



OPAK Smart Glas Wall  
Systems for Clean Room



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## COMPANY PROFILE

OPAK Smart Glas was established at 2017, located in Cologne

We are specializing in the purification area and sales of air purification equipment and have amount of experience in smart glass, display food processing, biochemistry, medicine, cosmetics, health products, micrielectronics, scientific research and teaching in the field. The belief to be a leader in the purification industry always drives us forward.

We are still committed to developing in GMP clean workshop, QS clean workshop, industrial clean workshop, aseptic room, biosafety laboratory and other standard clean workshops and supporting clean equipment.

We has established and improved the product quality management system according to the international standard, and the products has awarded more than ten national patents.

The company has set up a high-quality product research and development team, adhering to the sincere and trustworthy, serious and rigorous work style, constantly improve ourselves, make the business philosophy remain in 11 advanced technology, quality products, reasonable prices, the best service to satisfy the purification of the market".

# 1200 air shower series



## ▶ The performance characteristics of

1. The humanized high-tech intelligent programmable microprocessor controller in the air shower gives every user a great degree of convenienceSex, specificity, and security con-trols.
2. The angular air shower adopts Archimedes spiral design to provide 25m/s super-strong wind speed to ensure clean entryThe personnel and goods in the room achieve the perf-ect effect of thorough dust removal. Adopt automatic control operation, double door e-lectronic interlock, redOutside line induction automatic shower.

## ▶ Product working principle

The air in the air shower room is fed into the static pressure box by the fan through the pri-mary effect filter, and then filtered by the HEPA filter and cleanedClean air from the air sh-ower nozzle high-speed jet, nozzle Angle can be adjusted, can effectively blow off peopleor carry items surface attachedThe dust is recycled into the primary air filter, so that the circulation can achieve the purpose of air shower.

## ▶ Product usage and characteristics

Air shower is a personal purification device used by operators when they enter the clean room. It USES high - speed clean air - stream to get rid of the peoplewho enter the roomContent. The nozzle of the shower chamber can be adjusted to effectively remove dust from human body and prevent external pollutionfrom entering the clean area. It can also be applied to larger itemsShower of goods.

## ▶ Main technical parameters

project		Single and double flow shower	Double double flow shower	Many people double blowing air shower
External dimension W*L*Hmm		1200*1000*2180	1200*2000*2180	1200*3000*2180
Internal size W*L*Hmm		800*930*1910	800*1930*1910	800*2930*1910
Suitable for the number of		1-2人 1-2 people	2-4人 2-4 people	3-6人 3-6 people
Fan power supply, power		380v/50hz/750w 1台 380 v / 50 hz / 750 w / 1	380v/50hz/750w 2台 380 v / 50 hz / 750 w / 2	380v/50hz/750w 3台 380 v / 50 hz / 750 w / 3
The fan air volume is m / h		1200	1200	1200
Fan speed r/min		2800	2800	2800
Stainless steel nozzle		12pcs	24pcs	36pcs
Wind speed m/s		> =25-30	> =25-30	> =25-30
The noise dB is at 1m outside the device		< 62	< 62	< 62
High efficiency filter	The size in mm	610*610*100	610*610*100	610*610*100
	Efficiency %	99.99%@0f	99.99%@0.3μm	99.99%@0.3μm
	Air volume m after/h	1000	1000	1000
	Resistance at the beginning of the pa	< 220	< 220	< 220
Coarse filter	The size in mm	785*385*21	785*385*21	785*385*21
	Efficiency level	G3	G3	G3
	The efficiency of	75%@5μm	75%@5μm	75%@5μm
	Resistance at the beginning of the pa	< 30	< 30	< 30
Total equipment parameters	The power supply	380v/50hz	380v/50hz	380v/50hz

Note: in addition to the above dimensions, can accept customer non - customized



# Automatic air shower series



## Product introduction

1. Automatic door shower is equipped with high-tech automatic door opener on the basis of the original air shower configuration. Fully automatic door switch. It really realizes the automatic induction air shower, and the user opens the door automatically in the automatic door shower. After the shower induction area, according to the intelligent voice prompt operation, go out the direction automatically open the door.
2. The electronic interlock between two doors of the automatic door air shower can double the role of the airlock. Preventing external contamination and uncleanliness. The air enters the clean area, the automatic door air shower can prevent the person to bring the dust particle into the workshop to the greatest extent, achieves the prevention Anti-cross contamination effect.

## Product working principle

The air in the air shower room enters the static pressure box through the primary effect filter and is filtered by the high efficiency filter to clean the air. The air is ejected from the nozzle of the air shower at high speed, the nozzle angle can be adjusted, it can effectively blow off the surface of people or carrying items attached dust, the dust blown down is recycled into the primary air filter, so that the circulation can achieve the purpose of the air shower.

## Product usage and characteristics

Air shower is a personal purification device used by operators when they enter the clean room. It uses high-speed clean air stream to get rid of the people into the indoor body of dirt. Its air shower nozzle can be adjusted in order to effectively remove the human body dust and prevent external contamination from entering the clean area. It can also be used in the shower of large goods.

## Main technical parameters

project		Single and double flow shower	Double double flow shower	Many people double blowing air shower
External dimension W*L*Hmm		1400*1000*2180	1400*2000*2180	1400*3000*2180
Internal size W*L*Hmm		800*930*1910	800*1930*1910	800*2930*1910
Suitable for the number of		1-2人 1-2 people	2-4人 2-4 people	3-6人 3-6 people
Fan power supply, power		380v/50hz/750w 1台 380 v / 50 hz / 750 w / 1	380v/50hz/750w 2台 380 v / 50 hz / 750 w / 2	380v/50hz/750w 3台 380 v / 50 hz / 750 w / 3
The fan air volume is m <sup>3</sup> /h		1300	1300	1300
Fan speed r/min		2800	2800	2800
Stainless steel nozzle		12pcs	24pcs	36pcs
Wind speed m/s		> =25-30	> =25-30	> =25-30
The noise dB is at 1m outside the device		< 62	< 62	< 62
High efficiency filter	The size in mm	610*610*100	610*610*100	610*610*100
	Efficiency %	99.99% @ 0.3μm	99.99% @ 0.3μm	99.99% @ 0.3μm
	Air volume m <sup>3</sup> /h	1000	1000	1000
	Resistance at the beginning of the pa	< 220	< 220	< 220
Coarse filter	The size in mm	785*385*21	785*385*21	785*385*21
	Efficiency level	G3	G3	G3
	The efficiency of	75% @ 5μm	75% @ 5μm	75% @ 5μm
	Resistance at the beginning of the pa	< 30	< 30	< 30
Total equipment parameters	The power supply	380v/50hz	380v/50hz	380v/50hz

Note: in addition to the above dimensions, can accept customer non-customized

# Transfer window series



## ▶ Product introduction

Transfer window is mainly used for the transfer of small items between clean and clean areas and between clean and non-clean areas to reduce the number of clean room doors, maintain the positive pressure of the clean room, reduce the pollution to the clean room to the minimum level.

## ▶ Product working principle

1. The working area adopts sanding stainless steel plate, which is smooth and wear-resistant. The surface of the box body is made of two kinds of cold plate or stainless plate.
2. Mechanical interlock or electronic interlock devices are installed on both sides of the door so that both sides of the door cannot be opened at the same time.
3. The transfer window is equipped with special sealing strip to ensure air tightness.

## ▶ Product usage and characteristics

1. Double-door electronic interlock transfer window
2. Single-door mechanical interlock transfer window
3. Single-door electronic interlock transfer window;
4. Floor transfer window
5. Sterilization transfer window
6. Ozone sterilization transfer window
7. There are transmission Windows for walkie-talkies, etc
8. Electric transmission transfer window

## ▶ Main technical parameters

The project name	GCC-BX500	GCC-BX600	GCC-BX750	note
The product name	Standard transfer window	Standard transfer window	Standard transfer window	Transfer window can be based on On - site request
Working Area Size (mm)	L500*W500*H500	L600*W600*H600	L750*W750*H750	
External dimension (mm)	L665*W500*H590	L765*W600*H690	W915*L750*H840	
The body material	Cold rolled steel paint or stainless steel			
The tank material	Stainless steel			
Transmission window classification	Can be divided into standard transfer window and floor-to-ceiling transfer window (without access floor)			
The thickness of the material	1.0/1.2MM			
The power supply	50HZ220V			

Optional accessories: 1, electronic interlock 2, mechanical interlock 3, ULTRAVIOLET sterilization lamp

Note: in addition to the above dimensions, can accept customer non - customized

# Air shower transfer window series



## Product introduction

Air shower transfer window is a kind of auxiliary equipment for cleaning, which is mainly used for different pressure between clean room and non-clean area or different grade device for transferring small objects between clean rooms that ACTS as an airlock on the one hand and prevents the higher level of the clean room from being higher. The pressure is relieved. On the other hand, the spray effect is realized during the transfer process to ensure the self-cleaning of the items entering the clean area. Reduce cross-contamination from items; Its blowing time can be adjusted arbitrarily within 1 minute according to the actual needs, to the maximum extent to achieve the effect of spray and energy saving.

## Product features

1. Interlock device: there are two kinds of electronic interlock and mechanical interlock, so that two doors cannot be opened at the same time to ensure the cleanliness of the clean area;
2. Box material: made of high-quality cold-rolled steel plate with plastic spray or high-quality stainless steel; inner tank made of stainless steel;
3. Window configuration: transparent glass makes the workspace brighter;
4. Optional accessories: ULTRAVIOLET sterilization lamp, walkie-talkie, differential pressure gauge;
5. Air shower transmission window is equipped with high-efficiency air filter, fan and other purification devices, noise ≤65Db, with stainless steel nozzle, wind 22-27 m/s speed or greater;
6. Power supply and power: 3N 380V 50HZ 750W

## Main technical parameters

The project name	风淋传递窗		
model	GCC-600	GCC-750	GCC-800
External dimension W*L*Hmm	940*600*1450	1090*750*1500	1140*800*1550
Internal size W*L*Hmm	600*600*600	750*750*750	800*800*800
Size of primary filter (mm)	570*290*17 ( 1个 ) 570*290*17 ( 1 )	745*290*17 ( 1个 ) 745*290*17 ( 1 )	795*290*17 ( 1个 ) 795*290*17 ( 1 )
Hepa filter size (mm)	610*610*120 ( 1个 ) 610*610*120 ( 1 )	610*610*120 ( 1个 ) 610*610*120 ( 1 )	610*610*120 ( 1个 ) 610*610*120 ( 1 )
Fan power supply, power	380V/50Hz/750W ( 1台 ) 380V/50Hz/750W ( 1 )	380V/50Hz/750W ( 1台 ) 380V/50Hz/750W ( 1 )	380V/50Hz/750W ( 1台 ) 380V/50Hz/750W ( 1 )
Fan air volume (m <sup>3</sup> /h)	1200	1200	1200
Fan Noise (dB)	< 65	< 65	< 65
Fan speed (R/min)	2800	2800	2800
The nozzle	Stainless steel Φ 38 (4)	Stainless steel Φ 38 (> = 4)	Stainless steel Φ 38 (> = 4)
High efficiency filter	> 99.99% @ 0.3μm	> 99.99% @ 0.3μm	> 99.99% @ 0.3μm

Note: in addition to the above dimensions, can accept customer non - customized

# High efficient air outlet with partition

## ▶ Product introduction



The efficient air outlet is designed with the latest technology from Japan, which makes the airflow distribution more reasonable and the box structure simple and reliable. The shell with the steel plate is made, and the surface is treated by multi-layer pickling and anti-static spraying. The color is ivory white, containing static pressure phase, dissipative plate, high efficiency. The connection between the filter and the air duct can be top or side connection. The air supply outlet has good air distribution to reach the clean area and reduce de-ath. The purpose of the zone ensures the purification effect; It is used as a terminal filter for renovation and construction of 1000-300000 level clean rooms. The device is the key equipment to meet the requirements of purification.

## ▶ Product features

1. The box body of high efficiency air supply port is made of high quality cold-bonded steel plate, the external surface is treated with electrostatic spraying and distributed flow plate.
2. The efficient air supply port has compact structure and reliable sealing performance. The air inlet mode includes side air inlet and top air inlet, and the flange port is square and square. The two structures are circular.
3. High efficiency air supply outlets may be integrated when the clean room is limited by civil height or compact design is necessary. High efficiency filter air supply port.
4. The efficient air supply outlet has insulation layer and stainless steel material to choose from.

## ▶ Main technical parameters

project		Mounting dimensions of box (A * B * H mm)	Box dimensions (T * S * R mm)	Filter size (mm)	Air duct inner dimensions (D * C mm)	Air duct connection size E * (F mm)	The rated air flow (m after/h)
Top air supply	Side supply air						
GCC-320D	GCC-320C	390*390*500	434*434*500	320*320*220	200*200	250*250	400-500
GCC-484D	GCC-484C	554*554*500	598*598*500	484*484*220	320*200	370*250	1000
GCC-610D	GCC-610C	680*680*500	724*724*500	610*610*150	320*250	370*300	1000
GCC-630D	GCC-630C	700*700*500	744*744*500	630*630*220	320*250	370*300	1500
GCC-915D	GCC-915C	985*680*500	1029*724*500	915*610*150	500*250	550*300	1500
GCC-1220D	GCC-1220C	1290*680*500	1334*724*500	1220*610*150	500*200	550*250	2000
GCC-1260D	GCC-1260C	1330*700*500	1374*744*500	1260*630*220	600*250	50*300	3000

Note: in addition to the above dimensions, can accept customer non - customized



# High efficient baffle free air outlet

## ▶ Product introduction



The efficient air outlet is designed with the latest technology from Japan, which makes the airflow distribution more reasonable and the box structure simple and reliable. The shell with the steel plate is made, and the surface is treated by multi-layer pickling and anti-static spraying. The color is ivory, including static pressure box, dissipative plate, high efficiency. The connection between the filter and the air duct can be top or side connection. The air supply outlet has good air distribution to reach the clean area and reduce death. The purpose of the zone ensures the purification effect; It is used as a terminal for renovation and construction of 1000-300000 level clean rooms. Filter device is the key equipment to meet the requirements of purification.

