



**Honri Airclean Technology Co., Ltd** is a joint-stock high-tech enterprise incorporating the research and development. Established in 1994, we are the domestic leader in China in micro contamination monitoring, and now we are building a global wide company.

Our products mainly include airborne particle counters, biological air samplers, and laminar flow benches. Our comprehensive line of micro contamination monitors enables users to monitor and qualify contaminants. Specific applications include clean room monitoring, filter test etc. Our products are widely used in the field of electronics, Aviation & Spaceflight, Precision Instrument, Biological Pharmaceuticals, Film making, Medical Treatment, Food healthcare, semiconductor, Light cable, Scientific Research, Clean operation room, biological Laboratory.

Our factory has been certified with ISO9001:2000 version by the USA Orion certificate Company for Import and Export. We were awarded directorship by "Clean room Technology Committee of China Refrigeration and Air conditioning Industry Association ". Some of our models have obtained national patents with European "CE".

We have been doing our best to grasp every opportunity and always work and study hard to develop the innovated quality products along with reasonable price for our global customers. Meanwhile, we welcome friends from inland and abroad to contact us or visit our factory for business discursions or OEM/ODM products.



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**TECHNOLOGY**

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*"Reliable products, Reasonable price"*  
**Honri Airclean Technology Co., Ltd**

**TECHNOLOGY**  
**CLJ series Laser Airborne Particle Counter**

**CLJ-B II Laser Airborne Particle Counter**

- Six particle-size channels (0.3, 0.5, 1.0, 3.0, 5.0, 10.0µm)
- 0.1CFM (2.83 LPM) flow rate
- 95% UCL Calculation
- Date and time display
- Data conversion (ft<sup>3</sup> and m<sup>3</sup>)
- Data storage
- Multiple print-modes



**CLJ-B II (LCD) Laser Airborne Particle Counter**

- Six particle-size channels (0.3, 0.5, 1.0, 2.0, 3.0, 5.0µm)
- 0.1CFM (2.83 LPM) flow rate
- 95% UCL Calculation
- Date and time display
- Data conversion (ft<sup>3</sup> and m<sup>3</sup>)
- Data storage
- Multiple print-modes
- Large LCD display



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## CLJ-H603 Airborne Particle Counter (Handheld)

- Six particle-size channels (0.3, 0.5, 1.0, 2.0, 3.0, 5.0 $\mu$ m)
- 0.1CFM (2.83 LPM) flow rate
- 95% UCL Calculation
- Data conversion (ft<sup>3</sup> and m<sup>3</sup>)
- 320×240 pixels LCD display
- Rechargeable Li-ion battery
- 95% UCL Calculation
- Large memory for storing data(1,500 samples)
- Data easily to be downloaded to computer
- Lightweight (0.6kg)



## CLJ-B II (J) Laser Airborne Particle Counter

- Six particle-size channels (0.3, 0.5, 1.0, 3.0, 5.0, 10.0 $\mu$ m)
- 0.1CFM (2.83 LPM) flow rate
- 95% UCL Calculation
- Date and time display
- Data conversion (ft<sup>3</sup> and m<sup>3</sup>)
- Data storage
- Multiple print-modes
- Portable
- Battery operated



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### CLJ-BM(D) Airborne Particle Counter (1.0cfm, 0.3µm)

- Eight particle-size channels (0.3, 0.5, 0.7, 1.0, 3.0, 5.0, 7.0, 10µm)
- 9-digit LED display (7 digitals for data display)
- Count data is displayed as cumulative or differential count for each particle-size channel
- Temperature and humidity display (optional)
- RS-232 communication interface
- Date and clock display
- 95%UCL calculation
- Built-in printer
- Multiple print-modes
- Data storage 200 samples



### CLJ-B II (D) Airborne Particle Counter (1.0cfm, 0.3µm)

- Six particle-size channels (0.3, 0.5, 1.0, 2.0, 3.0, 5.0µm)
- 1.0 CFM (28.3 LPM) flow rate
- 95% UCL Calculation
- Date and time display
- Data conversion (ft<sup>3</sup> and m<sup>3</sup>)
- Data storage
- Multiple print-modes
- Large LCD display



