2	Platform with clamps for 9×100ml conical flask
PF-3	Platform with clamps for 10×50ml tube
PF-4	Platform with clamps for 18×15ml tube

Type	Description
PF-5	Platform with spring holder
PF-6	Platform for 4pcs Elisa plates or deep-well plates
PF-7	Flat platform for 5pcs petri dishes
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Orbital Shaker-Incubator

TOS30

Description:

- TOS30 Orbital Shaker-Incubator, combining shaker and incubator, is a compact bench–top Shaker–Incubator used for mixing of biological liquids as well as for incubation and cultivation of biological liquids according to the operator set program. Interchangeable platforms allow it mix and culture samples in flask, petri dish, tubes and etc. Built-in microprocessor thermo controller provides constant temperature control in the incubator chamber. It is extremely easy to operate, with very straightforward setup of temperature, speed and time.

Features:

- Instantly display operation information(time, temperature and speed) on the LCD screen.
- Gentle and reliable shaking with direct brushless DC motor.
- The incubator features acrylic lid to allow easy visibility of and access to the samples.
- Constant temperature control ensures even temperature distribution in the chamber.
- Running safely –-heating and shaking will be automatically stopped once the lid is open.
- Auto restart in case of power failure.
- Over-heating protection device is included.
- Built-in temperature calibration function.

Parameters:

Project	Parameters
Temp. setting range	0℃~60℃
Timing range	1min ~ 99h59min/∞
Display accuracy	0.1℃
Shaking range	50~250rpm
Heating time	≤20min(from 25℃ to 60℃)*
Load capacity	10.0kg
Auto resume to run	Yes
Voltage	AC110 or AC220V/50-60HZ
Dimension(mm)	632x502x512

Project	Parameters
Temp. control range	RT.+5℃~60℃
Temp. accuracy	≤±0.5℃(@37℃)
Temp. uniformity	≤±0.5℃(@37℃)
Orbit	20mm
Platform dimension	350x350mm
Internal chamber height	325mm
Power	600W
Fuse	250V 3A Φ5×20
Weight(kg)	41

Optional Platforms:

Type	Description
TOS30-T1	Platform with clamps for 9×250ml conical flask
TOS30-T2	Platform with clamps for 25×100ml conical flask

Type	Description
TOS30-T3	Flat platform for 16pcs petri dishes
TOS30-T4	Platform with spring holder

Multi-tube Vortexer

MS200

Description:

- MS200 Multi-tube Vortexer is with technique of brushless DC motor and microprocessor controlled technique. Unique knob operation is easy to use. It can maximum process 50 samples at once. A variety of test tube foam racks can be selected to meet the mixing needs of different test tubes. It can be widely used in the biotechnology, microbiology, medical analysis and other industries.

Features:

- Easy to operate with one-touch knob.
- 1min~99h59min time range, automatic warning sound when finish working.
- A variety of test tube foam racks for option to meet the mixing needs of different test tubes.
- Soft start, uniform acceleration, effectively avoid samples splashing.
- Brushless DC motor: precise shaking speed, long service life maintenance-free.
- Process up to 50 samples at once to make the experiment more convenient and efficient.
- Microprocessor control, simple operation panel, LED displays for speed and time.
- Humanized program design, built-in short mix and timing operation modes.

Parameters:

Project	Parameters
Shaking speed	500~2500rpm
Orbit	4mm
Power	70W
Dimension(mm)	410x276x432

Project	Parameters
Timing range	1min ~ 99h59min
Max load(kg)	4.5
Voltage	AC100V~240V, 50/60Hz
Weight(kg)	20

Optional foam racks：

Type	Foam rack	Test tube
MS200-T10	50x⌀10mm	⌀9~⌀10mm
MS200-T12	50x⌀12mm	⌀11~⌀13mm
MS200-T15	50x⌀15mm	⌀14~⌀17mm

Type	Foam rack	Test tube
MS200-T20	50x⌀20mm	⌀18~⌀21mm
MS200-T25	15x⌀25mm	⌀24~⌀27mm
MS200-T29	15x⌀29mm	⌀28~⌀32mm

Mini Vortex Mixer

MIX1000

Description:

- MIX1000 Mini Vortex Mixer is designed for “touch” mixing a variety of test tubes. With a 4.5mm orbit and adjustable speed of 1000-2800rpm, the mini vortex mixer instantly vortexes even the largest samples, including nearly full 50ml tubes. The small footprint allows it to be used on even the most crowded bench.