## ▶ Product features

1. The box body of high efficiency air supply port is made of high quality cold-bonded steel plate, the external surface is treated with electrostatic spraying and distributed flow plate.
2. The efficient air supply port is compact in structure and reliable in sealing performance. There are side air inlet and top air inlet, and the flange port is square and round. There are two kinds of structure.
3. High efficiency air supply outlet. When the clean room is limited by civil height or compact design is necessary, the integrated height can be used. Efficiency filter air outlet.
4. The efficient air supply outlet has insulation layer and stainless steel material to choose from.

## ▶ Main technical parameters

project		Mounting dimensions of box (A * B * Hmm)	Box dimensions (T * S * Rmm)	Filter size(mm)	Air duct inner dimensions (D * Cmm)	Air duct connection size E * (Fmm)	The rated air flow (m after/h)
Top air supply	Side supply air						
GCC-320D-1	GCC-320C-1	370*370*370	434*434*370	320*320*96	200*200	250*250	500
GCC-484D-1	GCC-484C-1	534*534*370	588*588*370	484*484*96	320*200	370*250	1000
GCC-610D-1	GCC-610C-1	660*660*370	744*744*370	610*610*96	320*250	370*300	1500
GCC-915D-1	GCC-915C-1	965*625*370	1334*724*370	915*575*96	500*200	550*250	2000
GCC-1220D-1	GCC-1220C-1	1270*660*370	1374*744*370	1220*610*96	600*250	650*30	3000

Note: in addition to the above dimensions, can accept customer non - customized

# DOP efficient air outlet



## ▶ Product introduction

With the internationalization of drug sales, drug manufacturers face frequent testing and validation. The old "efficient air outlet" is no longer fullFoot needs; Biological cleanrooms require a new type of terminal high efficiency air supply device to meet the requirements of field verification and reduce downtimeAnd effectively reduce the impact of validation on production.

## ▶ The efficient air supply device at the end of the biological clean room shall have the following functions

1. Ensure that the whole air supply device is free from corrosion for a long time under the conditions of sterilization, disinfection and humid harsh air environment;
2. The method of DOP injection can be used in the field to achieve the integrity test of the efficient air supply end;
3. The pressure difference of HEPA can be easily detected and the replacement time of HEPA can be scientifically determined.Fast and no leakage replacement;
4. According to production or verification requirements, it is convenient to realize fine-tuning of air flow from tuyere in the clean room; Liquid tank sealed efficientThe air supply outlet is a high efficiency air supply outlet sealed with jelly glue and a high efficiency air supply outlet sealed with liquid tank with replaceable high efficiency filterWidely used in hospitals, biopharmaceuticals, semiconductors, liquid crystal manufacturing, precision machinery, optics and other technical fields.

After the implementation of the new GMP, both the air supply port and the filter have to go through DOP dust detection. DOP liquid tank produced by our companyThe air supply mouth is made of high quality cold rolled steel plate baking paint or stainless steel, and the box body is solid, beautiful and corrosion-resistant.

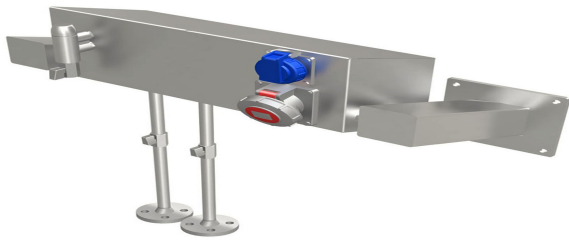
## ▶ Advantages of DOP air outlet

1. The air supply outlet of DOP liquid tank adopts the knife edge type inserted into the liquid tank filter to achieve sealing inside jelly, avoiding the air supply leaking from the installation gap, which can pass the integrity test of DOP dust at one time;
2. Two DOP joints, one for dust emission and one for detection, are installed on the air supply port of DOP liquid tank, so as to facilitate users to conduct DOP dust emission detection and test the pressure difference of hePA filter in front of a single filter in the filtered air, and quickly disassemble and connectThe hose connected under the head is connected to the bottom of the box body, so as to ensure the dust concentration of the filter upstream is uniform; Rotary press block, convenient for safe and quick replacement of filter; Liquid tank seal to ensure no leakage of the replacement filter;

Project (Top air supply)	Case mounting size (B*A*H:mm)	Filter size (mm)	Air duct inner size (C*D:mm)	Rated air rate (m /h)
GCC-DOP-500	418*418*370	418*418*370	348*348*96	500
GCC-DOP-1000	582*582*370	582*582*370	512*512*96	1000
GCC-DOP-1500	708*708*370	708*708*370	638*638*96	1500
GCC-DOP-2000	1013*708*370	1013*708*370	943*603*96	2000
GCC-DOP-3000	1318*708*370	1318*708*370	1248*638*96	3000

Note: in addition to the above dimensions, can accept customer non - customized

## Stainless steel products



Stainless steel socket box



Oxygen terminal box



Stainless steel shoe changing stool



Stainless steel writing table



Drying car



Sanitary ware frame



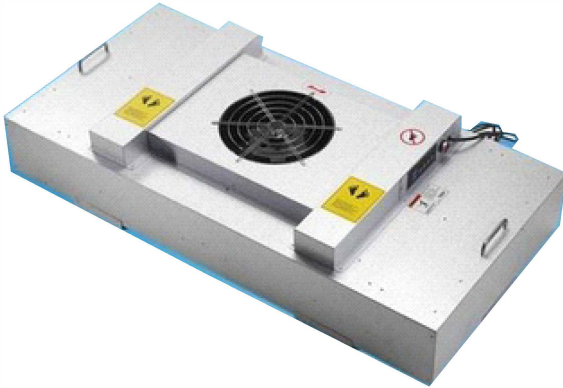
Air shoe rack



step

# FFU filter unit series

## Product features



1. The fan adopts direct drive type high efficiency centrifugal fan, with long life, low noise, maintenance-free, small vibration and stepless speed regulation. And so on, the fan quality is reliable, the working life as long as tens of thousands of hours above.
2. It is especially suitable for assembling a super clean production line, which can be arranged for a single set or multiple sets in series according to the technological requirements into 100 flow small assembly line.
3. The shell structure is made of stainless steel, aluminum alloy and cold-rolled steel plate, which is light in weight, corrosion-resistant, rust-resistant and beautiful.
4. The products are scanned and detected by dust particle counter one by one according to us federal standard 209E before leaving the factory to ensure the quality.

## Main technical parameters

model		FFU-553	FFU-963	FFU-153	FFU-163	FFU-113
Overall dimensions		575*575*350	920*615*350	1175*575*350	1225*615*350	1175*1175*350
Surface wind speed		0.45±20%				
The noise dB (A)		≤52	≤52	≤52	≤52	≤52
Air volume m after/h		500	800	1000	1200	2100
efficient The filter	尺寸mm	570*570*69	915*610*69	1170*570*69	1220*610*69	1170*1170*69
	效率%	≥99.99% @0.3μm				
The power supply		AC单相, 220V/50Hz AC single phase, 220V/50Hz				
Power (W)		120	123	123	172	220
External residual pressure (Pa)		50-130				
vibration		≤4μm				
The body material		Aluminum zinc plate/stainless steel/aluminum plate/cold plate				

Note: in addition to the above dimensions, can accept customer non - customized



# Primary bag filter



## ▶ Product introduction

The laboratory bench is one of the basic equipment necessary for laboratories in various industries. It has reasonable design and beautiful appearance. Of the combined structure style; The main supporting frame with easy installation and strong bearing capacity; It is fully functional. Water supply and drainage system, electric control system, gas distribution system and exhaust gas output system. The design of the product fully considers the needs of professionals and users. Not only can be flexible group, and easy to organize. And for the boiling water, inserted the seat and water, electricity, gas pipelines set aside a larger hidden space.

## ▶ Normal size of test bed

long	wide	High (table top + reagent holder)
2400	1400-1500	800-900 ( +750 )
3000	1400-1500	800-900 ( +750 )
3600	1400-1500	800-900 ( +750 )
4200	1400-1500	800-900 ( +750 )
4800	1400-1500	800-900 ( +750 )

## ▶ Specific parameters of the test bed

mesa		Table frame		Table body	
material	color	material	color	material	color
Fire prevention board	Fashion grey/dark green/Lake orchid/black	Total Wood (QM)	Fashion grey/Sapphire blue	E1 class 16mm double veneer Melamine board	Fashion grey/Sapphire blue
Veneered physiochemical board	Fashion grey/dark green/Lake orchid/black	Aluminum frame (LM)	Fashion grey/green	E1 class 18mm double veneer Melamine board	Fashion grey/green
Solid physical and chemical board	Fashion grey/dark green/Lake orchid/black	Square steel frame (GM)	Fashionable grey	E1 class 18mm double veneer Melamine density board	Fashionable grey
Resistance times the special plate	Fashion grey/dark green/Lake orchid/black				
Epoxy resin board	Fashion grey/dark green/Lake orchid/black				
Thought plate	Fashion grey/dark green/Lake orchid/black				

Note: in addition to the above dimensions, can accept customer non - customized

# Laboratory equipment



## ► Fume hood features

**Safety:** Three guide plates remove harmful gases in different heights from different sections, and the fume hood discharges the air in the fume hood at a speed of 0.5m/s from the operating surface to ensure that there is no residue. There is gas, high ventilation efficiency, exhaust air volume is 450-1600m<sup>3</sup>/h, and low noise. It can provide more safe and comfortable test space for experimenters.

**Intelligent control:** ventilation is controlled by integrated panel of fan exhaust, water, electrical and ventilation. It can be equipped with anti-corrosion, explosion-proof floodlight and multi-function (three-phase, single-phase) socket. Specific gas pipe and multiple water pipe connection. My mouth. Can meet a variety of test water, gas, electricity requirements.

**Economy:** Compared with the traditional fume hood, it can save about 50% of energy under the air conditioning environment.

## ► Fume hood specific parameters

Size L * W * H mm	1200*800*2350	1500*800*2350	1800*800*2350
In size L * W * H mm	1000*700*2350	1300*700*2350	1600*700*2350
Glass door height	650-700mm		
Face speed	0.3-0.8m/s		
Glass door fully open surface wind speed When is 0.5m/s, the exhaust air volume about	1000m <sup>3</sup> /s		
Operating voltage, current	AC220V/10A		
Fluorescent lamp	30W*1		

Note: in addition to the above dimensions, can accept customer non - customized

# Primary bag filter



## Product introduction

The mobile self-purifier shell is all made of cold-rolled steel plate, baking paint, with its own fan, initial filter screen, air supply static pressure box, Hepa filter and equalizing plate. Variable air volume fan system, multi - speed regulation. The air outlet end of the self-purifier can reach highClean local environment, can be used with related equipment. The bottom of the air self-cleaning unit is provided with a brake casters and adjustable feetThe cup can be fixed after being moved to the desired position as required.

## Product features

1. Easy to operate, easy to move, especially suitable for places with frequent changes in clean areas;
2. Equipped with adjustable aluminum alloy air outlet, return air outlet and air volume can be adjusted according to needs.

## The specific parameters

model	GCC-01	GCC-02	GCC-03	GCC-04
External size (W*D*Hmm)	700*450*1600	700*550*600	700*500*1800	700*600*1800
Hepa filter specification	610*610*69	610*610*120	610*810*69	610*810*120
Filtration efficiency	99.99%@0.3μm			
The rated air flow	1200m³/h		1800m³/h	
Power consumption	300W		260W	
The wind speed	0.4-1.5m/s			
The power supply	220v1Φ50Hz			
other	With single aluminum gold louver			
The material	High quality cold rolled steel sheet sprayed			
The weight of the	约65kg	约75kg	约90kg	约110kg

Note: in addition to the above dimensions, can accept customer non - customized

## Clean Shed series



### ▶ Product structure

The material takes 40\*40 or 40\*80mm industrial aluminum profile as the frame, adopts fan filter net air supply unit FFU air supply, around with anti-static curtain or anti-static plexiglass, the top is covered with dense seam blind plate to form a denseIn the seam area, the internal purification level can reach 10,000-100; It is especially suitable for areas with high purification level, such as assembly line area and high precision product assembly area.

### ▶ Product features

1. Assembly structure design, easy installation, greatly shorten the delivery cycle.
2. Easy to move (universal wheel can be installed); It is suitable for constructing clean areas with small area.
3. Modular structure, easy to improve the purification level, strong expansibility, and high reuse value.
4. Relatively super clean workbench with large internal available effective space; Compared with the traditional dust-free room, the cost is low, the construction is fast, and the height is not limited

### ▶ Commonly used material

1. Bracket: special aluminum profile, iron or stainless steel profile.
  2. Anti-static curtain: 0.3mm thick mesh, good anti-static effect, high transparency, clear mesh, soft, good toughness, no deformation, not easy to aging, temperature insulation, dustproof and electrostatic performance.
  3. Anti-static plexiglass plate: good anti-static effect, high transparency, not easy to aging, suitable for high requirements occasions.
  4. Top sealing plate of c-clean shed: The cleaning blind plate can be made of 0.3mm anti-static curtain, 1.0mm aluminum plate or cold plate baking paint.
  5. Purification lighting system can be used in the clean shed.
- Fan filter air supply unit FFU: low noise centrifugal fan, with long life, low noise, maintenance free, small vibration, adjustable speed. The high efficiency filter (HEPA) is set at the end of the fan supply unit. HEPA is characterized by small initial resistance, large dust capacity, high filtration efficiency, long service life and easy replacement.