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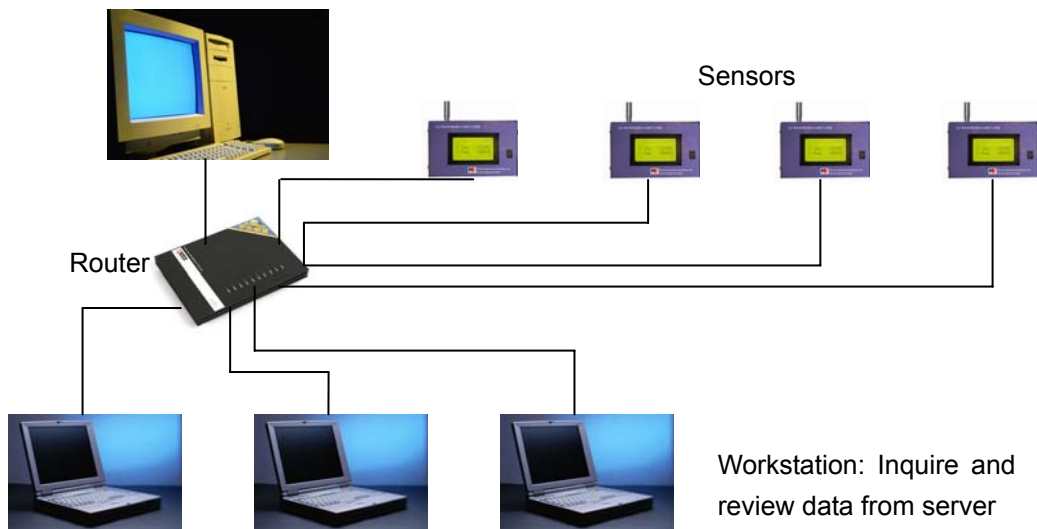
## CLJ-BM Airborne Particle Counter (0.1cfm, 0.3µm)

- Eight particle-size channels (0.3, 0.5, 0.7, 1.0, 2.0, 5.0, 7.0, 10µm)
- 9-digit LED display (7 digitals for data display)
- Count data is displayed as cumulative or differential count for each particle-size channel
- Temperature and humidity display (optional)
- RS-232 communication interface
- Date and clock display
- Federal 209E Standard calculation
- Built-in printer
- Multiple print-modes
- Data storage 200 samples



## CLJ-R203 on-line Particle Counter

Server: Monitor the sensor and customer; data storage



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## ***Biological air sampler (bacteria tester)***

### **FSC- II Biological air sampler**

- Flow rate: 50L/min
- Sample Period: 1-99min is available to be set up
- Sample volume: 50-5000L
- Vacuum source: built-in oil less vacuum pump
- Electrical requirements: 220v 50/60Hz
- Petri dish size:  $\Phi 90 \times 15$ mm
- Dimension: 28×21.5×25 cm
- Weight: 8kg



### **FSC-IV Biological air sampler**

- Sampling hole has many small holes to reduce particles superposition and reduce error of animalcule count.
- Programmable, sampling quantity can be set from 0.01 to 2.0 m<sup>3</sup>.
- LCD screen displays sampling quantity, sampling time and other parameters.
- Up to 256 samples data storage of sampling time, sampling volume and other parameters
- Portable, lightweight, convenient to use.
- Easy to exchange substrate utensil, just only take down sampling hole to exchange substrate utensil. (Diameter is 90×15mm.)
- Sampling volume 100L/min
- Wind Speed of sampling holes: 0.4m/s, basically the same as that of clean room (isokinetic sampling)
- Power supply: AC & DC
- Rechargeable battery: DC6V
- Operating time on battery: 4h
- Dimension: 120×300 mm
- Weight: 2.5 Kg



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## FSC-A6 Six-stage Microbial Air Samplers

### Applications:

- Indoor Air Quality Studies Food Processing Areas
- Medical treatment and office environments
- Sterile manufacturing
- Filter and Clean Room Efficiency Studies
- Pharmaceutical Production
- Hospital Environments
- Brewery Fermentation
- Animal Care Laboratories
- Sewage Treatment Plants
- Cosmetic Manufacturing
- Grain Processing and Transportation



### Six Stage Microbial Air sampler

- Size separates viable particles for collection and assay of aerobic species of bacteria and fungi
- Meets ACGIH recommendations for bioaerosol sampling.
- Corrosion resistant, easily sterilizable
- Completely portable, weighs less than 20-lbs. (9 Kg)
- Verifiable flow rate
- Economical, fast, easy to use

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**TECHNOLOGY**  
**Measurement meters**

### JHC-3 Differential Pressure Meter

There are two kinds of models: embedded one and portable one

Technical parameters:

- Test range: pressure difference: 0~124Pa
- Work environment: temperature: 0~50℃, humidity: <95%RH
- Test accuracy: pressure difference: ≤5%(linearity error)
- Power: 220V±10%, 50Hz±5 Hz
- Fixing hole size(inlaid): 148×98×42 (mm)
- Product size(portable): 150×97×50 (mm)
- Weight: 1.2kg (embedded) 0.3kg (portable)



### JHC-3(A) Environment test instrument

Technical parameters:

- Test range: differential pressure: 0~124Pa (Temperature: 0~50℃, Humidity: 30~90%RH) Work environment: Temperature: 0~50℃ Humidity: <95%RH
- Test Accuracy: differential pressure: ≤5%(linearity error) Temperature: ±1℃ Humidity: ±5% RH(25℃)
- Functions display: Differential pressure /temperature /humidity will display in screen by turns or display one of the three.
- Power supply: 220V±10% 50Hz±5 Hz
- Dimension: 165×130×60(mm)
- Weight: 0.7kg



