

# Kenton

Together with Researchers

## Laminar Flow Cabinet

**JH SERIES**

JHP-1 JHZ-1

JHP-2 JHZ-2

**Gather all the essence of Kenton technology**

**Together with researchers**

High-End products from KENTON. Designed with ergonomic principles, featuring a sophisticated microcomputer control system and an optimal cleaning program. Manufactured using processes from Europe and the United States, with high-quality components to ensure a perfectly clean environment. The optimized wind pressure and air outlet design guarantee uniform and stable airflow, ensuring the success of your experiments.



## Technical parameters

| Product type                  | JHP horizontal airflow  |                   | JHZ vertical airflow |                   |
|-------------------------------|---|-------------------|----------------------|-------------------|
|                               | one person JHP-1  | two person JHP-2  | one person JHZ-1     | two people JHZ-2  |
| Cleanliness rating            | ISO 14644.1 standard, CLASS 5 (U.S. Federal 209E, 100 level)                                  |                   |                      |                   |
| Control system                | LCD Intelligent control system(With filter failure reminder)                                  |                   |                      |                   |
| Wind speed                    | 0.3~0.6m/s(Adjustable)  |                   |                      |                   |
| Noise (dB)                    | ≤ 62  |                   |                      |                   |
| Vibration half peak           | ≤ 3μm (X、Y、Z direction)   |                   |                      |                   |
| High efficiency filter        | Efficiency 99.99%   |                   |                      |                   |
| Illumination (LX)             | ≥ 300   |                   |                      |                   |
| Work environment              | Ambient temperature 10~30℃, Relative humidity below 70%, No obvious vibration and dust around |                   |                      |                   |
| Mesa material                 | SUS304 stainless steel  |                   |                      |                   |
| Overall size(mm)<br>(H×W×D)   | 1585×990×735  | 1585×1460×735     | 1585×990×735         | 1585×1460×735     |
| Internal size (mm)<br>(H×W×D) | 500×830×550   | 500×1300×550      | 500×830×680          | 500×1300×680      |
| Voltage(V)                    | AC110V/220/50Hz   |                   |                      |                   |
| Power (W)                     | 200   | 400               | 200                  | 400               |
| Net weight (KG)               | 120   | 210               | 110                  | 210               |
| Shipping weight(KG)           | 130   | 235               | 130                  | 235               |
| Packing size (mm)<br>(H×W×D)  | 1030×1180×<br>855   | 1030×1650×<br>855 | 1030×1180×<br>855    | 1030×1650×<br>855 |

Remarks: Vertical airflow series can be custom-made to single sided and double sided.

## Optional accessories

1, Water&gas port;

2, ULPA super efficient filter (interception up to 99.999%)

- All technical data is tested under no-load conditions, with an ambient temperature of 25°C, relative humidity of 50% RH, and voltage fluctuation of  $\pm 10\%$ , without significant vibration or dust.
- KENTON reserves the right to change the technical parameters at any time. Product appearance may vary due to factors such as photography or printing, and we appreciate your understanding. KENTON reserves the final right of interpretation.