# Laminar flow transfer window



## Product introduction

Laminar flow transfer window is a kind of auxiliary equipment for clean room. It is mainly used for different pressure between clean and non-clean areas. The transfer of small objects between clean rooms ACTS as an airlock on the one hand, preventing higher cleanrooms from being elevated. The pressure is relieved. On the other hand, the self-purification effect is achieved during the transfer process to ensure the self-cleanliness of the items entering the clean area. Reduce cross-contamination from items; The blowing time can be adjusted according to the manual switch, to achieve the maximum self-cleaning. And the effect of energy saving.

## Basic performance requirements

1. Cleanliness requirements in the laminar flow transfer window: Grade B;
2. The inner and outer double-shell is processed with circular arc around the interior to ensure seamless connection;
3. Laminar flow design is adopted, the flow direction adopts the upsend and down-return mode, and the bottom adopts 304 Stainless steel punch design, and set reinforcing bars;
4. Filter: G4 is used for primary filter, H14 is used for high efficiency filter;
5. Wind speed: After passing the hePA filter, the outgoing wind speed is controlled at 0.38-0.57m/s (Test at 150mm under the high-efficiency air flow sharing plate);
6. Differential pressure function: display filter differential pressure (0-500pa high efficiency / 0-250pa medium efficiency), Accuracy of  $\pm 5$  pa;
7. Control function: fan start/stop button, equipped with built-in electronic door interlock; Set ultraviolet lamp, design separate switch;
8. The hePA filter can be removed and installed separately from the upper box for easy maintenance. And replace the filter;
9. Noise: noise  $< 65$  dB when the transmission window is in normal operation;
10. High efficiency air flow sharing plate: 304 stainless steel orifice plate.



风淋传递窗



层流自净传递窗



升降传递窗

## Material composition and operating conditions

model	GCC-PBF-600	GCC-PBF-800
Working Area Size (mm)	W600xL600xH600	W800xL800xH800
External dimension (mm)	W770xL680xH1200	W870xL880xH1400
Wind speed at nozzle (m/s)	0.3-0.45	
Blow time (s)	Manual control	
Main material of box body	The box body and inner wall are made of stainless steel SUS304#	
Hepa filter size	320x320x96	
Filtration efficiency	(H14)99.995%@0.3μm	
Fan power (W)	135W	
The power supply voltage	220V/50Hz	

Note: in addition to the above dimensions, can accept customer non - customized

# Supply of smallpox

## ▶ Product introduction



I level (level), II level (thousand), III level (level), the body generally use cold rolled steel high temperature of the lacquer that bake, Optional: cold panel, stainless steel panel, gauze, LED, shadowless lamp, operating room control panel.

Supply air smallpox is a kind of purification device which must be used in modern hospital operating room. Its device is based on leading resistance at home and abroad Leakage layer technology, clean air supply ceiling device in hospital operating room, the use of this equipment can reasonably distribute the air flow in the clean room, yes Ensure the cleanliness of the room (level 100). Can be widely used in hospital clean operating room, clean ward, clean Clean animal room and other items. Case sheet metal production, surface baking paint. With the rapid development of modern medical science and technology, surgery The requirement of clean condition of operation room is getting higher and higher. Hundreds of laminar flow operating room is the most ideal at present. But as How to effectively manage the number of air colonies in laminar flow operating rooms in line with the air environmental hygiene standards issued by the Ministry of Health, and also Clean operating room grade standards, and to reduce it to a minimum, the domestic search literature is less, is currently clean A new topic worth discussing in operating room management. Laminar air supply ceiling is the use of air cleaning technology for microbial contamination Different degrees of control are adopted to control the air cleanliness in the space environment suitable for all kinds of operations. And provide Appropriate temperature and humidity to create a clean and comfortable operating space environment.

## ▶ Application field

Widely used in clean operating room, clean ward, clean animal room and other projects.



## ▶ Material composition and operating conditions

Model/Parameters	GCC-I型	GCC-II型
Filtration efficiency	H13@99.95%	H13@99.95%
Outgoing wind speed (m/s)	0.3-0.45	0.3-0.45
External dimension (mm)	2600×2400×500	2600×1800×500
Hepa filter specification and quantity	610×305×292×8个/台 610×305×292×8 / Taiwan	610×305×292×6个/台 610×305×292×6 / Taiwan
Use occasions	Class I special clean operating room	Class II standard clean operating room

Note: in addition to the above dimensions, can accept customer non - customized

# Horizontal flow super clean table

## Product introduction



1. Ultra-thin clapless filter is adopted to minimize the size of the static pressure box, coupled with stainless steel table and glass baffle. Make whole work area appears capacious and bright.
2. Easy to disassemble coarse effect filter with large air volume, better protection of high efficiency filter, and ensure the wind speed.
3. Horizontal manifold, open table, easy to operate.
4. Adopt the air supply system with adjustable air volume, and adjust the wind speed stepless, so that the wind speed in the working area is in the ideal state.

## Application field

Medical and health, biopharmaceutical, food, medical science experiments, optical optoelectronics, electronics, aseptic laboratory experiments, aseptic microbiologicalScientific environment and production departments, such as material inspection and plant tissue culture inoculation.



## Material composition and operating conditions

project	Single level workbench	Small double level workbench	Large double level workbench
model	GCC-CBL-960	GCC-CBL-1200	GCC-CBL-1500
External size (W×L×Hmm)	960×780×1580	1200×820×1580	1500×900×1580
Workspace size (W×L×Hmm)	930×600×650	1170×600×600	1470×600×600
Cleanliness Grade (ISO14644-1)	100级 The class of 100	100级 The class of 100	100级 The class of 100
Rated air rate (m <sup>3</sup> /h)	1200	1800	2300
Mean wind speed (m/s)	0.3~0.6	0.3~0.6	0.3~0.6
Filtration efficiency (%@0.3 μm)	99.99	99.99	99.99
Illuminance (ux)	300	300	300
or higherPower (w)	280	405	490
Noise dB(edge of equipment)	≤65	≤65	≤65
Power (V/Hz)	220/50	220/50	220/50
Specification and Quantity of fluorescent lamps (Wx pieces)	20×1	30×1	40×1
The material	The box is made of cold rolled steel or stainless steel The table is sanding stainless steel		

Note: in addition to the above dimensions, can accept customer non - customized

# Vertical super clean table

## ▶ Product features



1. Adopting ultra-thin diaphragm less filter; the filtering efficiency can reach the static level. Reduce the size of the hydrostatic chamber to the minimum, and then match With stainless steel mesa and glass side baffle make whole work area appears capacious and bright.
2. vertical flow ultra-clean table using adjustable air supply system light touch switch to adjust the wind speed, so that the ultra-clean table workZone wind speed treatment Ideal state fan adopts direct drive type high efficiency centrifugal fan, with long life, low noise, maintenance free, Little vibration.
3. The formula makes the disassembled large-air prefiltration rough-effect filter better protect the high-efficiency filter of the super-clean table and protect it Verify the super clean table wind speed.

## ▶ Widely used

Medical and health, biopharmaceutical, food, medical science experiments, optical optoelectronics, electronics, aseptic laboratory experiments, aseptic microbiologicalScientific environment and production departments, such as material inspection and plant tissue culture inoculation.

## ▶ Material composition and operating conditions

project	Single level workbench	Small double level workbench	Large double level workbench
model	GCC-CBV-1000	GCC-CBV-1200	GCC-CBV-1500
External size (W×L×Hmm)	1000×700×1800	1200×700×1800	1500×700×1800
Workspace size (W×L×Hmm)	900×650×600	1100×650×600	1400×650×600
Cleanliness Grade (ISO14644-1)	100级	100级	100级
Rated air rate (m <sup>3</sup> /h)	1200	1800	2300
Mean wind speed (m/s)	0.3~0.6	0.3~0.6	0.3~0.6
Filtration efficiency (%@0.3 μm)	99.99	99.99	99.99
Illuminance (ux)	300	300	300
or higherPower (w)	280	405	490
Noise dB(edge of equipment)	≤65	≤65	≤65
Power (V/Hz)	220/50	220/50	220/50
Specification and Quantity of fluorescent lamps (W× pieces)	10×1	30×1	40×1
The material	The box is made of cold rolled steel or stainless steel The table is sanding stainless steel		

Note: in addition to the above dimensions, can accept customer non - customized

### Lifting door super clean working table





# DOP efficient air outlet



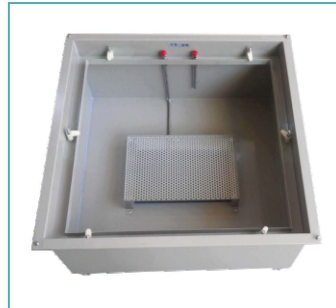
## Product introduction

The liquid tank sealed high efficiency air supply port is a high efficiency air supply port with replaceable high efficiency filter jelly glue sealing waySlot sealed efficient air supply port is widely used in hospitals, biopharmaceuticals, semiconductors, liquid crystal manufacturing, precision machinery, opticsAnd other technical fields.

The surface of the box body is treated by electrostatic spraying, which has strong corrosion resistance. The design of liquid tank seal further enhances its sealing.

## Product features

1. The air supply outlet of the liquid tank adopts the knife edge type to insert the jelly glue of the liquid tank filter to achieve sealing, avoiding the air supply from the installation gapIt can pass the integrity test of DOP dust at one time.
2. Install two DOP joints on the air outlet of the liquid tank, one for dust generation and one for detection, so as to facilitate users to face the air outlet of the filterSingle filter for DOP dust detection and test the pressure difference of hePA filter. Quick disconnect the connecting hose to the boxBottom of the body, so that the filter upstream dust concentration can ensure uniform.
3. Rotary press block, convenient for safe and quick replacement of filter; The tank seal ensures no leakage of the replacement filter.



## Material composition and operating conditions

High efficient baffle free air outlet	model	GCC-DCT320-1	GCC-DCT484-1	GCC-DCT610-1
	Case specification (W×L×Hmm)	390×390×380	554×554×380	680×680×380
	Filter specification (W×L×Hmm)	320×320×96	484×484×96	610×610×96
	Flange mouth size (A×Bmm)	200×200	320×200	400×200
	Rated air rate (m <sup>3</sup> /h)	500	1000	1500

Note: in addition to the above dimensions, can accept customer non - customized

# Efficient air outlet



## ► The airflow distribution is more reasonable

Designed with the latest Japanese technology to make airflow distribution more reasonable and box structure more simple, it is used for renovation and new construction. The terminal filtration unit of grade 1000~300000 clean room is the key equipment to meet the purification requirements.

## ► Use of high quality sheet

The box body is made of cold rolled steel plate or stainless steel;

## ► Carefully designed scattered-flow plate

According to the principle of aerodynamics, the designer carefully designed the scattered-flow plate to ensure the jet velocity and prevent the generation of eddy currents.

## ► Flexible air supply

Flange mouth square and round two, compact structure, reliable sealing, insulation cotton can be provided.

## ► Applicable fields

It is suitable for heterogeneous clean rooms of various grade and roof structure.



## ► Material composition and operating conditions

High efficient baffle free air outlet	model	GCC-DCT320-2	GCC-DCT484-2	GCC-DCT610-2
	Case specification (W×L×Hmm)	390×390×380	554×554×380	680×680×380
	Filter specification (W×L×Hmm)	320×320×96	484×484×96	610×610×96
	Flange mouth size (A×Bmm)	200×200	320×200	400×200
	Rated air rate (m <sup>3</sup> /h)	500	1000	1500
High efficient baffle free air outlet	model	GCC-DCT320-3	GCC-DCT484-2	GCC-DCT610-3
	Case specification (W×L×Hmm)	390×390×500	554×554×380	680×680×500
	Filter specification (W×L×Hmm)	320×320×220	484×484×96	610×610×220
	Flange mouth size (A×Bmm)	200×200	320×200	400×200
	Rated air rate (m <sup>3</sup> /h)	500	1000	1500

Note: in addition to the above dimensions, can accept customer non - customized

# Fan Filter Unit (FFU)



## Product introduction

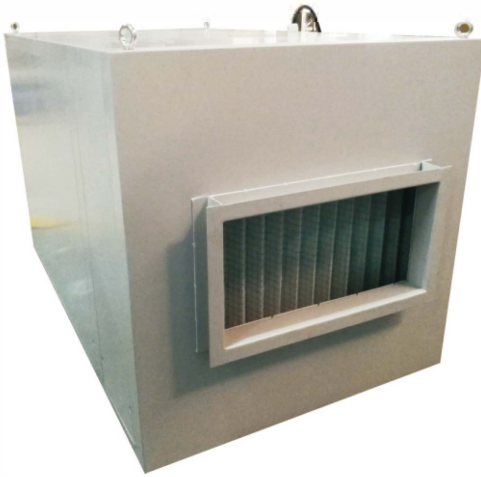
1. Stepless speed regulation design, maintenance-free, small vibration, low noise;
2. Before delivery, dust particle counter is scanned and detected one by one according to international standard ISO14644-1 to ensure quality. Can be connected with thousands of control control, reduce the incidence of failure;
3. High energy efficiency ratio and low calorific value, which can further reduce the calorific value of the additional working environment area;
4. It is especially suitable for assembling a super clean production line, which can be arranged for a single set or multiple sets in series according to the technological requirements into 100 grade assembly line.
5. The fan is driven directly by high-efficiency centrifugal fan, and the shell structure is made of stainless steel, aluminum-zinc plate and other materials, which is light in weight. Anti-corrosion, anti-rust, beautiful and generous.