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## HS5633 Digital Sound Level meter

- Main technical index and function Measuring range of sound level meter: 35~130dB (A)
- Frequency range: 20Hz~12.5kHz
- Frequency-weighted features: A weighing
- Sound level set function: random set within 40~130dB
- Demodulation feature: virtual value
- Time weighting feature: F (fast) and slow (S)
- Display: automatic display and circulation time of LCD is 1s, and the resolution is 0.1 dB.
- Maintenance feature: maintain max virtual value
- AC signal output: max virtual value is about 2V, impedance is 600Ω.
- DC signal output: 0.3V~1.3V (change according to 0.1V/10dB, load impedance is 1MΩ)
- Power supply: 1 laminated cell of 9V, with input hole of outer power supply



## QDF-6 Anemometer

- Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 1m long.
- Data hold to freeze the displayed value.
- Four digital LCD display
- Measure range: 0.05~30 m/s 5-6V rechargeable battery operated
- High resolution of 0.01m/s
- Basic accuracy:  $\leq 3\%$  full scale
- Dimension: 190×90×40 (mm)
- Working environment: temperature: -10~40, humidity:  $\leq 85\%$ RH, air pressure: 970~1040hPa
- Weight: 380g

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## LX-101 Luminometer

- Measure range: 0~50000LUX (three levels)
- Working environment: Temperature 0~50, Humidity: ≤80℃ %RH
- Sampling time: 0.4 s
- Display: LCD screen
- Overload input: display "1"
- Product size: 108×73×23 (mm)
- Weight: 160g (including battery)
- Power: DC9V cascade battery
- Resolution: 1LUX(1~1999LUX levels)
- Accuracy: ± (5%+2d)



## JHC Multiple Meters Kit

JHC environment test instrument set includes:

- JHC-3(A) Differential Pressure Meter
- QDF-6 digital anemoscope
- HS5633 Digital Sound Level meter
- LX-101 Luminometer

Case size: 460×350×110(mm)

The set is multi-function, high-precision packed in an aluminum carrying code case. It is portable, convenient to use, can be used to measure temperature, humidity, differential pressure, wind velocity, sound level and luminosity.



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## ACH-1 Air Capture Hood

The ACH-1 Accubalance Air Capture Hood is an instrument used to measure the air volume flowing through air-outlet, diffusers and grilles. It is easy to operate; it has a high accuracy and reliability which ensures the measurement is accurate, and the results can be saved. The different sizes for its cover, random accessories, calibration certification and carrying case can be different according to the Air inlet size. The ACH-1 Accubalance Air Capture Hood is researched and developed by the cooperation of **Honri Airclean** and Korea Hyundai Calibration & certification, and it is tested and approved by the experts of Shanghai Institute of Measurement and Testing (SIMT). It reaches the same level of the similar products internationally on accuracy and performance.

**Features:**

- Automatically display the wind direction: inlet flow or outlet flow;
- Conversion of the displayed units between m<sup>3</sup>/h and ft<sup>3</sup>/s;
- Back-lit display is easy to read in poor lighting conditions
- Compact packing makes the shipment convenient



**Technical index:**

|                   |  |                     |
|-------------------|--|---------------------|
| Measurement range | 150~3000m <sup>3</sup> /h                |                     |
| Accuracy          | ± 3% of read                             |                     |
| Resolution        | 1m <sup>3</sup> /hr                      |                     |
| Spec              | Standard size                            | 610×610mm(24"×24")  |
|                   |  | 760×760mm(30"×30")  |
|                   | Optional size                            | 1220×610mm(48"×24") |
|                   |  | 305×610mm(12"×24")  |
|                   |  | 305×1520mm(12"×60") |
|                   |  | 915×915 mm(36"×36") |
| Weight            | 4.5kg (Air Capture Hood size: 610×610mm) |                     |
| Battery           | 12 hours                                 |                     |

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**TECHNOLOGY**

## ***Horizontal & Vertical laminar flow bench***

### **SP,CZ desktop clean bench**

**SP,CZ on-desk clean bench** is a kind of new designed with small volume clean bench; it includes vertical clean bench and horizontal clean bench. It is specially designed for laboratory and working table.

**Parameters:**

| <b>Model</b>           | <b>SP-650</b>                          | <b>CZ-650</b>                          |
|------------------------|--|--|
| Cleanliness            | Class 100 @ $\geq 0.5\mu\text{m}$      |  |
| Average wind speed     | 0.3-0.45m/s                            |  |
| Noise                  | $\leq 60\text{dB(A)}$                  |  |
| Power supply           | 220V 50HZ                              |  |
| Power consumption      | 400W                                   |  |
| Working zone size (mm) | 600(W) $\times$ 495(D) $\times$ 500(H) | 600(W) $\times$ 400(D) $\times$ 535(H) |
| Outer size (mm)        | 650(W) $\times$ 535(D) $\times$ 860(H) | 650(W) $\times$ 700(D) $\times$ 625(H) |
| Fluorescent lamp       | 8W                                     |  |