**Products standard:** NSF 49; EN12469

**Temperature safety standards:** Germany DIN 12880 Class 3.1

**Electrical safety standards:** International IEC61010-1

US UL61010-1

EU EN61010-1

## JH Series Laminar airflow cabinet

- **Versatile Applications:** Ideal for biotechnology, pharmaceuticals, life sciences, precision electronics, and other fields requiring product protection. The JH series purification workbench combines uniform airflow mechanics to create a local purification environment, ensuring smooth operation during experiments.
- **Compliance with Standards:** Meets Australia AS1386.5, EU EN12469 standards, and the international ISO14644.1 CLASS (U.S. Federal 209E, 100 level) cleanroom standards.
- **Integrated LCD Display:** Displays real-time parameters such as lighting, sterility, and air volume. Features sterilization and lighting interlock functions to protect operators from ultraviolet light burns. The wind speed is adjustable to regulate airflow, and the system includes a differential pressure sensor and filter failure warning function.
- **Efficient Airflow Design:** The centrifugal fan motor uses low energy, with a large-diameter air inlet design based on airflow mechanics to reduce turbulence and ensure low-noise operation. The optimized pressure box and micro-mesh laminar air outlet ensure uniform and stable airflow.
- **High-Efficiency Filtration:** Standard with a dual filter system, the primary filter prevents dust entry, extending the life of the high-efficiency filter. The HEPA filter provides 99.99% efficiency, and the system offers both vertical and horizontal airflow options.
- **Ergonomic and User-Friendly:** The ergonomically tilted front enhances comfort. The workspace is equipped with gas and water interfaces, and an anti-splash power socket for convenience. The weight-balanced front door can slide up and down for easy positioning. The integrated lighting system provides optimal brightness and reduces visual fatigue.
- **Durable Work Surface:** The operating platform is made of anti-corrosive SUS304 stainless steel. The front design improves comfort, while the control panel is easily accessible for maintenance and component replacement.
- **Easy Mobility:** The removable, disassembled combination base frame facilitates transportation and movement. The adjustable-height casters come with a brake function for secure positioning.
- **Certification Services:** IQ, OQ, PQ, and other relevant certification services are available.
- **Additional Features:** CE certified with a three-year warranty period.

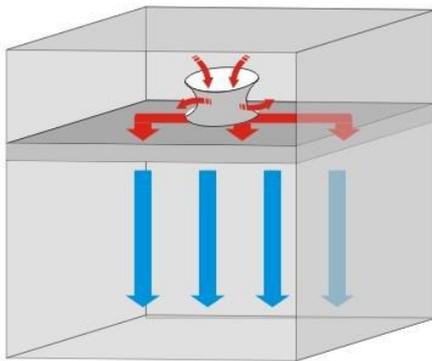
## Micro-computer control technology

- **Integrated LCD Display:** Provides real-time monitoring of parameters such as lighting, sterility, airflow, and more, with a filter failure reminder for added convenience.
- **User-Friendly Design:** Includes sterilization and lighting interlock functions to protect operators from ultraviolet light exposure, ensuring safe operation.
- **Adjustable Wind Speed:** Multiple wind speed settings allow the airflow volume to be adjusted according to user preferences.

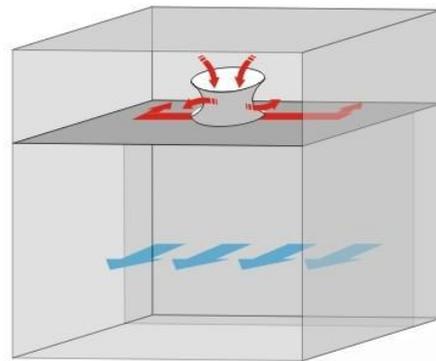


## CLEANFLOW™ clean air technology

- **Low-Power Centrifugal Fan Motor:** The motor, based on airflow mechanics, features an arc-shaped, large-diameter inlet design that reduces turbulence, ensuring quiet operation of the system.
- **Optimized Airflow Design:** The duct design and pressure box are optimized, with a micro-mesh outflow wind deflector that eliminates convex surfaces and dead zones, ensuring uniform and stable airflow.
- **Dual-Filter System:** The standard dual-filter system includes a primary filter that prevents dust particles from entering the airflow, extending the life of the high-efficiency filter. The high-efficiency HEPA filter (without partitions) provides 99.99% retention efficiency.
- **Customizable Airflow Options:** The CLEANFLOW™ series offers both vertical and horizontal airflow configurations, depending on the customer's requirements.