## Material composition and operating conditions

model	GCC-FFU900	GCC-FFU1000	GCC-FFU1200	GCC-FFU500	GCC-Q435-HNAC	GCC-FFU800
Module size (W×L×Hmm)	920×615×350	1175×575×350	1225×615×350	575×575×350	615×615×350	575×875×350
Hydrostatic box material	A3 cold spray/aluminum zinc plating/stainless steel		A3 cold spray/aluminum zinc plating/stainless steel		A3 cold spray/aluminum zinc plating/stainless steel	
Air flow (m <sup>3</sup> /h)	900	1000	1200	500	600	800
Mean wind speed (m/h)	0.3~0.5	0.3~0.5	0.3~0.5	0.3~0.5	0.3~0.5	0.3~0.5
External static pressure (Pa)	190(10mmAq)	190(10mmAq)	190(10mmAq)	190(10mmAq)	190(10mmAq)	190(10mmAq)
Power (W)	115	115	115	173	240	115
Weight (kg)	31.5	37	40.5	21	23.5	27
Noise dB(A) below vertical efficiency	55-63	55-63	55-63	55-63	55-63	55-63
efficiency screen parameter	Size (W * L * Hmm)	915×610×69	1170×570×69	1220×610×69	570×570×69	610×610×69
	The efficiency of	99.99% @ 0.3μm	99.99% @ 0.3μm	99.99% @ 0.3μm	99.99% @ 0.3μm	99.99% @ 0.3μm
	The framework	High quality aluminum	High quality aluminum	High quality aluminum	High quality aluminum	High quality aluminum
	Early loss of pressure	110Pa @ 0.45m/s	110Pa @ 0.45m/s	110Pa @ 0.45m/s	110Pa @ 0.45m/s	110Pa @ 0.45m/s
fan parameter	Power (V/Hz)	220/50	220/50	220/50	220/50	220/50
	In the form of	Aluminum turbo fan	Aluminum turbo fan	Aluminum turbo fan	Aluminum turbo fan	Aluminum turbo fan
	Vibration coefficient (mm/s)	0.2~0.5	0.2~0.5	0.2~0.5	0.2~0.5	0.2~0.5

Note: in addition to the above dimensions, can accept customer non-customized

# Fresh air tank



## ► Flexible configuration

The filter with relative performance can be configured according to the special requirement of fresh air.

## ► Choice and variety

Various flange mouth sizes are available: There are various fresh air volumes of 1000m<sup>3</sup>/h, 2000m<sup>3</sup>/h, 3000m<sup>3</sup>/h, 4000m<sup>3</sup>/h, 5000m<sup>3</sup>/h, etc.

## ► Good sealing

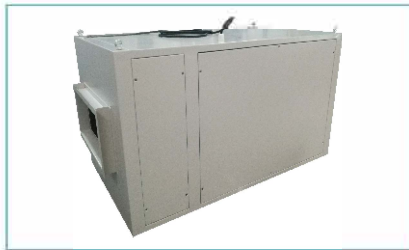
With good sealing performance, connected with air duct, equipped with professional filter, fresh air cabinet for primary filtration treatment of fresh air, Ensure that the air brought into the room is fresh and clean;

## ► High professional level

Flexible and compact structure, low noise, smooth operation, good wind pressure adjustable, long service life and other characteristics;

## ► Wide range of applications

Laboratory, operating room, biopharmaceutical, LED light, circuit board, microelectronics, medical industry, food processing and other new trends Seek a higher working environment; It is widely used in the ventilation system of civil buildings, and also in the building construction Of the fire pressure air supply, air purification of the pressurized air replenishment and other occasions.



## ► Material composition and operating conditions

model	GCC-FA-001	GCC-FA-002	GCC-FA-003	GCC-FA-004	GCC-FA-005
External size (W×L×Hmm)	800×800×1200	800×800×1200	1450×800×1350	1450×800×1500	1450×800×1700
Volume (m <sup>3</sup> after/s)	1000~2000	2000~3000	3000~4000	4000~5000	5000~7000
Power (W)	550	800	1100	2200	2200
plank	A3 cold rolled steel paint/stainlesssteel A3 cold rolled steel paint/stainlesssteel A3 cold rolled steel paint/stainlesssteel A3 cold rolled steel paint/stainlesssteel A3 cold rolled steel paint/stainlesssteel				
Power (V/Hz)	380/50	380/50	380/50	380/50	380/50
Operating noise dB	≤67	≤67	≤67	≤67	≤67
Filtering level	G1+H13	G1+H13	G1+H13	G1+H13	G1+H13

Note: in addition to the above dimensions, can accept customer non - customized

# B2 Biosafety cabinet



## Product introduction

The purpose of the biosafety cabinet is to protect the operator, laboratory environment and experimental materials when the operator is conducting the original culture. Avoid contact with infectious aerosols or spills when bacterial strains or experimental materials are used that are infectious. Biological AnnThe full cabinet is the necessary equipment for microbiology, biomedicine, gene recombination, animal experiment and biological products. It is an occasion where the operator needs to take protective measures, such as medical care, pharmaceutical, scientific research, etc., when conducting bacterial culture. A safe working environment free of bacteria and dust.

## Scope of application

II level B2 type safety cabinet is a safety cabinet with front window operation, the operator can be operated through the front window in the security into contained in the mouth. The operation protects the personnel, products and environment in the operation process.

## The work environment

- (1) Indoor only; Type B2, 100% efflux;
- (2) Ambient temperature: 15°C ~ 35°C;
- (3) Relative humidity: ≤75%;
- (4) Atmospheric pressure range: 75 kPa ~ 106 kPa;
- (5) Power supply: 220V 50Hz;

Technical parameters	model	II	
		BSC-1100 B2-X	BSC-1500 II B2-X
Registration number		National instrument registration Permit 20163542275	National instrument registration Permit 20173544629
The rated voltage		220VAC	
Rated frequency		50Hz	
Overall dimensions		1100×750×2250 mm	1500×760×2250 mm
Operating area size		940×600×660 mm	1350×600×660 mm
Rated power		1300 W	1800 W
Total system exhaust		1050 m <sup>3</sup> /h	1270 m <sup>3</sup> /h
Uv lamp power		30W	40W
Fluorescent lamp power		12W*2 ( LED )	16W*2 ( LED )
And down drafts		0.33 m/s	
Into the air		0.53 m/s	
Filtration efficiency		99.995% (0.3 μm diameter)	
The noise		≤67dB ( A )	



# Negative pressure weighing hood

## ▶ Product introduction



The negative pressure weighing chamber adopts the gas form of vertical one-way flow. The return air should be pre-filtered through the primary effect filter to transfer the airflow. After the pretreatment, the air is then filtered through a medium-to-efficiency filter for the second time. In order to fully protect the effect of the hePA filter. Under the pressure provided by the centrifugal fan, through the hePA filter, make it meet cleanliness requirements. The clean air flow is sent to the bellows, and 90% passes through the uniform air supply screen, forming the vertical uniform air flow. Supply air flow, 10% through the air volume control board, discharge equipment. All airflow is treated by a hePA filter, so there is no residual dust in the air supply and exhaust to avoid secondary pollution. Due to the formation of a stable one-way flow in the working area, in this area dust emitted in the domain will be collected by the primary and mid-efficiency filters along with the unidirectional airflow. Negative pressure The weighing chamber is equipped with 10% exhaust air, thus forming negative pressure relative to the external environment, which ensures the region to a certain extent. The dust will not diffuse to the outdoor, play the role of protecting the external environment, designed to meet the GMP requirements of the pharmaceutical factory.

## ▶ The working principle of

The equipment adopts the gas form of vertical one-way flow. The return air should be pre-filtered through the primary effect filter, and the large dust particles in the airflow should be disposed. After the air is pretreated, it will be filtered through the medium effect. The filter is used for secondary filtering to fully protect the hePA filter. Under the pressure provided by the centrifugal fan, through the high efficiency filter, make it meet the requirements of cleanliness. The clean air is sent to the bellows, and 90% passes through the uniform air supply screen, forming a uniform vertical air supply. 10% through the air volume control board, discharge equipment. All air flows are treated by hePA filter, so there is no residual dust in the air supply and exhaust, avoiding secondary pollution. As a stable one-way flow is formed in the working area, the dust emitted in this area will be collected by the primary and medium efficiency filters along with the influence of the one-way flow. The equipment is equipped with 10% exhaust air, thus forming negative pressure relative to the external environment. To a certain extent, the dust in this area will not spread to the outside, which plays a role in protecting the external environment.

## ▶ Material composition and operating conditions

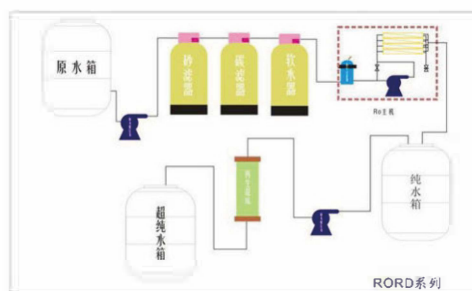
Installation dimensions	Customize according to customer's size
Clean level	A级
The rated air flow	By size
The total power	2KW
Total pressure	500Pa
The average intensity of illumination	500LUX
The wind speed	0.45m/s/%P20%
Control of motor speed	Frequency converter (adjust frequency)
High efficiency filter	Reverse flange liquid tank filter
The whole material	SUS304#/SUS316#
Protection object	Drugs, operators, working conditions

# Industrial pure water machine



## The process flow

Pump - sand filter - carbon filter - water softener precision filters - level 1 RO high pressure pump system - high-pressure pump - secondary RO system



## Equipment type (single stage reverse osmosis)

Single stage reverse osmosis equipment material list

NO	Device name	unit	Quantity	Remark
1	The original water tank	a	1	Customer should bring along their own
2	Booster pump 380 v	Taiwan	1	Hangzhou South Pump
3	Sand filter	Set of	1	
4	Carbon filter	Set of	1	
5	Water softener	Set of	1	
6	Fine filter	Taiwan	1	Filtration accuracy is 5um
7	RO high pressure pump 380V	Taiwan	1	The south pump industry
8	RO host system	Set of	1	Hyde can film
9	Electric control 380V	Taiwan	1	Electronic components zhengtai
10	Connection pipe fittings	batch	1	304 stainless steel
11	Sterile pure tank	a	1	Customer should bring along their own

## T\_0.5t\_1t\_2t ro reverse osmosis equipment overview:

Reverse osmosis equipment is a single-stage reverse osmosis equipment. It takes self-administration tap water as the source water. The conductivity of the first-stage reverse osmosis water is usually less than 10US/cm and can reach below 5us/cm in the initial operation. Reverse osmosisThe device, which is mainly used to separate the ionic range in the solution, does not require heating and does not have a phase transition process, so it consumes less energy than traditional methods. The reverse osmosis device is small in size, simple in operation and wide in application. withReverse osmosis unit treats industrial water, does not consume a large amount of acid and alkali, does not have secondary pollution, its operating cost is relatively low, and the yield of water can be customized according to different users.

## 0.25T\_0.5t\_1t\_2T reverse osmosis equipment \_RO principle of reverse osmosis equipment

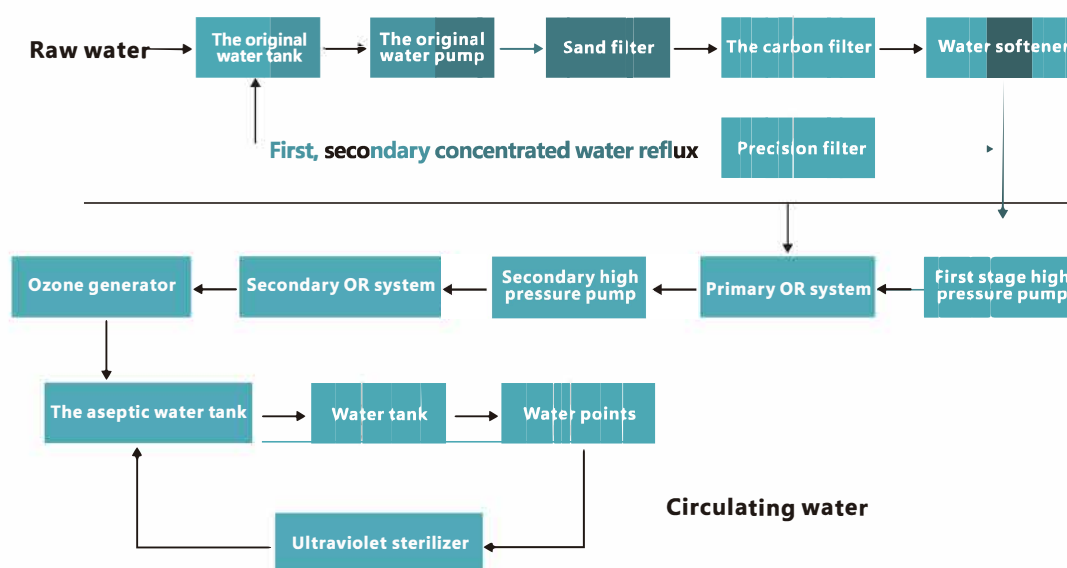
Reverse osmosis technology (Ro) is a membrane separation and filtration technology that USES the permeability principle of reverse osmosis membrane and is powered by pressure difference. It is now an advanced and effective membrane separation technology, and it has been widely used in the purification and concentration of various liquids. The reverse osmosis membrane is usually made of polyamide composite membrane with a filter aperture of only 0.0001 micron, which can effectively remove dissolved salts, organic compounds, colloid, microorganisms and other impurities in water, and has a high desalination rate and a high resistance to chemical pollution. The equipment composed of reverse osmosis membrane elements is reverse osmosis equipment, reverse osmosis equipment can be divided into single-stage reverse osmosis, first-stage reverse osmosis, second-stage reverse osmosis, two-stage RO reverse osmosis. The system has the characteristics of good water quality, low energy consumption, no pollution, simple process and simple operation.

# Reverse osmosis water treatment equipment

1. Inlet water quality: The report of raw water quality is not provided and is designed according to the municipal tap water conductivity  $\leq 350\mu\text{S/cm}$  water temperature  $\leq 25^\circ\text{C}$ .