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## SCW-CJ horizontal laminar flow bench (Mobile model)

### Features:

- Conveniently disassemble pre-filter (protect HEPA filter)
- Horizontal air flow. Open table (easy to operate)
- Ultra thin filter without separator. Minimum-size static pressure box
- Stainless steel table and glass side baffle
- Adjustable wind speed. Touch switch to adjust the wind speed



### Technical Parameters:

| Model                            | SCW-CJ-1B(1BU)                          | SCW-CJ-1C(1CU)      |
|----------------------------------|---|---------------------|
| Working Dimension(W×D×H)         | 820mm×480mm×600mm                       | 1680mm×480mm×600mm  |
| Figuration Dimension(W×D×H)      | 900mm×700mm×1450mm                      | 1760mm×700mm×1450mm |
| Air Cleanliness Within Work Area | Class 100@≥0.3μm(Federal Standard 209E) |                     |
| Average Flow Velocity            | 0.3-0.6m/s(Touch Switch, adjustable)    |                     |
| Noise Level                      | ≤62dB(A)                                |                     |
| Light Intensity                  | ≥320Lx                                  |                     |
| Power Rating                     | 0.4kw                                   | 0.8kw               |
| Power Supply                     | AC220V/50Hz                             | AC220V/50Hz         |
| Weight                           | 110Kg                                   | 200Kg               |
| Standard Filtration Elements     | 820×600×50×①                            | 820×600×50×②        |
| Fluorescent Lights               | 20W×①                                   | 40W×①               |
| Optional UV Light                | 20W×①(1BU)                              | 40W×①(1CU)          |

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**SCW-CJ vertical laminar flow bench (disassembled model is optional)**

**Features:**

- Conveniently disassemble (to protect the HEPA filter)
- Vertical air current
- HEPA filter ,Minimum-size static pressure
- Filter pressure indicator (optional)
- Stainless steel table.
- Adjustable wind speed, The touch switch is to adjust the wind speed



**Technical Parameters:**

| Model                                       |                           | SCW-CJ-1F(1FD)                        | SCW-CJ-2F(2FD)              |
|---|---------------------------|---------------------------------------|-----------------------------|
| Persons                                     |                           | single-person-single-side             | double-persons-double-sides |
| Dimension                                   | Working zone size (W×D×H) | 870mm×700mm×520mm                     | 1360mm×700mm×520mm          |
|   | Figuration (W×D×H)        | 990mm×700mm×1650mm                    | 1480mm×700mm×1650mm         |
| Technical index                             | Cleanliness               | 100 class@≥0.5μm (UCL 209E)           |                             |
|   | Mean falling bacteria     | ≤0.5 pcs/petri dish(φ90mm petri dish) |                             |
|   | Mean flow rate            | 0.3-0.6m/s(adjustable)                |                             |
|   | Noise                     | ≤62dB(A)                              |                             |
|   | Illumination              | ≥300Lx                                |                             |
|   | Vibration half peak       | ≤3μm                                  | ≤5μm                        |
| Maximum consumption                         |                           | 0.4kw                                 | 0.8kw                       |
| Power supply                                |                           | AC200V/50Hz                           | AC200V/50Hz                 |
| Weight                                      |                           | 110Kg                                 | 200Kg                       |
| HEPA Specification and quantity             |                           | 820×600×150×①                         | 600×600×150×②               |
| Fluorescent lamp Specification and Quantity |                           | 20W×①                                 | 20W×②                       |
| Ultraviolet lamp Specification and Quantity |                           | 20W×①                                 | 20W×②                       |

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## SCW-HS series Horizontal laminar clean bench

### Features:

- The thin filter without separator is adopted as well as SS stable and tempered glass side baffle makes a commodious & brightness working space.
- The aluminum alloy shutter can be used for fresh air intake adjustment.
- The work-board is made of stainless steel.



### Technical Parameters:

| Model/Parameter             | SCW-HS-840(single person) | SCW-HS-1300(double persons) |
|-----------------------------|---------------------------|-----------------------------|
| Cleanliness                 | 100 class@≥0.5μm(FS-209E) |                             |
| Average flow velocity (m/s) | 0.3-0.6m/s(adjustable)    |                             |
| Vibration Half Peak         | ≤3μm                      |                             |
| Noise                       | ≤65dB(A)                  |                             |
| Illumination (Lux)          | ≥300Lx                    |                             |
| Power supply                | 220V, 0.4KW               | 220V, 0.8KW                 |
| Weight                      | 160Kg                     | 350Kg                       |
| Working zone size (W×D×H)   | 720X650X570mm             | 1180X650X570mm              |
| Outline size(W×D×H)         | 840X825X1430mm            | 1300X825X1430mm             |
| HEPA                        | 760X610X50X1              | 610X610X50X2                |

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## SCW-VS series vertical laminar flow bench

**Features:**

- The table and the back scale-board are made of stainless steel, as well as tempered glass side baffle is adopted to make a commodious & brightness working space.
- Spring up-down movable door is equipped front, so the front glass door position is flexible and convenient.
- The Aluminum alloy shutter can be used for fresh air intake volume adjustment.
- By means of the adjustable fan system, the working voltage can be controlled by the membrane keypad to keep the air velocity of the working area in the required range.