Features:

- Shaking speed: 1000-3500rpm.
- Powerful and reliable motor designed for daily laboratory use.
- “Touch” pressure activated operation.
- Accept a variety of test tubes, including the tubes up to 50ml.
- Mini-sized, allowing it to fit on even the most crowded bench.

Parameters:

Project	Parameters
Speed	1000-3500rpm
Type of movement	Orbital
Max test tube size	Φ30mm
Voltage	AC100-240V, 50/60Hz
Dimension(mm)	125×115×76

Project	Parameters
Type of motor activation	Touch pressure activated operation
Orbit	4.5mm
Max load	0.1kg
Power	24W
Weight(kg)	0.55

Vortex Mixer

MIX2000

Description:

- MIX2000 Vortex Mixer is with technique of brushless DC motor and microprocessor controlled technique. Characterized by compact and reliable structure, low power and noise, vortex mixer is widely used in biochemistry, gene engineering and medicine experiments. It is designed to meet most of the requirement of many lab users.

Features:

- Touch operation or continuous mode.
- Variable speed control from 1000 to 2800rpm.
- Used for various mixing application with optional adaptors.
- Accept a variety of test tubes, including the tubes up to 50ml.
- Brushless DC motor: precise shaking speed, long service life maintenance-free.

Parameters:

Project	Parameters
Time range	0sec~99min59sec/∞
Run mode	Touch operation/Continuous
Motor type	Shaded pole motor
Voltage	AC110 or 220V, 50/60Hz
Weight(kg)	3.4

Project	Parameters
Speed range	1000-2800rpm
Orbit	3mm
Power	60W
Dimension(mm)	197×135×156
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Adaptors:

Name	Description	Remark
Single-tube head	For one tube	Standard
Foam block platform	Used with foam block	Standard
Foam block A	4x29mm	Standard
Foam block B	8x15mm	Standard

Name	Description	Remark
Foam block C	24x10mm	Standard
Foam block D	37x8mm	Standard
Plate platform	Used with elisa plate/deep-well plate	Optional
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Multi-Rotator

RS100

Description:

- RS100 Multi-Rotator is a high speed shaker with brushless DC motor and microprocessor controlled technique. Mix and culture many kinds of centrifuge tubes, by changing different platforms. It can be applicable in different laboratories: biotechnology, microbiology and medicine analysis, etc.

Features:

- LCD displays time and shaking speed.
- Easy to operate with touch knob.
- Setup the time of 1min~99h59min. Beep alarms when operation ends.
- Different platforms can be chosen for variety demands.
- Gentle and reliable shaking with brushless DC motor.
- Programmable motions include: 1) orbital rotational motion, 2) reciprocal motion, 3) pause. Not only run in one particular type, but also alternate motions of different types cyclically.

Parameters:

Project	Parameters
Shaking speed	10~100rpm
Time for pause	1-5s
Time for orbital rotational and reciprocal motions	1-250s
Dimension(mm)	485x200x226
Weight(kg)	5.9

Project	Parameters
Timing range	1min-99h59min
Max. load	6kg
Power	25W
Voltage	AC110~240V, 50/60Hz
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Optional Platforms:

Type	Description
PRS-01	Two sides can accommodate 44 tubes of 1.5ml/2.0ml vertically
PRS-02	Two sides can accommodate 40 tubes of 1.5ml/2.0ml horizontally
PRS-03	Two sides can accommodate 32 tubes of 5ml vertically
PRS-04	Two sides can accommodate 40 tubes of 5ml horizontally

Type	Description
PRS-05	Two sides can accommodate 12 tubes of 10ml/15ml vertically
PRS-06	Two sides can accommodate 16 tubes of 10ml/15ml horizontally
PRS-07	Two sides can accommodate 12 tubes of 50ml vertically
PRS-08	Two sides can accommodate 16 tubes of 50ml horizontally

Roller Mixer

RM100

Description:

- RM100 Roller Mixer is a compact digital roller for use with a variety of containers, including test tubes, centrifuge tubes and roller bottles. Roller Mixer provides a efficient rolling and swinging motion, ideal for mixing blood samples, viscous substances and liquid-solid suspensions. It is used for prevention of blood coagulation and immune precipitation etc. From blood collection tubes to roller bottles, the Roller Mixer is the deal choice for research and clinical laboratories.