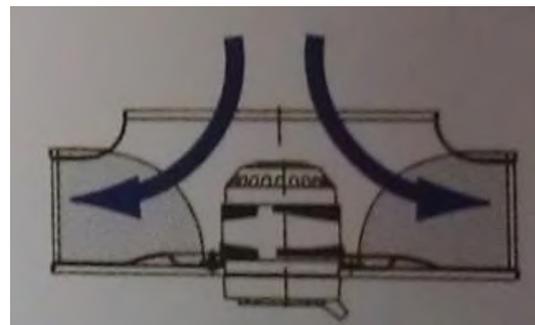
Vertical airflow



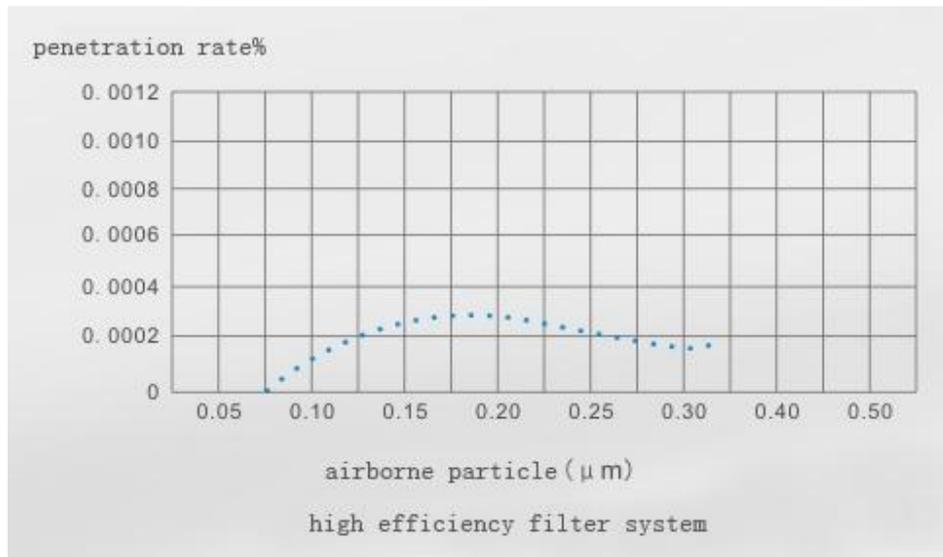
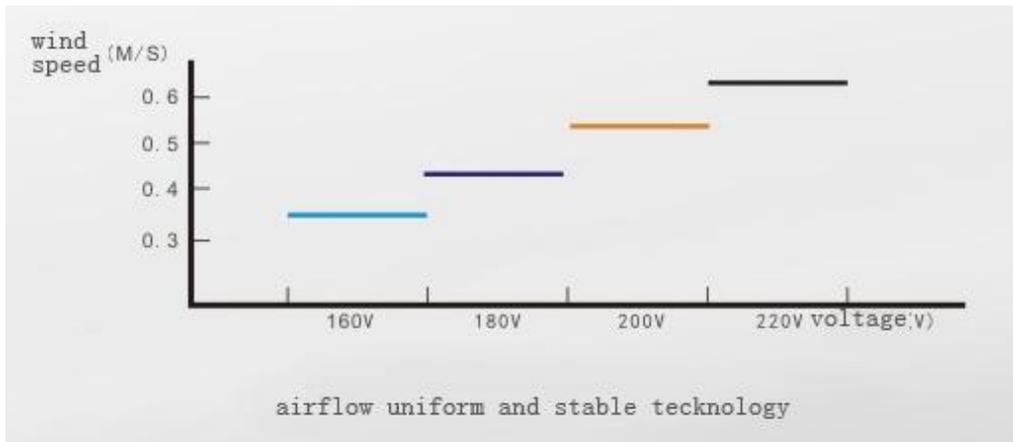
Horizontal Airflow



