

SH/MJ Biochemical Incubator Mold Incubator

High-precision temperature control,
balanced cooling system reduces
temperature fluctuations

SH SERIES

SH-100 SH-100MJ

SH-150 SH-150MJ

SH-250 SH-250MJ

SH-400 SH-400MJ



SH-250

SH-150

SH-100



Gather all the essence of Kenton technology Together with researchers

Perfect products from KENTON--- Human engineering design,high-precision micro-computer control temperature control, best imported components, as well as advanced manufacturing technology of Europe and the United States, ensure your successful experiment.

SH Biochemical Incubator/Mold Incubator

Technical parameters

| Product model | SH Biochemical Incubator Series | | | | SH-MJ Mold Incubator Series | | | |
|---------------------------------|---|------------------|------------------|-------------------|--------------------------------|------------------|------------------|-------------------|
| | SH-100 | SH-150 | SH-250 | SH-400 | SH-100MJ | SH-150MJ | SH-250MJ | SH-400MJ |
| Convection Mode | Forced Convection | | | | | | | |
| Control System | Microprocessor PID | | | | | | | |
| Temp. Range | 0~70℃ | | | | | | | |
| Temp. Accuracy | 0.1℃ | | | | | | | |
| Temp. Fluctuation (10-40℃) | ±0.5℃ | | | | | | | |
| Temp. Uniformity (℃)(10-40℃) | ±1 | ±1 | ±1 | ±1.5 | ±1 | ±1 | ±1 | ±1.5 |
| Timer Range | 0~99 Hours, 0~9999 minutes, can be chosen | | | | | | | |
| Working environment | Ambient temperature: 10~30℃, Humidity<70% | | | | | | | |
| Insulation materials | Environmental protection type material | | | | | | | |
| External Dimensions (H×W×D) | 1250×630 ×680 | 1410×650 ×680 | 1730×650 ×740 | 1700×745 ×930 | 1250×630 ×680 | 1410×650 ×680 | 1730×650 ×740 | 1700×745 ×930 |
| Internal Dimensions(H×W×D) | 610×490 ×390 | 760×510 ×390 | 1100×510 ×450 | 1050×600 ×640 | 610×490 ×390 | 760×510 ×390 | 1100×510 ×450 | 1050×600 ×640 |
| Interior Volume(L) | 100 | 150 | 250 | 400 | 100 | 150 | 250 | 400 |
| Interior steel materials | St. steel materials | | | | | | | |
| Interior steel materials | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 |
| Power Consumption(W) | 850 | 1000 | 1100 | 1100 | 850 | 1000 | 1100 | 1100 |
| Power supply | Single phase AC220V/50Hz | | | | | | | |
| Net Weight(KG) | 95 | 107 | 135 | 158 | 95 | 107 | 135 | 158 |
| Gross Weight(KG) | 120 | 133 | 162.5 | 188 | 120 | 133 | 162.5 | 188 |
| Shipping Dimensions(H×W×D) | 1450×730 ×830 | 1605×760 ×830 | 1935×760 ×890 | 1907×815 ×1090 | 1450×730 ×830 | 1605×760 ×830 | 1935×760 ×890 | 1907×815 ×1090 |

Optional Product Accessories

1. Portable printer
- 2.Full function LCD touch screen controller
3. Data memory with USB
4. Air interface
5. Power supply interface
6. ALLSENS software
- 7.Power off the door
- 8.Test hole
9. Adjustable speed oscillator (for constant temperature shaking culture use);



ALLSENS Software



LCD touch screen



Printer



Oscillator



Data memory with USB



Test hole

- 1.All technical data is under no load conditions, environment temperature 25°C, relative humidity 50%RH, voltage fluctuation $\pm 10\%$, no obvious shock and dust.
- 2.KENTON may change the above technical parameters at any time. There is deviation about product appearance due to some factors such as the photographic or printed result, please understand and reserves the final right of interpretation.