2. Effluent water quality: RO yield: 0.53/h, based on pure water flowmeter of RO a- in engine. The first stage reverse osmosis water yield  $\leq 10\text{ S/cm}$ , the second stage reverse osmosis water yield  $\leq 5\text{ S/cm}$  countries pureWater outlet standard. The overall operation of the equipment is normal.

Reverse osmosis system process flow chart



## Single stage reverse osmosis equipment

No	Name	Remark	model
1	The original water tank	Customer should bring along their own	0.25T/H,
2	Booster pump 380 v	Hangzhou South Pump	
3	Sand filter		0.5T/H,
4	Carbon filter	304 stainless steel filter tank automatic control valve, including center pipe cloth Waterer, packing	1.0T/H,
5	Water softener		1.5T/H,
6	Fine filter	Filtration accuracy is 5um	2.0T/H,
7	RO high pressure pump 380V	The south pump industry	3.0T/H,
8	RO host system	Huitong membrane	5.0T/H,
9	Electric control 380V	Electronic components zhengtai	10.0T/H ;
10	Connection pipe fittings	304 stainless steel	Material: 304 stainless steel
11	Sterile pure tank	Customer should bring along their own	

## Double stage reverse osmosis equipment

No	Name	Remark	model
1	The original water tank	Customer should bring along their own	0.25T/H,
2	Booster pump 380 v	Hangzhou South Pump	
3	Sand filter		0.5T/H,
4	Carbon filter	304 stainless steel filter tank manual control valve, including center pipe cloth Waterer, packing	1.0T/H,
5	Water softener		1.5T/H,
6	Fine filter		2.0T/H,
7	RO high pressure pump 380V	Filtration accuracy is 5um	3.0T/H,
8	RO host system	The south pump industry	5.0T/H,
9	RO high pressure pump 380V	The south pump industry	10.0T/H ;
10	RO host system	Huitong membrane	Additive EDI
11	Electric control	Electronic components zhengtai	
12	Connection pipe fittings	304 stainless steel	
13	Sterile pure tank	Customer should bring along their own	

## Air shower custom series



Stainless steel corner shower



Shower room



Fast shutter door cargo shower



Translation automatic door wind forest room



Sole cleaning shower room



People shower



Translation automatic door shower



Fully automatic translation door shower

# Packing table series

## ▶ Instrument examination magnifying glass



It is used for instrument inspection, and it is used with three-layer instrument packing table

Features: three-section mechanical arm, strong and durable; Free extension; Check lamp with ring; >, 5 times bigger

### Model No .

FDJ-KL325

### Voltage

240v~200v/50Hz

### Power

22W

## ▶ Dressing packing table (modular)



It is suitable for dressing room in clean area. The dressing packing table is divided into single and double sides. It can be used by two workers on one side and four workers on both sides. Use as personnel. The packing table is designed to work ergonomically. Personnel may sit or stand at work. Table with luminous panel to check dothQuality, specially designed for application in dressing inspection and packaging, dressing release. Inspect on luminous panel or table.

### Model

### Exterior Size L×W×H(MM)

MFLT-KL2078	2000× 700× 850
MFLT-KL2128	2000×1200×850
GFLT-KL2078	2000× 700× 850
GFLT-KL2128	2000×1200×850

### Remarks

柔光木制面板，单侧使用  
柔光木制面板，双侧使用  
不锈钢面板，单侧使用  
不锈钢面板，双侧使用

Note: in addition to the above dimensions, can accept customer non - customized



## Packing table series

### ► Three-layer instrument packing table (combined type)

It can be used in supply room, operating room, ward and out-patient clinic. Classification, inspection, packaging and use. The three-layer instrument packing table is divided into single side and double side, and one side is available. It is used by two staff members at the same time and can be used by four staff members on both sides. The packaging machine. The design is ergonomic and allows staff to sit or stand. Packing table bracket. It is composed of high strength and high-quality 304HL frosted pipe, which is convenient for users to disassemble and assemble at will. The panel is made of environmentally friendly wood material with soft gloss plastic veneer, lighting and three sets. Multi-purpose socket.



Model	Exterior Size L×W×H(MM)	Remarks
MQXT-KL2078	2000× 700× 800+550	Soft light wood panel for one side use
MQXT-KL2128	2000×1200×850+550	Soft glazed wooden panel for bilateral use
GQXT-KL2078	2000× 700× 850+550	Stainless steel panel for one side use
GQXT-KL2128	2000×1200×850+550	Stainless steel panel for both sides

Note: in addition to the above dimensions, can accept customer non - customized

# Stainless steel cart series



Sterilizing basket trolley

## Technical specifications

- ① Overall size: 850 (L)× 475(W)×910(H)mm;
- ② All stainless steel;
- ③ lightweight structure, easy to push and pull, easy to transport the basket;
- ④ Used for empty baskets and the transport of the whole basket.



Double deck car for storage tank

It is suitable for the instrument transfer and transportation between different departments, and can also be used as the activity console.

◎ The use of high quality stainless steel durable, easy to clean

The style is novel and beautiful

◎ Exterior size : 900\*550\*850

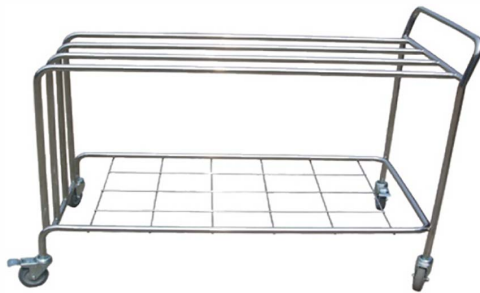


## Technical specifications

- ① Overall size : 1375(L)×460(W)
- ② All stainless steel ;
- ③ Can be equipped with canvas bag cover, easy to basket transport ;
- ④ Can accommodate 5 standard baskets  
(585 (L) ×395(W)×195(H)mm)  
Unique shelf structure design, the basket can be drawn out 1/3 without slipping;
- ⑤ For the transportation, storage and distribution of sterile articles.

Note: in addition to the above dimensions, can accept customer non - customized

# Stainless steel cart series



Cloth car

## Technical specifications

- ① External dimensions: 1125 (L) × 385 (W) × 940 (H) mm;
- ② All stainless steel;
- ③ Simple structure, beautiful shape;
- ④ Can store different specifications of wrapping cloth or wrapping paper, different specifications for choice;
- ⑤ Easy to take, flexible movement;
- ⑥ For drying and storage of wrapping cloth and medical wrapping paper.

## Product introduction

KI861 stainless-steel clothes truck is suitable for hospitals and medical colleges. The products are made of high quality stainless steel. Anti-rust, easy to disinfect. Precision production, reasonable structure, strong and durable.

## Functional features

With diameter 80 silent wheel, cage type

## specifications

800 × 600 × 1000 mm



Dirt car



带栏杆二层平台车

## Product introduction

KI749 stainless steel treatment vehicle is suitable for hospitals and medical colleges. The products are made of high quality stainless steel. Anti-rust, easy to disinfect. Precision production, reasonable structure, strong and durable.

## Functional features

With diameter 80 mute wheel

## specifications

750 × 450 × 900 mm

Note: in addition to the above dimensions, can accept customer non-customized

# Send off

## Seal down delivery vehicle

### Technical specifications

- ① All stainless steel;
- ② Single side folding double door, which can be folded and rotated 270 degrees to the side;
- ③ spring handle fixed door, suitable for narrow space use;
- ④ large diameter inflatable wheel, push and pull energy saving, smooth.
- ⑤ Built-in shelf, adjustable height, can transport different sizes of items;
- ⑥ For closed down delivery of sterile items, which can effectively avoid contamination of sterile items in the process of down delivery.



specifications	Overall dimensions	The car volume
big	1266(L)×610(W)×1240(H)mm	1156(L)×600(W)×1000(H)mm
In the	1190(L)×610(W)×1090(H)mm	1080(L)×600(W)×870(H)mm
small	1000(L)×610(W)×1000(H)mm	890(L)×600(W)×870(H)mm

## Dirt gets in the car



Product model : KLWC-G02Outline

size : 1000 (L) x 620(W) X 900(H)mm

Carriage volume : 890 (L) X 570(W) X 870(H)mm

- ① quality 304 stainless steel material ;
- ② single face open door, side push hand ;
- ③ Large diameter silent wheel, push-pull force saving, smooth ;
- ④ Used for sealing transportation of contaminated articles in all departments.

## Flatbed delivery truck

Product model: KLDC-G01Technical

Description:

- ① quality 304 stainless steel material;
- ② External size: 1010(L) x 500(W) x 740(H)mm
- ③ lightweight structure, easy to push and pull, facilitate the transport of various items.



Note: in addition to the above dimensions, can accept customer non - customized



# Stainless steel cart series

## ◎ Double door pass window



## ◎ Conjoined transfer window



## ◎ Standard transfer window



### ► Introduction to Transfer window

As an auxiliary equipment in the central supply room, the transfer window is mainly used in clean area, clean area and non-clean area. Transfer of small items from clean area to clean area to minimize the number of cleanroom doors. Reduce pollution in clean areas. Transfer window: Transfer window can be divided into mechanical interlock transfer window and electronic interlock transfer window, standard transfer window, Air shower transfer window, laboratory equipment transfer window, biosafety transfer window, transfer window can be made non-standard delivery window according to customer requirements.

### ► Transfer window features

1. Short distance transfer window working surface adopts stainless steel plate, which is smooth, clean and wear-resistant.
2. The working table of the long distance transmission window adopts the non-power roller, which makes the delivery light and convenient.
3. The doors on both sides are equipped with mechanical interlock or electronic interlock device to ensure that the doors on both sides are not open at the same time.
4. Various non-standard sizes and floor-to-ceiling transfer windows can be customized according to customer needs.

### ► Optional accessories

1. All stainless steel transfer window
2. Ultraviolet sterilization lamp
3. Buzzer
4. walkie-talkie
5. Electronic interlock

The project name	KL-500	KL-600	KL-750	note
The product name	Standard transfer window	Standard transfer window	Standard transfer window	Transfer window
Working Area Size (mm)	W500×D500×H500	W600×D600×H600	W750×D750×H750	
External dimension (mm)	W685×D500×H600	W785×D600×H700	W935×D750×H850	
The body material	Cold rolled steel paint or stainless steel			According to the
The tank material	Cold rolled steel paint or stainless steel			The scene to
Transmission window classification	Can be divided into standard transfer window and floor-to-ceiling transfer window (without access floor)			Please order
The power supply	220V 50HZ			
Optional accessories: 1, electronic interlock2, mechanical interlock3, ULTRAVIOLET sterilization lamp				

Note: in addition to the above dimensions, can accept customer non-standard customized

## Stainless steel cart series



### ◎ Double-pass interlock electric transfer window

Model	Exterior Size L×W×H(MM)	Opening Size W×H(MM)	Voltage	功率 Power
SDC-KL001	800× 700× 1240	620×600×580	240v~200v/50Hz	25w
SDC-KL002	900× 700× 1240	720×600×580	240v~200v/50Hz	25w
SDC-KL003	900× 800× 1520	720×700×720	240v~200v/50Hz	25w
SDC-KL004	1000×800×1520	820×700×720	240v~200v/50Hz	25w
SDC-KL005	1100×800×1520	920×700×720	240v~200v/50Hz	25w

### ◎ Power window base

Model No	Exterior Size L×W×H(MM)	W×H(MM)
SDC-KL101	800× 700× 800	810× 2050
SDC-KL102	900× 700× 800	910× 2050
SDC-KL103	900× 800× 800	910× 2330
SDC-KL104	1000×800×800	1010×2330
SDC-KL105	1100×800×800	1110×2330

Note: in addition to the above dimensions, can accept customer non - customized



## ▶ appearance

- ✘ The shell and cavity are made of high-quality SUS304 stainless steel, indicating that they are treated with silk thread matting. Easy to clean and durable.
- ✘ The window and door glass adopts high transparency plexiglass, which is safe and not easy to be broken.
- ✘ The overall appearance is full of the characteristics of The Times, beautiful and generous.

## ▶ technology

- ✘ The product has been tested for 20,000 times without failure, and dozens of large enterprises at home and abroad. And many years of use in medical institutions, fully verify the safety and durability of Kunling transmission window.
- ✘ Has won five patent technologies, reflecting the spirit of innovation everywhere. IC chip processor specially developed and designed by Kunling Company has advanced functions and long-term stability.
- ✘ According to the inspection by the authoritative organization, the noise value of the product transmission part is lower than 60dB during operation. The environmental impact was slight.
- ✘ The movable window and door are sealed on the four sides, effectively separating the bacteria and dust pollution in the outdoor air.
- ✘ As long as the installation position is reserved accurately, the small tools attached to the product can be installed and used in a short time.



## © Electric transmission window

Model No	Exterior Size L×W×H(MM)	Opening Size W×H(MM)	Voltage	Power
DCC-KL001	800× 80× 1240	620×580	240v~200v/50Hz	15w
DCC-KL002	900× 80× 1240	720×580	240v~200v/50Hz	15w
DCC-KL003	900× 80× 1520	720×720	240v~200v/50Hz	15w
DCC-KL004	1000×80×1520	820×720	240v~200v/50Hz	15w
DCC-KL005	1100×80×1520	920×720	240v~200v/50Hz	15w

Note: in addition to the above dimensions, can accept customer non - customized

## Water tank series



### ◎ Automatic wash trough

It is suitable for washing hands in buffer room, pre-entrance room, operating room and corridor

- ✘ The use of high quality stainless steel durable, easy to clean
- ✘ Full induction operation
- ✘ Stylish, beautiful and generous

model	Overall dimension L×W×H(MM)	note
KLXST-01	1600×650×1150	Two automatic induction faucets, hand sanitizer bottles
KLXST-02	2300×650×1150	Three automatic faucets, hand sanitizer bottle
KLXST-001	1600×650×1900	Two automatic induction faucets, automatic hand sanitizer bottle, with mirror lamp
KLXST-002	2300×650×1900	Three automatic sensing taps, automatic hand sanitizer bottle, with mirror lamp



### ◎ Small automatic sink

Suitable for washing hands in buffer room and in advance.