Features:

- Digital set-up for speed and time with independent LED display.
- Continuous or timer operation.
- Maintenance free brushless DC motor.
- Maximum stirring speed up to 99rpm.
- Rolling & Swinging action for complete mixing.
- With special Forwards/Reverse motion.
- Compatible for use with wide range of tubes/bottles from 8mm to 200mm diameter.

Parameters:

Project	Parameters
Speed range	20-99rpm
Operation mode	Rolling & Swinging
Forwards/Reverse motion	Yes
Timer for Forwards/Reverse	30sec~99min59sec
Max. load	4kg
Voltage	AC100V~240V 50/60Hz
Dimension(mm)	480×250×100

Project	Parameters
Timing range	1-99h59min/∞
Amplitude	25mm
Roller quantity	6
Roller length	280mm
Power	15W
Weight(kg)	3.8
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Hotplate & Stirrer

350 Series

Description:

- Hotplate, Magnetic Stirrer and Hotplate Stirrer feature an exceptionally durable, chemical resistant white ceramic work surface. The space-efficient design makes them ideal for use on crowded benchtops. They are widely used in biotechnology, microbiology, medical analysis and other fields. All three models accept a wide variety of beakers, flasks, bottles and other laboratory vessels for heating and/or stirring volumes as large as 3 liters.

Features:

- LCD displays speed, temperature* and time.
- Compact, reliable and easy to use.
- Unique heating method, up to 350℃*.
- Stainless steel heating plate, with high-performance heating device and high-precision temperature control device.
- External Pt1000 temperature sensor can be used to achieve precise temperature control of samples*.
- Special design of red water lamp to remind overheating when heat plate is above 50℃*.
- White top plate adopts nano-ceramic technology, wear-resistant and corrosion-resistant.
- Over-heating protection device is included*.
  (Note: *is for Hotplate and Hotplate Stirrer)

Parameters:

Project	Parameters		
Product model	MS350-H	HP350	MS350
Product name	Hotplate Stirrer	Hotplate	Magnetic Stirrer
Temp. setting range	0℃~350℃	0℃~350℃	/
Temp. control range	RT. +5℃~350℃	RT. +5℃~350℃	/
Timing range	1min-99h59min/∞	1min-99h59min/∞	1min-99h59min/∞
Temp. accuracy	±1℃(@<100℃) ±1%(@>100℃)	±1℃(@<100℃) ±1%(@>100℃)	/
Display accuracy	1℃	1℃	/
Speed range	200~1600rpm	/	200~1600rpm
Max. stir bar	50mm	/	50mm
Max. stir/heating volume(H_2O)	3L	3L	3L
Platform dimension	142x142mm	142x142mm	142x142mm
Power	500W	500W	15W
Voltage	AC110V or 220V, 50/60Hz	AC110V or 220V, 50/60Hz	AC110V or 220V, 50/60Hz
Fuse	250V 3A Φ5×20	250V 3A Φ5×20	250V 3A Φ5×20
Dimension(mm)	293x186x107	293x186x107	293x186x92
Weight(kg)	2.6	2.5	2.3