Meet international standard

Products standard: NSF 49; EN12469

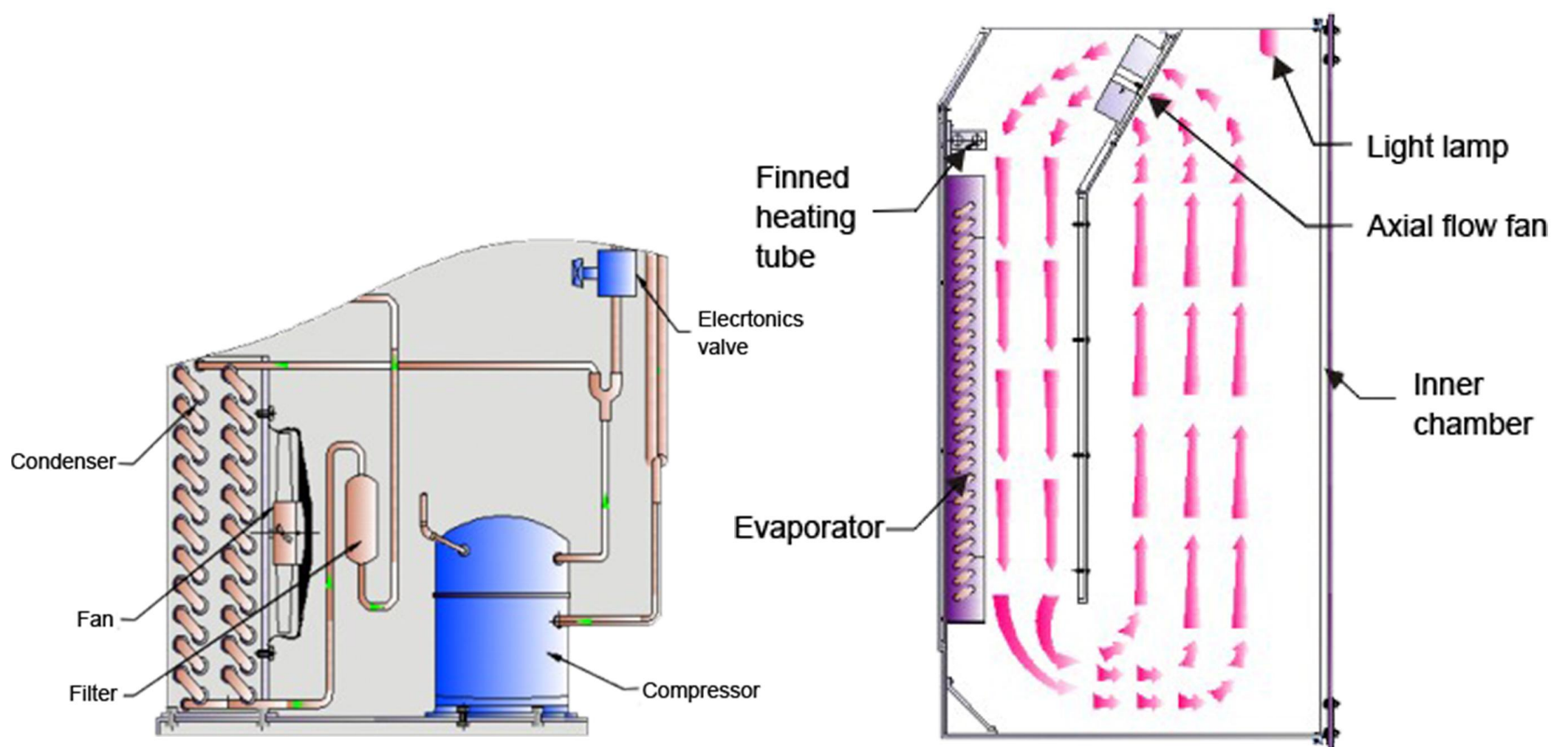
Electrical safety standard: International IEC61010-1/US UL61010-1/EU EN61010-1

SH Biochemical Incubator Mold Incubator

- 1.Applicable to the analysis and BOD determination of water, is a dedicated research department of environmental protection, health and epidemic prevention, drug testing, livestock, aquatic thermostatic device.
- 2.ALLIGENT-SH Biochemical Incubator/Mold Incubator can provide a stable temperature environment simulate various climatic conditions, especially used in samples tests、 shelf life tests、 long-term experiments and cultivation of plants、 seeds and microorganisms.
- 3.According to Chinese pharmacopoeia requirements, AS3100 of Australia, FDA of the United States EN, ICH and other related standards. For long-term acceleration experiments and forced degradation experiments.
- 4.IQ, OQ, PQ and other related certification services.
- 5.CE certification. Three-year warranty period.