- ✘ The use of high quality stainless steel durable, easy to clean
- ✘ Full induction operation
- ✘ Stylish, beautiful and generous

Model	Exterior Size L×W×H(MM)	Hand sink size L×W×H(MM)	Remarks
KLDXST-151	450×450×800+150	350×300×150	One-digit automatic faucet
KLDXST-152	800×450×800+150	350×300×150	Two-digit automatic faucet



### ◎ Long tank cleaning tank

Cold, hot, pure water interface, large flow and can be freely adjusted; Single tank, with a drying platform, with a door, the tank is made of stainless steel;

- ✘ External dimension : 1200 (L) x 650(W) X 950(H)mm
- ✘ Table height: 820mm;
- ✘ Water tank volume: 1000 (L) x 450(W) X 300(H)mm
- ✘ Used for manual cleaning of sewage.

Note: in addition to the above dimensions, can accept customer non - customized

## Water tank series



Double tank for dirt cleaning



Long tank cleaning tank

### ► Technical specifications

- ① Cold, hot, pure water interface, large flow and can be freely adjusted;
- ② Double slot, all stainless steel, with door;
- ③ Overall dimension : 1200 (L) × 600(W) × 950(H)mm;
- ④ Table height : 820mm
- ⑤ Flume volume : 1000 (L) × 360(W) × 300(H)mm;
- ⑥ For manual cleaning of contaminated items.

### ► Technical specifications

- ① Cold, hot, pure water interface, large flow and can be freely adjusted;
- ② Single slot, all stainless steel, with asphalt platform, with a door;
- ③ Outline size : 800 (L) × 650(W) × 950(H)mm;
- ④ Table height : 820mm;
- ⑤ Flume volume : 600 (L) × 450(W) × 300(H)mm;
- ⑥ For the manual cleaning of contaminants.



Double tank for dirt cleaning



Single tank dirt cleaning tank

Note: in addition to the above dimensions, can accept customer non - customized

# Stainless steel cart series

## ◎ All steel medicine cabinet

### ▶ Material usage standard

#### 1-1. Main cabinet (steel and wood frame combination)

Material selection criteria

- ✗ The main body of the cabinet is made of 1.0mm high-quality cold-rolled steel plate, and the special load-bearing parts are made of 1.2-1.5mm high-quality cold-rolled plate. Optional stainless steel material;
- ✗ Top, bottom and side panels are made of 18mm high-quality wood environment-friendly composite board; The surrounding area adopts PVC "F" slot sealing material specially used for laboratory plate sealing and main cabinet frame inlaying.
- ✗ Riveting nuts and metal embedded two art, standard parts connection combination; ✗ Door panels are inlaid with anticorrosive materials;

#### 1-2, layer board

- ✗ Combination structure of frame and laminate is adopted. Layer board use 3 mm thick phenolic resin board, and designed  $\Phi 30$  mm,  $\Phi 50$  mm and  $\Phi 70$  mm,  $\Phi 100$  mm specifications of circular hole, etc.
- ✗ The laminate frame is made of 15mm special aluminum profile, and 3mm thick phenolic resin board is embedded in the frame.
- ✗ Door hinge: The hinge is made of special hinge of zinc alloy for embedded cabinet. The surface layer is made of leachable plastic technology. The opening Angle is 250 degrees.
- ✗ Adjustable combination foot: anti-slip, shock absorption, acid and alkali resistance, corrosion resistance, strong load bearing and other characteristics.



Note: in addition to the above dimensions, can accept customer non - customized

# Stainless steel cart series

## ◎ Five layers network storage rack (modular)

Suitable for storage of goods in storeroom and various sections

- ✘ Combined structure can effectively save transportation cost
- ✘ Users can set the spacing of laminates or increase or decrease the number of laminates according to actual needs
- ✘ Combined structure can effectively save transportation cost



model	L×W×H(MM)
CWJ-KL501	1000×450×1800
CWJ-KL502	1200×450×1800
CWJ-KL503	1500×450×1800

## ◎ Dry working table (modular)



Suitable for classification examination of dressings, surgical instruments and dry articles in clean areas

Product Features:

- ✘ High quality stainless steel support is adopted to ensure its durability.
- ✘ Combined structure, easy to install.

Model	Exterior Size L×W×H(MM)	Remarks
GMT-KL121	2000×700×850	Soft light wood panel for one side use
GMT-KL241	2000×1200×850	Soft glazed wooden panel for bilateral use
GBT-KL121	2000×700×850	Stainless steel panel for one side use
GBT-KL241	2000×1200×850	Stainless steel panel for both sides

## ◎ Sewage sorting table (modular type)



It is applicable to the classified inspection of the contaminated articles in the polluted area

- ✘ With high quality stainless steel support, it is strong and durable
- ✘ Stainless steel panel with drip proof edge, effectively prevent the leakage of contaminated liquid
- ✘ Combined structure can effectively save transportation cost
- ✘ Easy and quick installation

Model	Exterior Size L×W×H(MM)
WWT-KL1578	1500× 700× 800
WWT-KL1878	1800× 700× 800
WWT-KL2118	2000×1100×800

Note: in addition to the above dimensions, can accept customer non - customized



## Storage rack series



Note: in addition to the above dimensions, can accept customer non - customized



# Stainless steel cart series

## Technical specifications



- ① External dimension: 585 (L)× 395(W)×195(H)mm
- ② All stainless steel;
- ③ Convenient storage and transportation of goods;
- ④ can effectively avoid hand contact with sterile items caused by pollution;
- ⑤ Used for sterilization of clean articles, storage and transportation of sterile articles;
- ⑥ Multiple standard baskets can be stacked for storage, saving storage space;
- ⑦ Can effectively avoid the contamination caused by hand contact with sterile articles;
- ⑧ These are used as containers for storage, transportation and cleaning



## STERILIZED basket storage rack (modular)

It is suitable for the storage of sterile goods basket in aseptic area and warehouse

- ✗ The use of high quality stainless steel durable, easy to clean
- ✗ Combined structure can effectively save transportation cost



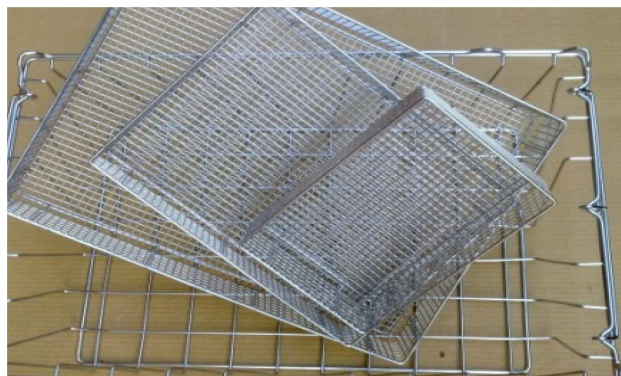
model	Size L×W×H(MM)	note
LKJ-KL1201	1230×500×1625	One side, two cases, 12 baskets in stock
LKJ-KL1802	1820×500×1625	One side, two cases, 18 baskets in stock
LKJ-KL2403	2410×500×1625	One side, two cases, 24 baskets in stock
LKJ-KL2404	1230×850×1625	Two sides, two cases, 24 baskets in stock
LKJ-KL3605	1820×850×1625	Bilateral, two cases, 36 baskets in stock
LKJ-KL4806	2410×850×1625	Bilateral, two cases, 48 baskets in stock

# Cleaning basket series

## ◎ Instrument cleaning tray

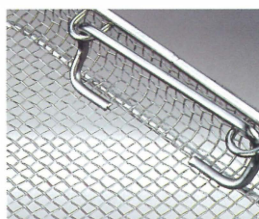
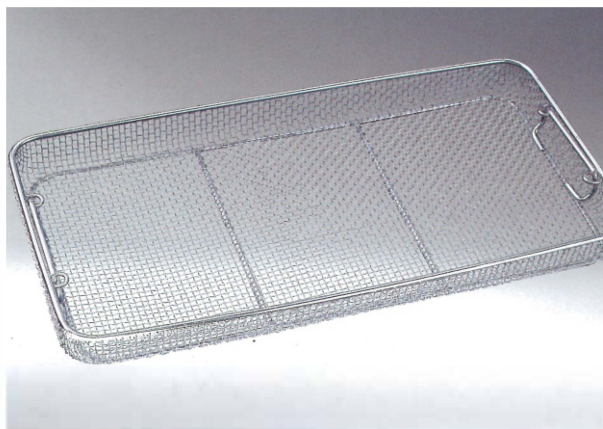
Suitable for CSSD center supply room, operating room, laboratory and other departments of pollution cleaning and storage of surgical instruments

- ✘ The use of high quality stainless steel durable, easy to clean
- ✘ A variety of models and sizes cater to all types of cavity size



## ◎ DIN instrument cleaning tray

Suitable for cleaning and storage of surgical instruments in contaminated areas



model	Overall dimension L×W×H(MM)
QXP-KL121	240×250×50
QXP-KL122	480×250×50

model	Overall dimension L×W×H(MM)
QXL-KL121	250×170×70
QXL-KL122	340×250×70
QXL-KL123	450×340×70

Medical sterilization basket:

Medical sterilization basket, hospital sterilization basket, medical cleaning basket:

Scope of Use:

1. Applicable to medical and experimental sterilizers.
2. It can be used for disinfection and sterilization of articles, ultrasonic cleaning, storage and use, etc., especially for operating devices. The instruments and diagnostic instruments shall be cleaned, disinfected and sterilized together in the tray of instruments.
3. Applicable to medical units, hospital departments, such as operating room, supply room, disinfection room, dental clinic, All the medical institutions and departments related to cleaning, disinfection and sterilization treatment, such as wards.

Product Features:

1. Made of stainless steel, surface treated with electrolytic polishing, durable and bright as mirror. No rust, no deformation.
2. The product is safe to use without protruding welding spot, welding wound, rough edge or falling off.
3. The grid design is conducive to the penetration of water or steam to ensure the cleaning and sterilization effect.
4. Multiple baskets can be stacked.

Product specifications:

Can be customized according to various brands and models of cleaning, disinfection, sterilization equipment.

Note: in addition to the above dimensions, can accept customer non - customized

## Locker series



Store content ark



Platform lockers



Stainless steel desk



Dressing cabinet

### © Dressing cabinet

- ✗ All stainless steel;
- ✗ External dimension: 1200 (L) × 405 (W) × 1750 (H) mm
- ✗ Four-door, four-floor bulkhead;
- ✗ Outside door, glass window;
- ✗ For storage of dressings or other articles;
- ✗ With large storage capacity, it can also be used as a warehouse cabinet.



Note: in addition to the above dimensions, can accept customer non - customized



# Instrument cabinet series



## ► Technical specifications

- ① All stainless steel;
- ② Overall size: 960 (L) × 405 (W) × 1750 (H) mm
- ③ Built-in multi-layer shelf interval adjustable, convenient to store different specifications of instruments;
- ④ The door with glass window is beautiful and neat.

## ► Product introduction

Qxg-kl941 stainless steel instrument cabinet is suitable for hospitals and medical colleges. The products are made of high quality stainless steel. Anti-rust, easy to disinfect. Precision production, reasonable structure, strong and durable.

## ► Functional features

Qxg-kl941 stainless steel instrument cabinet is suitable for hospitals and medical colleges. The products are made of high quality stainless steel. Anti-rust, easy to disinfect. Precision production, reasonable structure, strong and durable.

## ► specifications

900 × 400 × 1800 mm (customized according to customer requirements)



## ► Product introduction

Ypg-kl18 stainless steel medicine cabinet is suitable for hospitals and medical colleges. The products are made of high quality stainless steel. Anti-rust, easy to disinfect. Precision production, reasonable structure, strong and durable.

## ► Functional features

Upper stainless steel baffle frame design, with glass sliding door, equipment can be placed in different categories. The lower part is designed with lock drawer and open door storage cabinet, which is safe and convenient to use. Multi-layer design, each layer is separated by stainless steel plate, partition height is adjustable, apparatus can be placed in different categories. Overall beautiful and generous, uniform and firm weld, no burning, cold crack, For defects such as leakage welding, polish and level off the welding parts.

## ► specifications

900 × 400 × 1800 mm (customized according to customer requirements)



Note: in addition to the above dimensions, can accept customer non-customized

# Nylon mesh primary filter



## ▶ The performance characteristics of

Large air volume, low resistance, reusable, long service life, highly cost effective.

## ▶ Application field

1. Primary filtration of central air conditioning and household air conditioning, ventilation filtration of special acid and alkali resistance;
2. Clean room returning air filtration.
3. Nylon mesh filter is mainly used in air conditioning units, equipment fans, motor inlet or front of the ventilation system. The end filters for some large dust particles as well as mosquitoes.

## ▶ Application field

1. The inner frame USES galvanized iron wire as the support frame to ensure the strength of the filter;
2. The surface of the support frame is treated with black spray paint to prevent the wire frame from growing after long-term use and rust causes secondary pollution of air conditioning system;
3. The support frame is double-sided wrapped with nylon net, which can be cleaned and reused.