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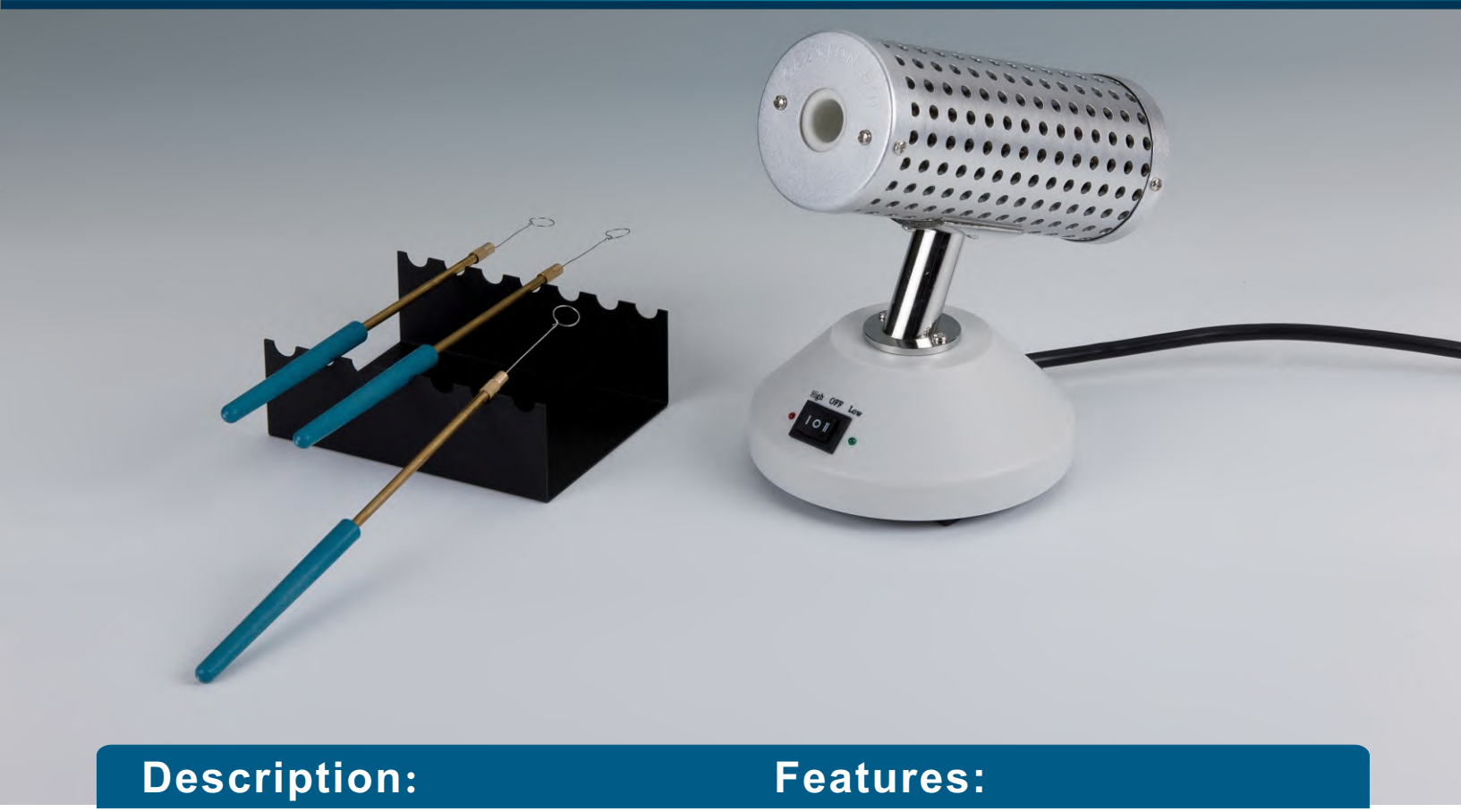
Bacti-cinerator Sterilizer

IS800 Series



Description:

- Bacti-cinerator Sterilizer is used in degasssing for inoculating loops and needles, instead of alcohol lamps. Due to its convenience, sterilizer is widely used in the environment of biological safety cabinet, the exhaust fan, purification table and mobile van.

Application:

Widely used in biosafety cabinets, clean bench, near exhaust fan, mobile vehicles, even outdoor and other other severe environment.

Features:

- Safety, convenient. Totally take the place of alcohol lamps.
- Only 5-7 seconds are needed, because of its highest temperature of 825℃.
- Smart, light, easy to handle.
- Can be used in anaerobic chamber.
- Podzolic organics prevent pollutions effectively.
- Smart technique makes it possible to use for a long time and much safer.