ALLCOLD Refrigeration technology

1. World famous compressor: balanced refrigeration technology, auto defrost, multiple security system, long time running, environmental protection, high efficiency and energy saving.
2. Auto-defrost function: original rapid heat pump defrost technology, for continuous operation, effectively prevent frost because of continuous operation of evaporator.
3. Refrigeration effect manual control system: meet customer's terrible work environment.
4. Imported DuPont SUVA R134 a environmental refrigerant. For cleaner world, for better work condition.
5. To save energy, to reduce the cost.

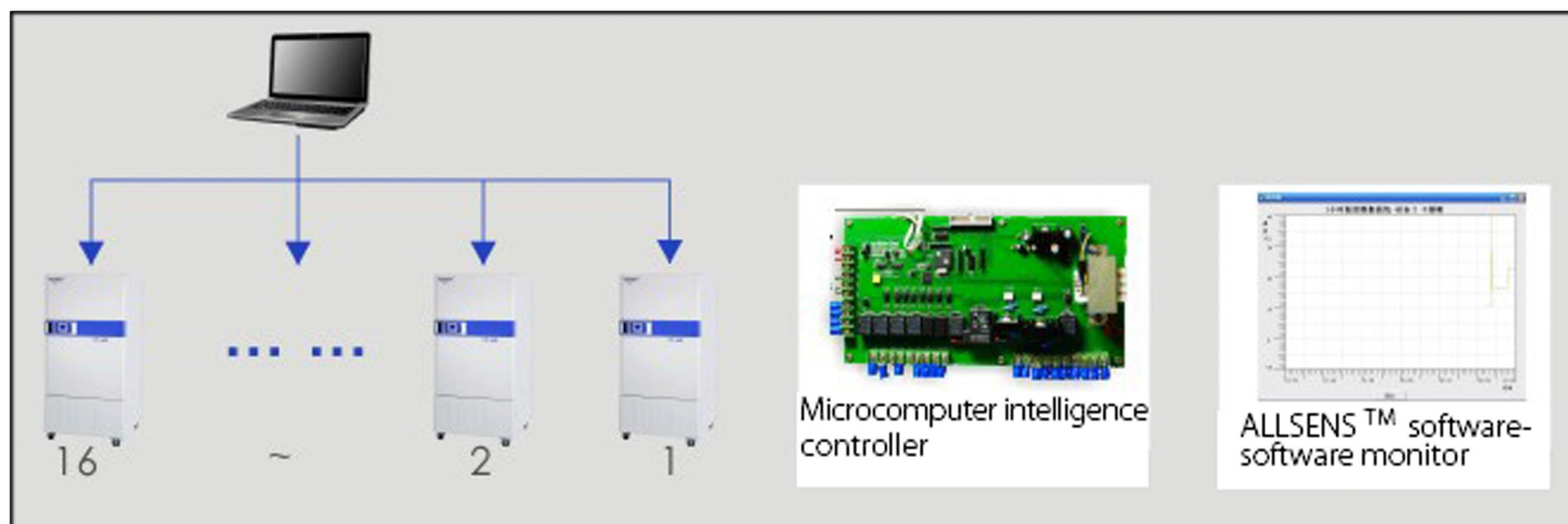
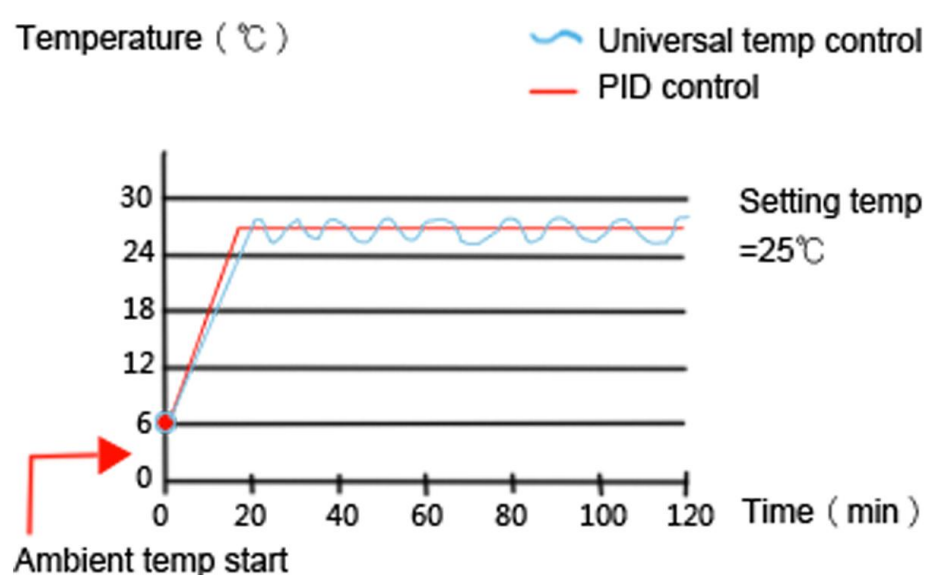