Mesh equipment wind deflector



Maintenance-free efficient fan system

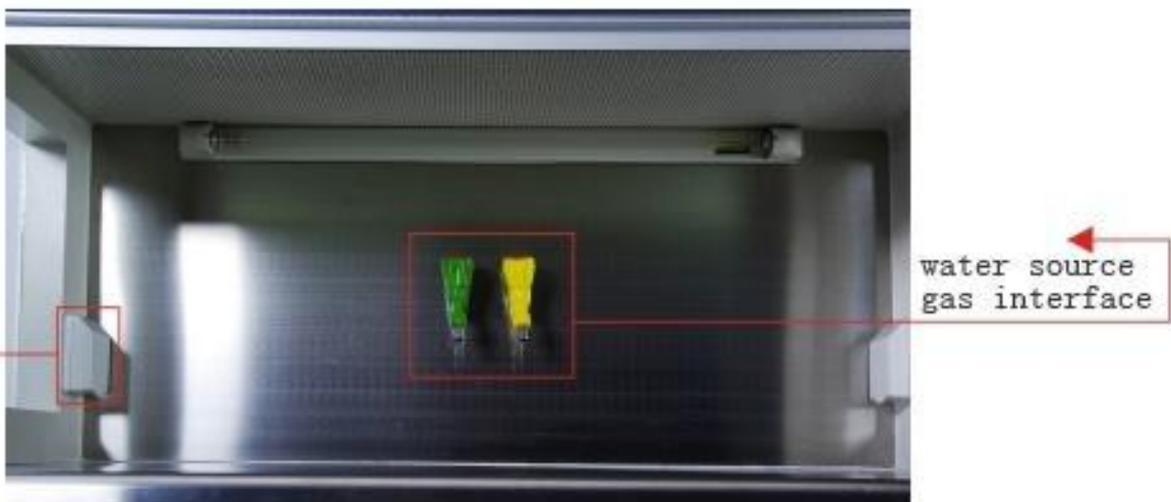


| international units | air cleanliness class (N) |    | more than or equal to maximun density limit value of (PC/m <sup>3</sup> )<br>particle diameter in the form |        |        |          |          |        |
|---------------------|---------------------------|----|--|--------|--------|----------|----------|--------|
|                     | imperial units            |    | 0.1μm  | 0.2μm  | 0.3μm  | 0.5μm    | 1μm      | 5μm    |
| ISO Class 1         | --                        |    | 10   | 2      | --     | --       | --       | --     |
| ISO Class 2         | --                        |    | 100  | 24     | 10     | 4        | --       | --     |
| ISO Class 3         | 1级                        |    | 1000   | 237    | 102    | 35       | 8        | --     |
| ISO Class 4         | 10级                       |    | 10000  | 2370   | 1020   | 352      | 83       | --     |
| ISO Class 5         | 100级                      |    | 100000   | 23700  | 10200  | 3520     | 832      | 29     |
| ISO Class 6         | 1000级                     |    | 1000000  | 237000 | 102000 | 35200    | 8320     | 293    |
| ISO Class 7         | 10000级                    | -- | --   | --     | --     | 352000   | 832000   | 2930   |
| ISO Class 8         | 100000级                   | -- | --   | --     | --     | 3520000  | 8320000  | 29300  |
| ISO Class 9         | --                        | -- | --   | --     | --     | 35200000 | 83200000 | 293000 |

Classification of air cleanliness of international standard ISO14464-1

## Ergonomically designed

- **Ergonomic Front Tilt Design:** The front is tilted for improved comfort and low-noise operation, enhancing user experience during use.
- **Convenient Interfaces:** Standard gas and water interfaces, along with a splash-proof power outlet, ensure smooth experiment execution.
- **Sliding Front Door:** The weight-balanced front door slides up and down and can be securely anchored in place.
- **Built-In Lighting System:** Provides optimal illumination with the best angle and brightness, helping to reduce visual fatigue during extended use.
- **Translucent Side Windows:** The double-glazed side windows enhance light transmission, while the non-convex design of the work area eliminates dead zones and potential obstructions.
- **Durable Work Surface:** The platform is made from corrosion-resistant SUS304 stainless steel, with an ergonomically curved front design to improve operator comfort.



## Modern manufacturing processes

- Sheet metal parts are manufactured using laser cutting and CNC bending technology. Cold-rolled sheets undergo a three-step acidification anti-rust process. The incubator surface is finished with a high-quality plastic spraying technique for added durability.

## Easy to clean

- The pre-filter core and air inlet are designed with a specific shape to facilitate easy folding, loading, and cleaning of the pre-filter element.
- The work surface features a polished design with no pits or dead ends, minimizing seams. This design makes it easy to clean and disinfect.



## Convenient maintenance

- The removable combination tripod is easy to transport and move, with an adjustable stand height for convenience.
- The front control panel features an eversion design for easy access to electrical components, simplifying maintenance and replacement.
- To ensure the device maintains long-term cleanliness, it is recommended to clean or replace the pre-filter and high-efficiency filter after extended use.