Parameters:

Project	Parameters	
Product model	IS800-A	IS800-B
Max. temp. in central zone	825°C ± 25°C	825°C ± 25°C
Max. outer diameter of sterilization goods	ϕ15mm	ϕ35mm
Length of heating area	140mm	100mm
Heating time	15min	15min
Power	150W	250W
Voltage	AC110V or 220V, 50/60Hz	AC110V or 220V, 50/60Hz
Fuse	250V 3A 5X20	250V 3A 5X20
Ambient temperature	5℃～40℃	5℃～40℃
Dimensions(W×D×H)	120×155×180	130×120×200
Weight(kg)	1.0	1.3

Glass Bead Sterilizer

GS300 Series

Description:

- GS300 Series Glass Bead Sterilizer is ideal for the sterilization of surgical instruments (forceps, scissors, needles, etc.). When the chamber is filled with the included glass beads, high temperature(up to 300C) can be used to eliminate the presence of bacteria, spores and other microorganisms. Without using potentially dangerous gases, flames or chemicals, it ensures that the sterilized instruments will be free of pathogens and microbial contaminants. The small footprint saves bench space, the sterilizer is safe to be used even in laminar flow hoods.

Features:

- Digital control, up to 300℃.
- Sterilizes forceps, scissors, needles & other small surgical instruments (generally within 10-15s).
- Safe to use—no gases, fumes, open flames or harsh liquids.
- Stainless steel inner container, built-in highly precise temperature controller and over-temperature protection.
- Includes one bag of glass beads.

Parameters:

Project	Parameters	
Product model	GS300-L	GS300-H
Temperature range	100℃~300℃	100℃~300℃
Temp accuracy	±5℃	±5℃
Display accuracy	1℃	1℃
Time range	1min ~ 99h59min/∞	1min ~ 99h59min/∞
Heating time	≤25min(RT. to 300℃)	≤25min(RT. to 300℃)
Voltage	AC110V or 220V, 50/60Hz	AC110V or 220V, 50/60Hz
Material of lid	Stainless steel	Stainless steel
Max power	120W	250W
Chamber volume(diameter x depth)	Φ40mmx80mm	Φ40mmx140mm
Glass beads capacity	150g	300g
Dimension(mm)	176x135x189.5	176x135x249.5
Weight(kg)	2.5	3.3

Mini-centrifuge

MC6000

Description:

- MC6000 Mini-centrifuge standard configuration includes two rotors.
  8x1.5ml rotors max accommodate 8x 1.5/2.0ml centrifuge tubes; if use random equipped with 0.2ml or 0.5ml tube sets, also can use 0.2ml or 0.5ml tubes on this product.
  4x8x0.2ml rotors accommodate 4x8 x0.2ml PCR special tubes.
  Two kinds of rotor both can be used in experiments on micro centrifugation, cell separation and quickly separating from the test tube wall and etc.

Features:

- Small volume, light weight
- 1.5ml rotors accommodate 8x1.5/2.0/0.5/0.2ml centrifugal test tubes.
- 8-place rotors accommodate 32x0.2ml centrifugal test tubes.
- Use flip type switch function, automatically stop when open the cover. The cover is made by composite material which is not easily broken.

Parameters:

Project	Parameters
Dimension(mm)	160×150×125
Capacity(standard rotor)	8×1.5/2.0/0.5/0.2ml
Weight(kg)	0.9
Max(RCF)	2000g

Project	Parameters
Voltage	AC100-240V, 50/60Hz
Capacity(8-strip rotor)	4×8×0.2ml
Speed	6000rpm
Power	≤50W

High-speed Mini-centrifuge

MC15K

Description:

- MC15K High-speed Mini-centrifuge is a compact centrifuge capable of achieving centrifugal speed up to 15000rpm, that is approximately 15080g. It is used for extracting RNA/DNA samples, sedimentation of biological components, biochemical and chemical analysis of micro samples. Automatic imbalance switch-off and locking of lid provide safe operation. The rotor accepts 1.5 to 2.0ml tubes directly, as well as 0.5ml and 0.2ml tubes with optional adapters.

Features:

- LCD provides a clear indication of time and rpm or RCF.
- RPM/RCF setting as required.
- The rotor is made of nylon material, with corrosion resistance, minimizes the temperature increases during longer run at high speed.
- Accelerates and decelerates in just 14seconds.
- Safety operation: rotor imbalance diagnostic; automatic stop.
- Motor overheating protection function.
- A separate momentary short button permits instant spin downs.
- Low samples heating (only 5℃ after 30min, at max. speed).
- A brushless motor provides noiseless performance and long service.