**Technical Parameters:**

| Model /Parameters        | SCW-VS-840 (single person) | SCW-VS-1300 (double persons) |
|--------------------------|----------------------------|------------------------------|
| Cleanliness              | 100 class@≥0.5um           |                              |
| Average flow Velocity    | 0.3-0.6m/s (adjustable)    |                              |
| Vibration Half Peak      | ≤4μm                       |                              |
| Noise                    | ≤62dB(A)                   |                              |
| Illumination             | ≥300Lx                     |                              |
| Power supply             | 220V, 0.4KW                | 220V, 0.8KW                  |
| Weight                   | 160Kg                      | 420Kg                        |
| Working zone size(W×D×H) | 660×650×720 mm             | 1120×650×720 mm              |
| Outline size(W×D×H)      | 840×825×1760 mm            | 1300×825×1760 mm             |
| HEPA                     | 760×610×50×1               | 610×610×50×2                 |

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## SCW-BHC Biology-safe Cabinet



### Features:

- The air curtain design is used for preventing inside-outside intersectant pollution.
- The operator will be reminded of by the localizer for removable door at any time.
- The special filter is equipped with in the exhaust location to keep the exhaust air conform to the national sanitation requirement.
- The special waterproof socket and the drain valve are equipped with for convenient operation.

### Technical Parameters:

| Model/Parameters  |        | SCW-BHC-1300 II A1/B3           |
|---|--------|---------------------------------|
| Cleanliness   |        | 100 class @≥0.5um(FS-209E)      |
| Meaning falling bacteria                                  |        | ≤0.5/petri dish (φ90mm Utensil) |
| Mean Flow Rate  | Indoor | 0.38±0.025m/S                   |
|   | Midst  | 0.26±0.025m/S                   |
|   | Inner  | 0.27±0.025m/S                   |
| Air-Inhaled Velocity                                      |        | 0.55±0.025m/S                   |
| Air tightness   |        | ≤10-6m/s( under 500Pa)          |
| Noise level   |        | ≤62dB(A)                        |
| Vibration half peak                                       |        | ≤5μm                            |
| Power supply  |        | AC, single phase 200V, 50Hz     |
| Max. Consumption  |        | 0.6kw                           |
| Weight  |        | 350kg                           |
| Internal size (wxhxd, mm)                                 |        | 1300W×600D×640Hmm               |
| External size (wxhxd, mm)                                 |        | 1500W×805D×2230Hmm              |
| Inlet specification ad quantity                           |        | 1260×520×50× ①                  |
| Exhaust filter Specification and Quantity                 |        | 860×305×90× ①                   |
| Daylight lamp/ultraviolet lamp Specification and Quantity |        | 40w ① ×/30w× ①                  |

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## SCW-BCM Biology Clean Bench

### Features:

- Biological operating configuration. The drain valve is equipped with at the bottom of the work table and the HEPA is equipped with in exhaust location.
- The air flow is in circling design. The exhausting outlet will open when fresh air is largely complemented.
- Stretchy up-down movable door is equipped with in front and behind the bench, which makes the position flexible and convenient.
- Air curtain design prevents inside-outside intersectant pollution.
- 2 KW spare socket is equipped with for convenient operation



### Technical Parameters:

| Model/Parameter  |                     | SCW-BCM-1000A                  |
|--|---------------------|--------------------------------|
| Cleanliness  |                     | 100 class@≥0.5μm (FS-209E)     |
| Mean falling bacteria  |                     | ≤0.5pc/utensil (φ90mm utensil) |
| Average flow velocity  |                     | 0.25-0.45m/s(adjustable)       |
| Exhausted rate   |                     | 2m <sup>3</sup> /min           |
| Noise rate   |                     | ≤62dB(A)                       |
| Vibration Half Peak  |                     | ≤5μm                           |
| Illumination   |                     | ≥300Lx                         |
| Power supply   |                     | AC, single phase 200V50Hz      |
| Max consumption  |                     | 0.8kw                          |
| Weight   |                     | 300kg                          |
| Spec and size  | Working zone width  | 1000mm                         |
|  | Working zone depth  | 700mm                          |
|  | Working zone height | 620mm                          |
|  | Outline zone width  | 1160mm                         |
|  | Outline zone depth  | 760mm                          |
|  | Outline zone height | 1780mm                         |
| Inlet filter Specification and quantity                          |                     | 915×610×50× ①                  |
| Exhaust filter Specification and quantity                        |                     | 610×90×50× ①                   |
| Ultraviolet lamp and Fluorescent lamp Specification and quantity |                     | 20w× ②+20w× ②                  |