ALLFLOW perfect air current cycling

1. ALLFLOW air current cycling: perfect forced convection, maximum samples number of working room minimum temperature recovery time after the opening, world famous axial fan, perfect air current design ensure an ideal result of samples culture.
2. ALLFLOW air current cycling: keep temperature continuous and stable, keep humidity continuous and stable, ensure perfect sample culture.

ALLSENS Programmable PID Control

1. Integrated, dot-matrix LCD display, Chinese and English subtitles, design for the highest operational comfort.
2. Display parameters: temp humidity, cycle, run time, run/stop.
3. Adaptive PID controller precisely control the temperature and humidity, prevent temperature soaring, keep working room temperature stable and uniformity.
4. User password protection, built-in multifunctional memory menu, connect to multiple devices (up to 16 units), real-time monitoring.
5. Set operations with beep tips
6. Remote-controlled operation, with programmable software (option). Bacteria-free culture with UV disinfection (meet Mold incubator).



Qualified Sensor

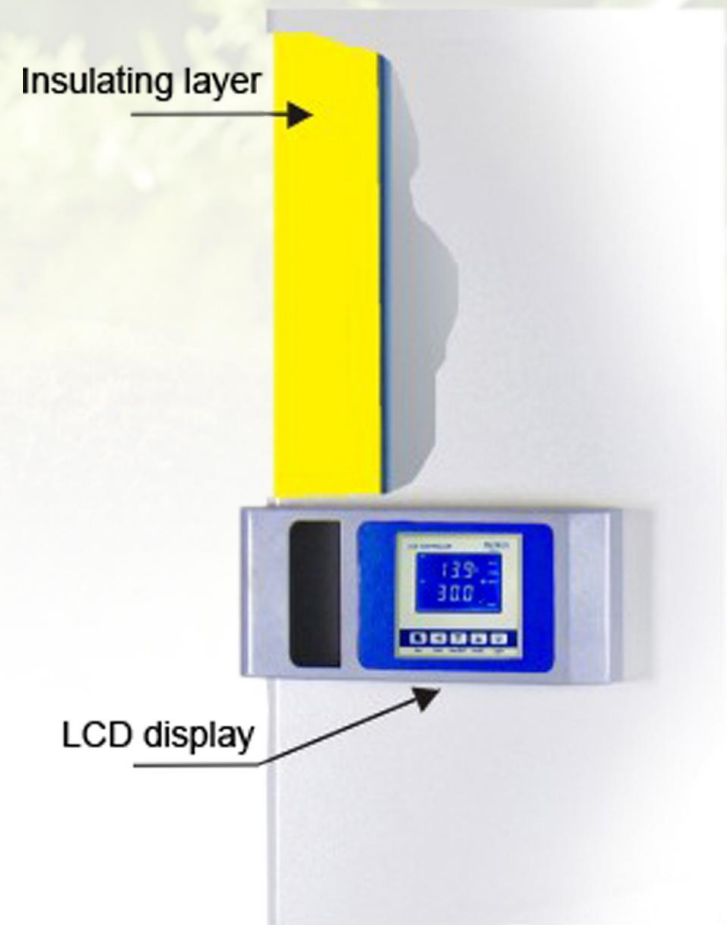
Imported industrial sensor PT100, short response time, low self-heating temperature.