Parameters:

Project	Parameters
Capacity	12x1.5/2.0ml centrifuge tubes
Timing range	15sec~99min59sec/∞
Acceleration	14sec(0~15000rpm)
Deceleration	14sec(15000~1000)
Power	120W
Dimension(mm)	255x194x140

Project	Parameters
Speed range	500~15000rpm
RCF range	16~15080g
Rotor imbalance diagnostic	Yes
Motor overheating protection	Yes
Voltage	DC24V/5A
Weight(kg)	2.3

Centrifuge for Microplate

MPC2800

Description:

- MPC2800 Centrifuge for Microplate is designed for quick spins of samples in PCR plates. Primarily designed for use with 96 or 384 well plates and small volumes, it accepts skirted, non skirted and semi skirted styles.

Features:

- Easy to use, real-time display of all operating information.
- Countdown mode support
- DC brushless motor, low noise, small interference, maintenance-free.
- When open the cap, it will stop running automatically.
- Fast acceleration from standstill to maximum speed fully in just 10sec.
- Braking time is short, from the highest speed to a complete standstill in just 4sec.

Parameters:

Project	Parameters	Project	Parameters
Rotating speed	2200~2800rpm	Lid open auto stop	Yes
Timing range	15sec ~1min59sec	Short run	Yes
Max(RCF)	550g	Capacity	2 PCR plates
Acceleration time	≤10sec(from 0 to 2800rpm)	Power	45W
Brake time	≤4sec(from 2800rpm to 0)	Voltage	AC110~220V/50-60Hz
Dimension(mm)	260x240x226	Fuse	250V/3A Φ5×20
Weight(kg)	3.3	–––	–––

Hybridization Instrument

SH2000

Description:

- SH2000 Hybridization Instrument can be setting constant temperature, time and etc. Instead of manual operation experiment , the accuracy of experiment is higher and result is more reliable than traditional manual experiment. Hybridization and degeneration can be operated at same time, which reduces experimental procedure and improves efficiency and accuracy of operation.

Features:

- This instrument is adopted FISH processing step, which can reduce a lot of manual operating time and avoid the damage of harmful reagent.
- Touch screen allows for easy to read, program and use.
- Automatic power recovery function.
- Automatic cooling function after running over.
- Automatic warm-up function.
- Platform high precision of temperature control, low fluctuation.
- Can deal with 12 slides.
- Support 105 custom programs stored functions.
- Three operation modes: denaturation & hybridization, hybridization, multiple-step operation.

Parameters:

Project	Parameters
Temp. control range	RT+5 ℃~100 ℃
Temp. setting range	0℃~100℃
Timing range	1min ~ 99h59min
Temp. accuracy	≤±1℃
Temp. uniformity	≤±1℃
Heating time	≤2min (from 37℃ to 95℃)

Project	Parameters
Cooling time	≤6min (from 95℃ to 45℃)
Capacity	12 Slides
Power	350W
Voltage	AC220V or AC110V, 50/60Hz
Dimension(mm)	440x220x120
Weight(kg)	4.5

Semi-Automated Plate Sealer

ASP1000

Description:

- ASP1000 Semi-Automated Plate Sealer is used for sealing a wide variety of microplates (Elisa, cell culture, PCR and deep-well plates) to store samples, prevent evaporation and minimize contamination. It is applicable for a variety of heat seals, meeting any laboratory application, including PCR, coulorimetric, fluorescence, long term storage. A plate sensing system allows to provide uniform force, transferring heat evenly to the sealing surface whether using PCR plates or deep-well plates.

Features:

Safety

- If a hand or objects stuck in the drawer when it's moving, the drawer motor will reverse automatically. This feature prevent both user and the unit from injury.
- Special and smart design on the drawer, it can be detached from the main device.

Power save mode

If the unit is left on but inactive for long periods, it will enter a power saving mode.

- When the unit is inactive for 60min, it will switch into stand-by mode. Then the temperature will be reduced to 60C to save power.
- When the unit is inactive for 120min, it will switch into Power-Save mode. The display and heating element will be switched off. The user can awaken the unit by pressing any button.