## ▶ Material composition and operating conditions

The external material	Aluminum profile/aluminum plate folding frame/galvanized frame/stainless steel frame
Filter's raw material	Nylon net
Supporting frame material	Galvanized iron wire
Maximum operating temperature	80°C
Maximum operating humidity	100%

## ▶ Material composition and operating conditions

size(H * W * D) (mm)	Air velocity(m after/h)	Filter area (m)	Initial resistance (Pa)
592*592*10	3200	0.7	< 20
592*287*10	1600	0.34	
592*490*10	2600	0.58	
592*592*21	3200	0.7	
592*287*21	1600	0.34	
592*490*21	2600	0.58	

Note: the production can be customized

# Primary bag filter



## ▶ The performance characteristics of

1. Large filtration area and high dust capacity;
2. Large air volume, low resistance and long service life;
3. Suitable for wet, high airflow and dust load environment

## ▶ Application field

1. Large filtration area and high dust capacity;
2. Large1. Ventilation and air conditioning systems for large civil buildings such as office buildings, conference rooms, hospitals, gymnasiums and airports, and industrial plantsCentral ventilation system:2. Primary filtration of centralized ventilation and air conditioning system in clean room.e air volume, low resistance and long service life;
3. Suitable for wet, high airflow and dust load environment

## ▶ Application field

1. Primary effect bag filter mainly blocks dust particles above 2 m, using polypropylene, synthetic fiber and spunbonded clothIt is assembled with vario-us metal frames.
2. The bag filter USES a strong, leakproof bag design to capture the escape of dust, sealing the bag on three sides, and air flowThe channel is sewn later-ally inside the bag, and there is a thermoplastic sealant for bonding and hot-melt pressing to ensure the entire airflowThe uniformity of;
3. Filtration efficiency level: G3,G4 (EN779).

## ▶ Material composition and operating conditions

The outer frame is made of aluminum	Aluminum profile/aluminum plate folding frame/galvanized frame/stainless steel frame
Liao material	Synthetic fiber
Supporting frame material	Galvanized iron wire
Filter bag type	Ultrasonic bag/self-sewing bag
Filtration efficiency	G3:85% @ 2.0 mu m, G4:90% @ 2.0 microns
Maximum operating temperature	80°C
Use maximum humidity	100%

## ▶ Material composition and operating conditions

size(H * W * D) (mm)	Numberofbags	Airvolume(m/h)	Filterarea (m)	Dustcapacity (g)	Initialresistance (Pa)	Finalresistance (Pa)	Filtrationefficiency
287*592*381	3	1400	1.58	≈250	<40	100-200	G3
				≈290	<45	150-200	G4
490*592*381	5	2400	2.65	≈430	<40	100-200	G3
				≈480	<45	150-200	G4
592*592*381	6	2850	3.18	≈510	<40	100-200	G3
				≈580	<45	150-200	G4
592*592*381	8	3700	4.09	≈650	<40	100-200	G3
				≈750	<45	150-200	G4
287*592*500	3	1850	2.08	≈330	<40	100-200	G3
				≈380	<45	150-250	G4
490*592*500	5	3100	3.48	≈560	<40	100-200	G3
				≈630	<45	150-250	G4

Note: in addition to the above dimensions, can accept customer non - customized



# Shoe cabinet, wardrobe series



## ◎ Nine door shoe ark

### ▶ Product model

XG-KL938

### ▶ Technical specifications

- ① Made of 304 high-quality stainless steel;
- ② Overall size: 960 (L)× 370(W)×805(H)mm
- ③ Cabinet volume: 300 (L)× 350(W)×220(H)mm
- ④ Simple and beautiful structure, easy to put;
- ⑤ Large capacity, nine cabinets;
- ⑥ For changing shoes and storing shoes for replacement.



## ◎ locker

### ▶ Product model

GYG-KL951

### ▶ Technical specifications

- ① quality 304 stainless steel material;
- ② Overall size: 960 (L)× 500(W)×1750(H)mm;
- ③ Can be used by three people, under the shoe cabinet;
- ④ Simple and beautiful structure, easy to put;

Note: in addition to the above dimensions, can accept customer non - customized

# Primary box filter



## ► The performance characteristics of

1. Low resistance, large air volume and long service life;
2. Large filtration area and high dust capacity;
3. The structure is firm and can be used normally under the condition of super high air volume.

## ► Application field

1. Primary filtration of industrial and civil ventilation systems;
2. Pre-filtration of centralized ventilation and air conditioning system in clean room.

## ► Design features

1. The box filter is made of synthetic fiber and non-woven fabric filter materials;
2. The filter element can be replaced to reduce the use cost;
3. The high-strength frame is equipped with support design to increase the solid strength and durability of the filter screen;
4. "Flanged" and "flangeless" can be selected for production;
5. Between the box folding filter and the fixed frame, sealing tape can be installed to prevent air leakage;
6. Filtration efficiency level: G1, G2, G3, G4 (EN779).

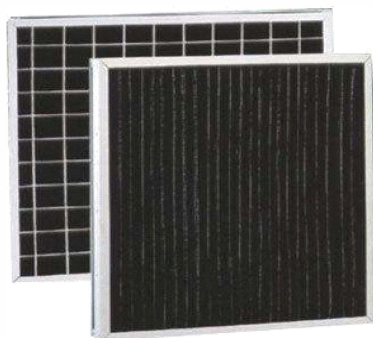
## ► Material composition and operating conditions

The casing outside the material	Aluminum profile/aluminum plate folding frame/galvanized frame/stainless steel frame
Liao material	Synthetic fiber
Supporting frame material	Galvanized iron wire
Filtration efficiency	G1:40%@2.0μm, G2:65%@2.0μm G3:85%@2.0μm, G4:90%@2.0μm
Maximum operating temperature	80°C
Use maximum humidity	100%

size(H * W * D) (mm)	Number of bags	Air volume(m³/h)	Filter area (m²)	Dust capacity(g)	Initial resistance(Pa)	Final resistance (Pa)	Filtration efficiency
287*592*381	3	1400	1.58	≈250	<40	100-200	G3
				≈290	<45	150-200	G4
490*592*381	5	2400	2.65	≈430	<40	100-200	G3
				≈480	<45	150-200	G4
592*592*381	6	2850	3.18	≈510	<40	100-200	G3
				≈580	<45	150-200	G4
592*592*381	8	3700	4.09	≈650	<40	100-200	G3
				≈750	<45	150-200	G4
287*592*500	3	1850	2.08	≈330	<40	100-200	G3
				≈380	<45	150-250	G4
490*592*500	5	3100	3.48	≈560	<40	100-200	G3
				≈630	<45	150-250	G4

Note: in addition to the above dimensions, can accept customer non - customized

# Folding activated carbon filter



## ▶ The performance characteristics of

1. Light weight and strong ventilation;
2. Large specific surface area, strong adsorption performance, low concentration of organic pollutants and odor has a strong removal effect.

## ▶ Application field

Treatment of peculiar smell and polluted air in air-conditioning and ventilation system, adsorption and removal of harmful gases (such as benzene, formaldehyde, ammonia, etc.), Solvent recovery.

## ▶ Application field

1. Welded wire mesh adopts surface anti-rust treatment, which can fix the linear folding structure well;
2. The galvanized iron mesh is fitted on the air outlet surface of the filter material, which can protect the filter material from being blown apart, prevent the filter material from deformation due to excessive wind pressure, and ensure that all the surface of the filter material is fully utilized;
3. Using artificial fiber as the base material, adding coconut shell activated carbon powder to make activated carbon fiber.

## ▶ Material composition and operating conditions

The casing outside the material	Aluminum profile/aluminum plate folding frame/galvanized frame/stainless steel frame
Liao material	Fiber activated carbon
Retainer material	Galvanized wire mesh/aluminum wire mesh/stainless steel wire mesh
Odor removal rate	≥70%
Maximum operating temperature	80°C
Use maximum humidity	100%

## ▶ Material composition and operating conditions

size(H*W*D) (mm)	Rated air rate (m/h)	Filter area (m)	Initial resistance (Pa)	Odor removal rate
592*592*21	1150	0.93	< 40	≥70%
490*592*21	1000	0.77		
287*592*21	600	0.47		
592*592*46	1250	0.97		
490*592*46	1100	0.86		
287*592*46	650	0.52		
592*592*50	1350	1.06		
490*592*50	1150	0.93		
287*592*50	700	0.56		

Note: in addition to the above dimensions, can accept customer non - customized

# Folding primary filter



## ▶ The performance characteristics of

1. Large filtration area and long service life;
2. High air volume, low resistance and high dust tolerance.

## ▶ Application field

Primary filtration in air-conditioning system, pre-filtration in multistage filtration system, air filtration in general acid base organic solvent.

## ▶ Application field

1. Welded wire mesh adopts surface anti-rust treatment, which can fix the linear folding structure well;
2. Galvanized iron mesh is glued on the air outlet surface of the filter material, which can protect the filter material from being blown apart and prevent the filter material from being caused by excessive wind pressure Deformation to ensure that all filter surfaces are fully utilized.
3. The gradual layer structure provides the maximum filtration area for the airflow. The filtration area of the folded filter screen is that of the general plane filter screen 5 times;
4. It can be used in ordinary or moisture-proof paper frame. After use, the paper frame filter can be incinerated without pollution and meet the requirements of environmental protection;
5. Filtration efficiency level: G1, G2, G3, (G4EN779)

## ▶ Material composition and operating conditions

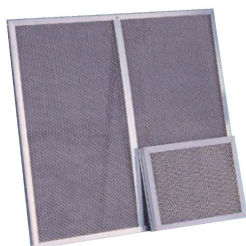
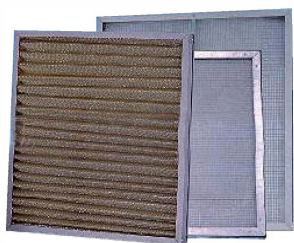
The outer frame is made of aluminum	Aluminum profile/aluminum plate folding frame/galvanized frame/stainless steel frame
Liao material	Synthetic fiber
Supporting frame material	Painted galvanized iron wire
Filter bag type	G1:40% @ 2.0μm, G2:65% @ 2.0μm
Filtration efficiency	G3:85% @ 2.0μm, G4:90% @ 2.0μm
Maximum operating temperature	80°C
Use maximum humidity	100%

### Material composition and operating conditions

size(H * W * D) (mm)	Rated air rate(m/h)	Filter area (m)	Dust capacity (g)	Initial resistance(Pa)	Final resistance(Pa)	Filtration efficiency
592*592*46	2600	0.97	≈110	≤25	100-200	G1
			≈130	≤30	100-200	G2
			≈160	≤40	100-200	G3
			≈200	≤45	150-250	G4
287*592*46	1600	0.44	≈90	≤25	100-200	G1
			≈110	≤30	100-200	G2
			≈130	≤40	100-200	G3
			≈160	≤45	150-250	G4

Note: in addition to the above dimensions, can accept customer non - customized

# High temperature resistant primary filter



## ▶ The performance characteristics of

1. Good chemical resistance, high heat resistance and low moisture absorption of the filter;
2. High dust capacity, long service life, and non-combustible.

## ▶ Application field

1. General initial filtration, air filtration of hot air type high temperature oven;
2. Air filtration in high temperature oven of coating plant.

## ▶ Application field

1. Design characteristics of flat plate high-temperature filter
  - ① Adopt domestic or imported glass fiber, which is made by non-fabric way;
  - ② The fiber has good strength and elasticity, and does not compress together due to wind resistance, which affects the dust capacity;
  - ③ The filter material is tiled in the filter, and the two sides are supported by the metal net;
  - ④ Filter temperature resistance: 400-450°C
  - ⑤ Filtering level: G4, F5
2. Performance characteristics
  - ① Good chemical resistance, high heat resistance and low moisture absorption of the filter;
  - ② High dust capacity, long service life, and non-combustible.
1. Design features of folding high-temperature filter
  - ① Both sides of the filter material are folded with galvanized wire mesh or stain-less steel mesh, with good strength, and the filter material is not easy to be blown out;
  - ② Double-sided with galvanized grid, galvanized diamond grid, stainless steel grid reinforcement, can be in large air volume Normal use under environment;
  - ③ Filter temperature resistance: 250-300°C;
  - ④ Filtering level: G3
2. Performance characteristics
  - ① Large filtration area of filter material and long service life;
  - ② High air volume, low initial resistance and incombustible.

### Material composition and operating conditions

size(H * W * D) (mm)	Rated air rate(m/h)	Filter area (m)	Dust capacity (g)	Initial resistance(Pa)	Final resistance(Pa)	Filtration efficiency
592*592*21	2400	0.9	≈150	≤40	100-200	G3
287*592*21	1200	0.44	≈70			
490*592*21	2050	0.76	≈120			
592*592*46	2600	0.97	≈160			
287*592*46	1400	0.51	≈80			
490*592*46	2150	0.8	≈130			

Note: in addition to the above dimensions, can accept customer non - customized

# Primary cleaner/replaceable filter



## ▶ The performance characteristics of

1. The filter material is easy to change and can be cleaned and used again.
2. Large air volume, low resistance and long service life.

## ▶ Application field

1. Ventilation and air conditioning systems for large civil buildings such as office buildings, conference rooms, hospitals, shopping malls and airports;
2. Prefiltration of centralized ventilation and air conditioning system in common industrial workshop or clean room.

## ▶ Application field

1. Solid and detachable frame: it adopts a solid aluminum alloy frame with aluminum alloy Angle fixing and solid translation structure to ensure that the filter will not be deformed or damaged under poor working environment. It adopts a detachable frameDesigned to facilitate the replacement of filter material to achieve the purpose of frame reuse.
2. The filter screen adopts special reinforcement, which further enhances the sturdiness of the filter. At the same time, the balanced spacing and double stiffeners ensure that the screen is evenly folded, so that the filter can be at least resistanceThe maximum dust capacity was reached.
3. The filter material is made of high quality polyester synthetic fiber, which can be cleaned and reused for many times, with a long service life and a fluffy and dense fiber structure, which ensures a high dust accumulation rate and a large amount of dust capacity, and effectively extends the middle effect filtration at the rear endThe service life of the device.
4. Filtration efficiency level: G1, G2, G3, G4(EN779).