The front panel



Primary Filter

| Comparison of series                       | JHP                             | JHZ                             | SW-bench top | SWP | SWZ |
|--|---------------------------------|---------------------------------|--------------|-----|-----|
| <b>Controller</b>                          |                                 |                                 |              |     |     |
| LCD screen                                 | ●(With filter failure reminder) | ●(With filter failure reminder) | ●            | ●   | ●   |
| <b>Brand accessories</b>                   |                                 |                                 |              |     |     |
| ST bi type thyristor                       | ●                               | ●                               |              |     |     |
| Philip chip                                | ●                               | ●                               |              |     |     |
| Taiwan optical coupler                     | ●                               | ●                               |              |     |     |
| <b>Worktable material</b>                  |                                 |                                 |              |     |     |
| SUS304 st.steel                            | ●                               | ●                               |              |     |     |
| 201 st.steel                               |                                 |                                 | ●            | ●   | ●   |
| <b>Ergonomic design</b>                    |                                 |                                 |              |     |     |
| Front overall tilt type design             | ●                               | ●                               | ●            | ●   | ●   |
| Flip front door maintenance                | ●                               | ●                               |              |     |     |
| Positioned front door                      | ●                               | ●                               |              |     |     |
| <b>Centrifugal fan</b>                     |                                 |                                 |              |     |     |
| Large-diameter centrifugal fan             | ●                               | ●                               |              | ●   | ●   |
| High temperature resistant bearing         | ●                               | ●                               |              |     |     |
| Double filter                              | ●                               | ●                               |              | ●   | ●   |
| <b>Laminar direction</b>                   |                                 |                                 |              |     |     |
| horizontal                                 | ●                               |                                 | ●            | ●   |     |
| vertical                                   |                                 | ●                               | ●            |     | ●   |
| Gas and water tap<br>Electric outfit       | ●                               | ●                               |              |     |     |
| Fan speed adjustable                       | ●                               | ●                               | ●            | ●   | ●   |
| CLEANFLOW technology                       | ●                               | ●                               |              |     |     |
| Clean grade                                | ISO Class5 (209E 100)           |                                 |              |     |     |
| Lighting and UV lamp interlocking function | ●                               | ●                               | ●            | ●   | ●   |
| Assembly support                           | ●                               | ●                               |              | ●   | ●   |
| Warranty                                   | 3 years                         |                                 | 2 years      |     |     |

## **KENTON APPARATUS LTD.**

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

Kenton is a laboratory instrument manufacturer. In 1999, Kenton produced the first batch of 101 series drying oven and launched them on the market. Later, it successively launched incubator, biochemical incubator and other series. In 2005, we obtained ISO: 9001 quality certification, and in 2008-2012, we successively obtained CE certification. In 2013, a new generation of product series was introduced, and its functions and uses were comprehensively upgraded. The liner material was upgraded to SUS 304 stainless steel. In 2011, we expanded the global market, and now our products are sold to Europe, America, Southeast Asia major markets. Kenton manufactures laboratory equipment under our own brand. Our product line includes biological safety cabinets, artificial climate chambers, drying ovens, incubators, high temperature chambers, humidifiers, water baths, industrial air ovens, laminar flow cabinet, biochemical incubators, vacuum ovens, constant temperature and humidity chambers, and light incubators, among other series. The 30,000 sets produced annually are expected to expand at a pace of 20% annually. It has emerged as South China's biggest and most significant equipment manufacturer. The business has launched Kenton Technology Ltd. to concentrate on the development of supporting equipment in the disciplines of biological research and life sciences, in response to changes in worldwide market demand. We increased the new product series, which includes: blood oscillator, anaerobic oven, (Ultra)low temperature refrigerator, non-pipeline clean gas fume hood, sterile isolation cabinet, drug testing safety cabinet, etc., via independent research and development and technical advancement. Numerous scientific research departments, medical preservation, genetic vaccination, and other businesses make extensive use of our goods. In the meanwhile, we have expanded our recognition and support and have sold to Europe, America, Southeast Asia, Australia, the Middle East, and other international markets thanks to consistent investment, research and development, and advancements in workers, equipment, and technology. To supply top-notch goods and services to reputable laboratories and scientific research centers, as well as to mining and industrial companies both domestically and internationally.

<https://www.kentonchina.com/>

E-mail: [kenton@kentonchina.com](mailto:kenton@kentonchina.com)

Address: No.2, Hualong Rd, Donghua industrial zone, Renhe town, Baiyun district, Guangzhou China

Tel: 86-020-36246586, 36247961, 36246650, 36246651