Ⓢ PT 100 temperature sensor

Efficient Isolation Design

- 1.Design of double-layer isolation, reduce power consumption, environmental protection concept energy conservation.
- 2.Internal isolated door design, easy observation of working room samples, keep temperature stability of working room.



Ergonomic design

- 1.Laboratory of classical color design, international fashion design, arc-shaped design, for highest operational comfort.
- 2.Integrated design that contains original outside handle and LCD screen, ergonomic structure comfortable viewing angle, convenient to open the outside door and operate interface.
- 3.Interval and number of mesh shelf can be adjusted according to customer requirements. Maximum capacity to meet customer needs.
- 4.Comfortable vertical structure, maximize work chamber, working room in the upper convenient to take.
- 5.Double door design, easy observation samples, keep temperature stability, with bell-type lighting system.

Modern manufacturing processes

Sheet metal parts use laser cutting and CNC bending technology. Cold-rolled sheets use three line of acidification anti-rust technology. Incubator surface use workmanship of spraying plastics.



Easy to clean

1. Internal surface is smooth and less weld, easy cleaning and maintenance.
2. Pull multi layer shelf design, less metal accessories, easy to clean.
3. Drainage design of chamber humidification collecting tank. User can discharge water as required to avoid bacteria.

Convenient maintenance

1. Liquid crystal micro-computer controller with diagnostic function. Display operating parameters including historical record, temperature and humidity data.
2. Maintaining of controlling system and cooling system, electrical control system mounted on the incubator bottom.
3. Electrical control components and working room are installed separately. Especially refrigerating battery and electrical control output parts, which are installed in incubator bottom, easy to maintenance.



Secure and efficient protection concept









1. Multiple over temperature protection function, sound and light alarm.
2. Automatic double over temperature protection function.
3. All electronic components are UL certified.

SH series biochemical incubator main configuration

| No | Name | specifications | quantity |
|----|---|----------------|----------|
| 1 | Main chamber | SH | 1 |
| 2 | LCD touch screen intelligent control | D6006 | 1 |
| 3 | temperature sensor | PT-100 | 1 |
| 4 | circulating fan | SF120-BT150 | 2 |
| 5 | compressor | FKA | 1 |
| 6 | Stainless steel heating tube | 0.55-0.7KW | 1 |
| 7 | 304 Stainless steel inner | SH | 1 |
| 8 | 485 interface | 9 hole | 1 |
| 9 | protective tube | 10/15A | 1 |
| 10 | 3×0.75mm ² Separate the power cord with plug | 2.5m 15A | 1 |
| 11 | Environmentally friendly refrigerant | R290 | |
| 12 | Evaporator | Kenton | 1 |
| 13 | Condenser | Kenton | 1 |
| 14 | Brake wheels | 3 inch | 4 |
| 15 | Solenoid valve | SH1028 | 1 |
| 16 | Small circuit breakers | DZ47 | 1 |

The above configuration is for reference only. The manufacturer reserves the right to change the accessories and their parameters at any time without prior notice