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**TECHNOLOGY**

**Other Purifying equipments**

**Air shower**

**Features:**

- HEPA filters is 99.99% efficient in removal of particles to 0.5 microns
- Custom sizes available
- Infrared ray automatic switch
- Direct drive, self-cleaning, high-pressure radial vane blower
- Material: Stainless steel and Cold rolled steel are optional



**Technical Parameters:**

| Model              | FLC-1C<br>(Single-Person-double-Side) | FLC-1DC<br>(Single-Person-Single-Side) |
|--------------------|---------------------------------------|--|
| Purge efficiency   | ≥99.95%@0.5μm                         |  |
| Spout diameter     | Φ38mm                                 |  |
| Spout wind speed   | ≥20m/sec                              |  |
| Operating time     | 0-60sec(adjustable)                   |  |
| Spout numbers      | 12 pcs                                | 6 pcs                                  |
| Power              | 380V,3.5kw                            | 380V,1.6kw                             |
| Weight             | 250kg                                 | 150kg                                  |
| Inside size(W×D×H) | 750×850×1900mm                        | 750×850×1900mm                         |
| Dim(W×D×H)         | 1550×900×2000                         | 1200×900×2000                          |
| HEPA filters spec  | 600×600×120×2                         | 600×600×120×1                          |

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## Fume hood

Cabinet: Complete cold-rolled steel. It adopts 1.2mm thickness high quality cold-rolled steel plate bending jointing molding. The surface is acid cleaning and phosphating, epoxy resin powder electrostatic high pressure sprays the surface. Acid and alkali resistance, high temperature resistance.

Work table: 15mm thickness Wilsonart epoxy resin board

Diversion kerb board: it adopts USA WILSONART imported 6mm thickness compact board, it has three layers (upper, middle, and down), it can exhaust different gases efficiently.

Backboard: it adopts USA WILSONART imported 6mm thickness compact board.

Roof: it adopts USA WILSONART imported 6mm thickness compact board. It can release the pressure for the to avoid explosion.

Window: adopt (3+3) double tempered glasses and film is sandwiched. Infinite variable speed counterpoise weight in the design, comfortable window movements to locate at any position

Exhaust hood: 1.2mm thickness exhaust hood with epoxy resin sprayed illumination: non-visual 30W Philips fluorescent lamp.

Socket: Taiwan WONPRO multi-function socket, the power line is 5-line-3-phase.

Control panel: Microcomputer controlling

Air flow adjuster: SENLAN brand

Hardware accessories: the door hinge is Italy imported EO, and the handle is good quality stainless steel "C" type handle.

Waterproof and adjustable feet.



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## Air shower Pass box/Pass box

Air shower Pass box and Pass box are used for medium size or small size goods delivery between clean room and clean room, clean room and unclean room, using interlock Air shower Pass box and Pass box can effectively reduce open-door times and minimize contamination degree at the lowest level.

**Features:**

- Interlock door
- Stainless steel 304 and painted steel are optional
- With UV lamp



**Technical Parameters:**

| Model     | Dimension(mm) | Working Zone size(mm) |
|-----------|---------------|-----------------------|
| SAT-1     | 990×1100×600  | 800×1000×600          |
| SAT-1(B)  |               |                       |
| SAT-2     | 790×900×600   | 600×800×600           |
| SAT-2(B)  |               |                       |
| SAT-3     | 690×600×400   | 500×500×400           |
| SAT-3(B)  |               |                       |
| JSAT-1    | 990×1800×600  | 800×1000×600          |
| JSAT-1(B) |               |                       |
| JSAT-2    | 790×1600×600  | 600×800×600           |
| JSAT-2(B) |               |                       |
| JSAT-3    | 690×1300×600  | 600×600×600           |
| JSAT-3(B) |               |                       |

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## YJS Mobile Clean Sampling Cabinet

According to the requirement of GMP standard, we design this model of YJS mobile clean sampling cabinet. The cleanliness of this equipment is the 10,000th levels which can be moved to any place that to be measured conveniently. It is used for raw material sampling for pharmacy. The equipment has the features of simple structure, good-looking appearance, flexible movement, economy, convenient use. It is indispensable to carry out the specification of the 26th clause of GMP.



## YJS-980A Sampling Cabinet

YJS-980A Sampling Cabinet supplies the 100th level mobile working zone, it is widely used to some cream shape products such as Chinese medicine, biology pharmacy.