- Rapid heating(reaching 170℃ in 300seconds)
- Adjustable Sealing Temperature: 80℃ ~200℃
- OLED display screen, high light.
- Applicable for different micro plates and heat seals.
- Precise temperature, timing and pressure for consistent sealing.
- Compact footprint: only 178mm wide x 370mm depth

Parameters:

Project	Parameters
Display	OLED
Temperature accuracy	±1℃
Sealing time	0.5s～10s(increment of 0.1s)
Power	300W
Weight(kg)	11.46
Compatible plate materials	PP(Polypropylene) PS(Polystyrene) PE(Polyethylene)
Compatible Sealing Film Types	Foil-polyproylene laminate Clear polyester-polypropylene laminate Clear polymer Thin clear polymer

Project	Parameters
Sealing temperature	OFF, 80℃~200℃(increment of 1.0℃)
Temperature uniformity	±1℃
Seal plate height	9~48mm
Voltage	AC110V or 220V/50-60HZ
Dimension(mm)	370x178x330
Compatible plate types	Standard Assay Plates Deep-well Storage Plates PCR Plates: skirted, semi-skirted, non-skirted
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Manual Plate Sealer

MSP200

Description:

- MSP200 Manual Plate Sealer is used for sealing a wide variety of microplates (Elisa, cell culture, PCR and deep-well plates) to store samples, prevent evaporation and minimize contamination. It is applicable for a variety of heat seals, meeting any laboratory application, including PCR, coulorimetric, fluorescence, long term storage.

Features:

- Rapid heating(reaching 170℃ in 300seconds)
- Adjustable sealing temperature: 80℃ ~200℃
- Applicable for different micro plates and heat seals.
- Precise temperature, timing and pressure for consistent sealing.
- Unique drawer type sliding platform, easy access to micro plates.
- Economic; easy to operate.
- Over-heating protection device is included.

Parameters:

Project	Parameters
Sealing temperature	80℃~200℃
Temperature accuracy	±1℃
Sealing interval	30s
Power	400W
Weight(kg)	11

Project	Parameters
Sealing time	0.5s～99s (within 10s, increment of 0.1s; above 10s, increment of 1s)
Seal plate height	9~48mm
Voltage	AC110V or 220V/50-60HZ
Dimension(mm)	324x216x353
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Mini Thermal Cycler

MTC3200

Description:

- MTC3200 Mini Thermal Cycler is a compact, accurate and economical thermal cycler, designed to fit lab's basic thermal cycling needs. The operation of the thermal cycler is controlled by a 5-inch color touch screen. It has a capacity for 32x0.2ml tubes. The wells are arranged in a 4x8 format, allowing the block to accept strips of 8 as well as individual tubes. Excellent block uniformity ensures consistency sample to sample. Fast incubation function meets the experimental needs of denaturation, enzyme digestion/enzyme linkage, ELISA, etc. With a small footprint, the Mini Thermal Cycler will fit almost anywhere.

Features:

- Capacity: 32x0.2ml tubes and 4x8 tube strips.
- Heating/cooling method: Peltier.
- 5-inch intuitive color touch screen – for easy programming of users.
- 100 typical programs can be stored in memory and easily recalled.
- The block heats and cools very quickly – at rates as fast as 4℃/sec.
- The heated lid is self adjusting – the spring loaded platen in the lid comes firmly into contact with the tops of the tubes to prevent samples evaporation and condensation.
- Temperature of heated lid can be changed or the heating function of lid can be turned off.
- After a run, samples can be held at 4℃.
- An on-screen report is available at the completion of a run.

Parameters:

Project	Parameters
Capacity	32x0.2ml tubes, 4x8 tube strips
Temp. setting range	0℃~100℃
Temp. control range	4℃~100℃
Heated lid range	RT.+5℃~110℃, user adjustable
Time increments/decrements	1~120s
Temp. increments/decrements	0. 1℃~9.9℃
Storage at 4℃	Yes
Program memory	100 programs
Power	200W
Fuse	250V 3A Φ5×20
Weight(kg)	2.3

Project	Parameters
Temp. accuracy/uniformity	≤±0.25℃/≤±0.25℃
Max. heating time	4℃/sec
Max. cooling time	2℃/sec
Temp. display resolution	0.1℃
Temp. control	Simulated sample or block
Display	5-inch color touch screen, 800x480 Pixel
Communication interface	USB(1 port)
On-screen report	Yes
Voltage	AC100~240V, 50-60Hz
Dimension(mm)	260x200x125
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