Comparison of biochemical-humidity-light-climate chamber

| | SH/SH-MJ | WS/WS-MJ | LC | RG | SPX SPX-MJ | LRH LRH-MJ | GZP | PQH |
|--------------------------------------|---|---|---|---|---|---|---|---|
| Controller |  |  |  |  |  |  |  |  |
| Programmable touch screen control | ● | ● | ● | ● | | | | |
| PID LCD | ● | ● | ● | ● | ● | ● | ● | ● |
| Inner material | | | | | | | | |
| SUS304 St. steel | ● | ● | ● | ● | | ● | ● | ● |
| 201 St. steel | | | | | ● | | | |
| Motor fan | | | | | | | | |
| High temperature resistant bearing | ● | ● | ● | ● | | | | |
| Heat tube | | | | | | | | |
| St. steel | ● | ● | ● | ● | ● | ● | ● | ● |
| 232 computer port | ● | ● | ● | ● | | | | |
| Networking control | ● | ● | ● | ● | | | | |
| ALLCOLD balanced refrigeration | ● | ● | ● | ● | ● | ● | ● | ● |
| ALLFLOW circulation | ● | ● | ● | ● | ● | ● | ● | ● |
| ALLSENS | ● | ● | ● | ● | | ● | ● | ● |
| ALLIGENT humidification | | ● | | ● | | ● | | ● |
| Pro-Bright light system | | | ● | ● | | | ● | ● |
| Save energy insulation | ● | ● | ● | ● | | | | |
| UV function | “MJ”● | “MJ”● | | | “MJ”● | “MJ”● | | |
| Refrigeration capacity control | ● | ● | ● | ● | | | | |
| Brand accessories | | | | | | | | |
| Brand compressor | ● | ● | ● | ● | ● | ● | ● | ● |
| Environmentally friendly refrigerant | ● | ● | ● | ● | ● | ● | ● | ● |
| ST bi type thyristor | ● | ● | ● | ● | | | | |
| Philip chip | ● | ● | ● | ● | | | | |
| Taiwan opitcal coupler | ● | ● | ● | ● | | | | |
| SENSIRION sensor | ● | ● | ● | ● | | | | |
| Auto de frost | ● | ● | ● | ● | ● | ● | ● | ● |
| Cut-off memory | ● | ● | ● | ● | ● | ● | ● | ● |
| Door seal material | Silicone+magnetic | | | | magnetic | Silicone+magnetic | | |
| insulation | high density polyurethane | | | | polyurethane | | | |
| Temp.accuracy℃ | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| Temp.fluctuation | ±0.5% | ±0.5% | ±1% | ±1% | ±0.5% | ±0.5% | ±1-1.5% | ±1-1.5% |
| humidification | | ● | | ● | | ● | | ● |
| Humidity fluctuation | | ±2% | | ±3% | | ±2% | | ±3% |
| Light function | | | ● | ● | | | ● | ● |
| timer | ● | ● | ● | ● | ● | ● | ● | ● |
| Over-temperature alarm | ● | ● | ● | ● | ● | ● | ● | ● |
| warranty | 3 years | | | | 2 years | | | |

Kenton

Together with Researchers

**Manufacture of drying oven, lab incubator, climate chamber,
laminar flow cabinet, biological safety cabinet(OEM,ODM)**

KENTON APPARATUS LIMITED

KENTON Apparatus Limited was found in 1999, production plant was set in Guangzhou, China. It is mainly engaged in production, sales and export of laboratory thermostatic equipment and biological scientific equipment, and has provided high-quality products and services for professional laboratories and scientific research institutions at domestic and abroad for many years. We rely on an international professional R&D team to keep the design and technology of products in step with the world and constantly seek breakthroughs. Since its establishment, the company has been focusing on thermostatic equipment products in related fields. Now it is a high-tech enterprise integrating science, industry and trade. Its business covers China, Southeast Asia, America, Europe, Australia and other countries. At the same time, based on the business philosophy of "walking with scientific researchers", and taking advantage of the company's geographical advantages, the company has carried out extensive communication and exchange with scientific researchers in different regions for many years, and carried out long-term follow-up services to users, constantly improving the function and quality of products, so that products can better meet the requirements of users.

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