### Technical Parameters:

| Model               | YJS-715   | YJS-980           | YJS-980A  |
|---------------------|---|-------------------|---|
| Working environment | TEM: 5~40℃ HUM: ≤80%RH Pressure: 86~106kPa                      |                   |   |
| Purified level      | 10000 class (UCL 209D)<br>≤3500000 pcs /m <sup>3</sup> (≥0.5μm) |                   | 100 class (UCL 209D)<br>≤35000 pcs /m <sup>3</sup> (≥0.5μm) |
| Mean flow rate      | 0.4m/s±20%(adjustable)  |                   |   |
| Noise               | ≤60dB (A)   |                   |   |
| Vibration           | ≤3μm(X/Y/Z three directions )                                   |                   |   |
| Lumination          | ≥300Lx  |                   |   |
| Power Supply        | 220V 50Hz Power: 400W   |                   |   |
| Purify zone size    | 615×615×1450 (mm)   | 880×660×1450 (mm) | 880×660×800 (mm)  |
| Dimension           | 715×715×1830 (mm)   | 980×760×1830 (mm) | 980×760×1350 (mm)   |
| Weight              | 100 kg  | 110 kg            | 100kg   |

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## ZJ Series self-cleaner

This device is used in cleaning working workshop, such as electronic; foodstuff, pharmacy and instruments & meters as clean unit installing on the roof and wall.

The main technical parameters:

- Purified efficiency:  $\geq 0.5\mu\text{m} \geq 99.99\%$  (Sodium Flame)
- Wind velocity:  $0.46\text{m/s} \pm 20\%$
- Noise:  $\leq 62\text{dB(A)}$
- Vibration:  $\leq 3\mu\text{m}$  (X/Y/Z three directions)
- Power supply: 220V 50Hz



## FFU (Fan Filter Unit)

Fan Filter Unit (FFU) is air cleaning equipment to supply purified air to the clean room for manufacturing semiconductor, liquid crystal, etc. The installation space is the system ceiling grid. For a large clean room, the number of required FFU is from several hundreds to several thousands.

### Features:

- Wind speed: 0.35m/s, 0.45m/s
- Noise: less than 55dB
- Power: 220V, 50Hz
- Highly efficient filter (filtration efficiency is 99.99%)
- Material: armor plate, stainless steel,
- Adjustable speeds
- Excellent performance
- Using a highly-efficient centrifugal air blower
- Durable, low noise, low vibration
- Free maintenance



### Technical Parameters:

| Model    | dimension(mm) | Flow rate(m <sup>3</sup> /h) | Power(W) | Noise(dB)  |
|----------|---------------|------------------------------|----------|------------|
| FFU-HR22 | 575×575×320   | 750                          | 110      | ≤52@0.3m/s |
| FFU-HR23 | 875×575×320   | 1100                         | 145      | ≤52@0.3m/s |
| FFU-HR24 | 1175×575×320  | 1600                         | 180      | ≤52@0.3m/s |

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## Filter box

### Features:



It is widely used in class 100,000 to 10 laminar or non-laminar cleanrooms and its applications are in pharmaceutical factory, food and beverage factory, Microelectronics industry, the semiconductor industry, optical laboratory etc.

The filter box can be installed in the "T" shape ceiling system conveniently (no need other equipments to press) and it can be connected to the air duct (10" or 12" diameter).

The filter box is made of special aluminum extrusion frame and once forming aluminum plate interface, the air diffuser is installed inside of the inlet, and the protecting net is installed on outlet to protect the filter. It has the futures of good intensity, low height, light weight and convenient movement and installation.

### Parameters:

| Air flow<br>M <sup>3</sup> /h | Initial resistance and efficiency |          | Filter size (mm) |                      |             | Exterior<br>size(mm) |
|-------------------------------|-----------------------------------|----------|------------------|----------------------|-------------|----------------------|
|                               | HEPA                              | ULPA     | Model I          | Model II             | Model III   |                      |
| 1000                          | 220pa                             | 250Pa    | 600*600*150      | 565*565*91 (trough)  | 530*530*80  | 600*600              |
| 1500                          | 99.99%                            | 99.9995% | 915*600*150      | 880*565*91 (trough)  | 845*530*80  | 915*600              |
| 2000                          | @0.3μm                            | @0.12μm  | 1210*600*150     | 1175*565*91 (trough) | 1140*530*80 | 1210*600             |

## GKF series air outlet

### Parameters:

| Air flow<br>M <sup>3</sup> /h | Initial<br>resistance<br>Pa | Efficiency           | HEPA Size<br>(mm) | Exterior size<br>(mm) | Outlet size<br>(mm) |
|-------------------------------|-----------------------------|----------------------|-------------------|-----------------------|---------------------|
| 500                           | 220                         | 99.99%<br>@<br>0.3μm | 320*320*80        | 370*370*370           | 380*380             |
| 1000                          |                             |                      | 484*484*80        | 534*534*370           | 544*544             |
| 1500                          |                             |                      | 630*630*80        | 680*680*370           | 690*690             |
| 2000                          |                             |                      | 1220*610*150      | 1270*660*440          | 1280*670            |



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## ***Filter (Pre-filter, medium and high efficiency)***

### **Pre-filter and medium Folding Filter with Metal Frame**

**Description:**

They are manufactured with nonwovens and glass fiber, etc. as the filtering materials. The wedge-shaped folds are used to enlarge the filtering area. They can also be manufactured to be a plate structure clamped with wire netting or supported with an inside metal framework and equipped with a metal outside frame. They have the characteristics of low resistance, long service life, can be washed, economy and durability, etc.

**Application:**

They are generally used in the prefiltration of the central air conditionings and the centralized ventilation systems and the prefiltration of the gas turbines and the air compressors.

**Structure:**

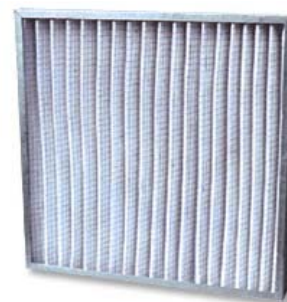
The inside structures of the filter are generally divided into keel framework and frame framework. The he characteristics of the keel framework include hardihood and uniform distribution of filtering materials, but its manufacture take time and energy. The characteristics of the frame framework include convenience in the exchanging of filter materials and time saving for its manufacture, but its strength is slightly poorer than that of the keel framework.

**Filter material:**

Nonwovens, synthetic fiber, (imported) chemical fiber, (imported) glass fiber and nylon meshwork that can be washed can be used as the filtering materials. The most commonly used ones are nonwovens, glass fiber and nylon meshwork. Their efficiencies can be up to coarse efficiency or medium efficiency.

**Technical data:**

| <b>Efficiency</b> | <b>Dust Holding Capacity (g/m<sup>2</sup>)</b> | <b>Initial resistance (Pa)</b> | <b>Properties</b> |
|-------------------|--|--------------------------------|-------------------|
| G3                | 90   | <50                            |                   |
| F5                | 160  | <40                            |                   |
| G3                | 90   | <40                            | Anti-flaming      |
| G4                | 36.6   | <35                            | Anti-flaming      |
| G4                | 32.3   | <35                            | Anti-flaming      |
| F5                | 28   | <35                            | Anti-flaming      |



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## Medium-efficiency Bag Filter

### Description:

Medium-efficiency bag filter is mainly used to filtrate the dust particles with the diameter of 0.5 $\mu$ m and above. It has the advantage of more filtering area, high dust holding capacity, low resistance, and can be washed and used repeatedly, etc.

### Applications:

Bag filters are extensively used in the ventilation systems of the central air conditionings and the purification of pharmacy industry, hospital, electron industry, and food industry, etc. Additionally, they can also be used in the front end filtration of the high-efficiency air filters to reduce their loads and prolong their service lives. Bag filters have dust holding capacity and low wind speed because of their big windward area. Therefore, they are regarded as the best medium-efficiency filter structure up to present.

### Structure:

They use new-type complex nonwovens or imported minute glass fiber and imported synthetic fiber and are covered with reinforcing and molding filter materials. They have bag-shaped moulds and are equipped with all kinds of metal outside frames (galvanizing plate, iron plate, and aluminum alloy, etc.)

### Filtering Material:

Generally, there are three kinds of filtering materials used, namely, complex nonwovens, synthetic fiber, and glass fiber.

### Technical data:

| Dust Holding Capacity(g/m <sup>2</sup> ) | Initial Resistance(pa) | Efficiency Grade |
|--|------------------------|------------------|
| 150                                      | 55                     | F5               |
| 107.6                                    | 50                     | F5               |
| 140                                      | 65                     | F6               |
| 96.9                                     | 60                     | F6               |
| 36.6                                     | 60                     | F6               |
| 120                                      | 120                    | F7               |
| 80.7                                     | 110                    | F7               |
| 32.3                                     | 110                    | F7               |
| 110                                      | 120                    | F8               |
| 75.3                                     | 120                    | F8               |
| 16.1                                     | 120                    | F8               |



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## HEPA (with or without separator)

### Application:

The product has the features of high-efficiency, low resistance, high dust holding capacity. It is widely used for all levels of clean rooms. It can be installed as final filter equipment as well as an accessory of all kinds of purified equipments.



### Technical data:

The different specifications are available according to customers' requirement.

| Dimension (mm) | Rated flow rate (m <sup>3</sup> /h) | Initial/final resistance (Pa) | Dust Holding Capacity (g/m <sup>2</sup> ) | Face Velocity (m/s) | Efficiency (0.3μm) |
|----------------|-------------------------------------|-------------------------------|---|---------------------|--------------------|
| 1220×610×90    | 2600                                | ≤160 / 400                    | 1600                                      | 0.97                | 99.99%             |
| 915×610×90     | 1900                                |                               | 1200                                      |                     |                    |
| 610×610×90     | 1300                                |                               | 800                                       |                     |                    |
| 915×610×69     | 1500                                |                               | 1000                                      | 0.75                |                    |
| 610×610×69     | 1000                                |                               | 650                                       | 0.6                 |                    |
| 915×610×50     | 1200                                |                               | 700                                       |                     |                    |
| 610×610×50     | 800                                 |                               | 450                                       |                     |                    |

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