## ▶ Material composition and operating conditions

The outer frame is made of aluminum	Aluminum profile/aluminum plate folding frame/galvanized frame/stainless steel frame
Liao material	Synthetic fiber
Supporting frame material	Painted galvanized iron wire
Filtration efficiency	G1:40% @ 2.0μm, G2:65% @ 2.0μm G3:85% @ 2.0μm, G4:90% @ 2.0μm
Maximum operating temperature	80°C
Use maximum humidity	100%

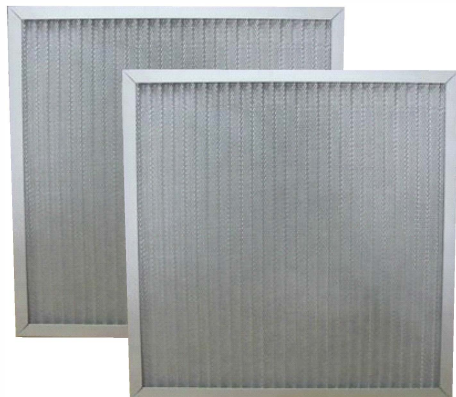
## ▶ Material composition and operating conditions

size(H * W * D) (mm)	Ratedairrate(m/h)	Filter area (m)	Dustcapacity (g)	Initialresistance(Pa)	Finalresistance(Pa)	Filtrationefficiency
592*592*46	3200	0.82	≈90	≤30	100-200	G1
			≈110	≤35	100-200	G2
			≈130	≤45	100-200	G3
			≈170	≤50	150-250	G4
287*592*46	1600	0.44	≈50	≤30	100-200	G1
			≈60	≤35	100-200	G2
			≈70	≤45	100-200	G3
			≈90	≤50	150-250	G4

Note: in addition to the above dimensions, can accept customer non - customized



# Metal mesh primary filter



## ▶ The performance characteristics of

Large air volume, low resistance, repeatable cleaning and long service life.

## ▶ Application field

Central air conditioning hoods and primary filtration, special acid, alkali or high temperature ventilation filtration.

## ▶ Application field

1. The filter is composed of corrugated aluminum mesh of different specifications, interlaced and placed in the inner frame;
2. Reduce the gap between the aluminum mesh, play a better filter;
3. For acid, alkali or high temperature environment, can choose stainless steel outer frame and stainless steel wave mesh production.

## ▶ Material composition and operating conditions

Filter material	Aluminum mesh/stainless steel mesh
The frame material	Aluminum frame, aluminum plate folding frame, galvanized frame, stainless steel frame
Maximum operating temperature	400°C
Use maximum humidity	100%

## ▶ Material composition and operating conditions

size(H * W * D) (mm)	Rated air rate (m /h)	Filter area (m)	Initial resistance (Pa)
592*592*21	3200	1.05	<20
592*287*21	1600	0.51	
592*490*21	2600	0.87	
592*592*46	3200	3.15	
592*287*46	1600	1.53	
592*490*46	2600	2.61	
592*592*50	3200	3.86	
592*287*50	1600	1.87	
592*490*50	2600	3.2	

Note: in addition to the above dimensions, can accept customer non - customized

# Medium effect fiberglass bag filter



## ▶ The performance characteristics of

1. Large filtration area and high dust capacity;
2. Large air volume, low resistance and long service life;
3. Suitable for long-term use in the environment below 150°C.

## ▶ Application field

1. Suitable for the filtration of paint, viscose, resin dyes, ink and oil products, chemicals and other industries;
2. Intermediate filtration of centralized ventilation and air conditioning system in clean -room.

## ▶ Application field

1. Medium effect glass fiber bag filter with its unique high-dust holding structure greatly improves the service life of the filter;
2. The glass fiber filter material of JM Company is adopted to ensure the effective operation of the filter system;
3. Good flame retardant performance, up to THE UL-2 standard, is an ideal choice for fire certification enterprises;
4. Filtration efficiency level: F5, F6, F7, F8(EN779).

## ▶ Material composition and operating conditions

The casing outside the material	Aluminum profile/aluminum plate folding frame/galvanized frame/stainless steel frame
Liao material	The glass fiber
Filter bag type	Since the bag sewing
Supporting frame material	Galvanized iron wire
Filtration efficiency	F5:45% @ 0.5μm, F6:65% @ 0.5μm F7:85% @ 0.5μm, F8:90% @ 0.5μm, F9:95% @ 0.5μm
Maximum operating temperature	150°C
Use maximum humidity	100%

## ▶ Material composition and operating conditions

size(H * W * D) (mm)	Numberofbags	Airvolume(m/h)	Filterarea (m)	Dustcapacity(g)	Initial resistance(Pa)	Finalresistance(Pa)	Filtrationefficiency
287*592*381	3	1000	1.58	≈380	< 50	250-300	F5
				≈330	< 65	250-300	F6
				≈290	< 80	300-400	F7
				≈250	< 100	300-400	F8
				≈630	< 50	250-300	F5
490*592*381	5	1700	2.65	≈560	< 65	250-300	F6
				≈480	< 80	300-400	F7
				≈420	< 100	300-400	F8
				≈740	< 6	250-300	F5
				≈660	< 65	250-300	F6
592*592*381	6	2050	3.18	≈590	< 80	300-400	F7
				≈500	< 100	300-400	F8

Note: in addition to the above dimensions, can accept customer non - customized

# Medium effect synthetic fiber bag filter



## ▶ The performance characteristics of

1. Large filtration area and high dust capacity;
2. Large air volume, low resistance and long service life;
3. Suitable for wet, high airflow and dust load environment.

## ▶ Application field

1. Widely used in pharmaceutical, automobile and food manufacturing industries, commercial buildings and various industrial ventilation systems;
2. Intermediate filtration of centralized ventilation and air conditioning system in clean room.

## ▶ Application field

1. Medium and high efficiency bag filter, with its unique bag structure, ensures the air flow evenly fills the whole bag; Unique hot-melt technology prevents overcrowding or leakage between the bags, which reduces drag and allows dust to accumulate. The volume is at its maximum.
2. The "bag-supporting grid" as a reinforcement can prevent the filter from contracting or bending deformation in extremely poor working environment;
3. The company has national standard bag type and European standard bag type filter materials for customers to choose, customers can choose different filter materials according to different cost performance to ensure the effective operation of the filter system;
4. Filtration efficiency level: F5, F6, F7, F8, F9(EN779).

## ▶ Material composition and operating conditions

The casing outside the material	Aluminum profile/aluminum plate folding frame/galvanized frame/stainless steel frame
Liao material	Synthetic fiber
Filter bag type	Ultrasonic bags
Supporting frame material	Galvanized iron wire
Filtration efficiency	F5:45% @ 0.5μm, F6:65% @ 0.5μm F7:85% @ 0.5μm, F8:90% @ 0.5μm, F9:95% @ 0.5μm
Maximum operating temperature	80°C
Use maximum humidity	100%

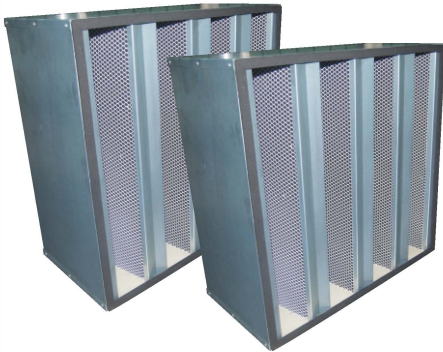


### Material composition and operating conditions

size(H*W*D) (mm)	Number of bags	Air volume(m <sup>3</sup> /h)	Filter area (m <sup>2</sup> )	Dust capacity(g)	Initial resistance(Pa)	Final resistance(Pa)	Filtration efficiency
287*592*381	3	1000	1.58	≈290	<50	250-300	F5
				≈250	<65	250-300	F6
				≈220	<80	300-400	F7
				≈190	<100	300-400	F8
				≈180	<120	400-450	F9
490*592*381	5	1700	2.65	≈480	<50	250-300	F5
				≈430	<65	250-300	F6
				≈370	<80	300-400	F7
				≈320	<100	300-400	F8
				≈290	<120	400-450	F9

Note: in addition to the above dimensions, can accept customer non - customized

# Combined activated carbon filter



## ► The performance characteristics of

1. Large air volume and easy installation;
2. Strong adsorption performance, can quickly remove all kinds of harmful gases in the air;
3. Large specific surface area, high carbon content and long service life.

## ► Application field

Central air conditioning, central ventilation systems and all kinds of places with extremely high pollution concentrations.

## ► Application field

1. It is assembled by multiple activated carbon filters;
2. The filter material adopts granular activated carbon as the adsorption base material and is filled in the fixed frame. Each activated carbon filter adopts black non-woven cloth cover and sprayed plastic rhomboid guard net as the support on both sides;
3. Activated carbon filter is placed in the outer frame with the v-shaped structure and sealed with PU polyurethane adhesive between the frame body.
4. The high carbon content of activated carbon can greatly improve the performance of odor removal and prolong the service life of the filter.

## ► Material composition and operating conditions

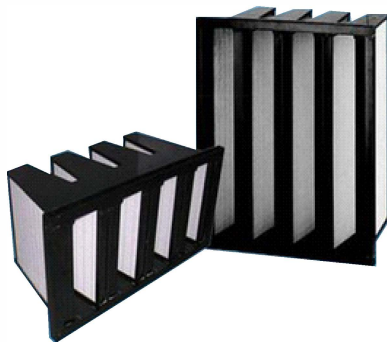
Filter material	Coal granular activated carbon, coconut shell broken carbon
sealant	PU two-component polyurethane AB adhesive
The frame material	Plastic frame, aluminum frame, galvanized frame, stainless steel frame
Defend the net	Plastic spraying diamond mesh
Sealing strip	EVA, neoprene
Odor removal rate	≥95%
Maximum operating temperature	80°C
Use maximum humidity	80%

## ► Material composition and operating conditions

size(H * W * D) (mm)	Net active carbon content(Kg)	Odor removal rate(%)	The casing outside the material	Number of intervals and faces	resistance	Air volume (m/h)
592*287*292	12.3	≥95	ABS ABS plastic	Four eight sides	< 200	1550
592*592*292	27.1			Four eight sides		3500
592*490*292	22.2		Galvanized box	Four eight sides		2800
592*287*292	13.8			Four eight sides		1800
592*592*292	28.9			Four eight sides		3700
592*490*292	23.9			Four eight sides		3100
592*287*292	17.3		Stainless steel frame	Five every ten surface		2250
592*592*292	36.1		Aluminum frame	Five every ten surface		4650
592*490*292	29.8			Five every ten surface		3850

Note: in addition to the above dimensions, can accept customer non - customized

# Plastic frame combined medium effect filter



## ▶ The performance characteristics of

1. Large filtration area and long service life;
2. High air volume and low resistance;
3. Light weight, easy to install.

## ▶ Application field

1. Intermediate filtration of industrial and civil ventilation systems;
2. Intermediate filtration of centralized ventilation and air conditioning system in clean room.

## ▶ Application field

1. Mainly used to filter the air suspended particles above 0.5  $\mu$ m, as the intermediate filtration of air conditioning system, specially designed to meet the demand of large air volume under low resistance;
2. High dust holding ratio. Filter materials are made from polypropylene PP - sprayed or ultrafine fiberglass filter paper, separated by hot-melt adhesive;
3. The thermoplastic spacer ensures the same fold spacing to ensure that the best airflow passes through with the least resistance. The same fold spacing makes full use of the filter material of the whole depth to ensure greater dust capacity;
4. Polypropylene plastic outer frame, can be completely incinerated waste treatment;
5. With mounting flange frame, it can be interchanged with common bag filter;
6. Filtration efficiency level: F6, F7, F8, F9(EN779).

## ▶ Material composition and operating conditions

The casing outside the material	Aluminum profile/aluminum plate folding frame/galvanized frame/stainless steel frame
Liao material	Polypropylene PP melt spray fiber or ultrafine glass fiber filter paper
Frame sealant	PU two-component polyurethane AB adhesive
Filter bag type	Ultrasonic bag/self-sewing bag
Defend the net	Plastic spraying diamond mesh
dividers	EVA hot melt adhesive
Sealing strip	EVA, neoprene
Filtration efficiency	F6:65%@0.5 $\mu$ m, F7:85%@0.5 $\mu$ m F8:90%@0.5 $\mu$ m, F9:95%@0.5 $\mu$ m
Maximum operating temperature	70°C
Use maximum humidity	80%

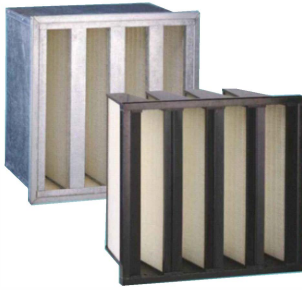
## ▶ Material composition and operating conditions

size(H * W * D) (mm)	several	Rated air rate(m/h)	Filter area (m)	Dust capacity(g)	Initial resistance(Pa)	Final resistance(Pa)	Filtration efficiency
287*287*292	2	900	4.63	≈280	≤60	250-300	F6
					≤80	300-400	F7
					≤100	300-400	F8
					≤120	400-450	F9
592*592*292	3	2850	15.03	≈900	≤60	250-300	F6
					≤80	300-400	F7
					≤100	300-400	F8
					≤120	400-450	F9

Note: in addition to the above dimensions, can accept customer non - customized



# Combined hePA filter



## ▶ Application field

### ▶ The performance characteristics of

1. High efficiency, large filtration area and long service life;
2. High air volume and low resistance;
3. Light weight, easy to install.

### ▶ Application field

Air conditioning unit terminal filtration, large air volume air purification equipment.

1. Mainly used to filter 0.3 μm or more of the air suspended particles, as the end of the air conditioning system filtration, specially designed for low resistance to meet the demand for large air volume.
2. High dust capacity, baffle free design: The filter material is made of ultrafine glass fiber filter paper, separated by hot sol.
3. The thermoplastic spacer ensures the same fold spacing to ensure that the best airflow passes through with the least resistance. The same fold spacing makes full use of the filter material of the whole depth to ensure greater dust capacity.
4. High air flow type: compared with common hePA filter, it can use fewer filters at the same air flow, reduce cost and reduce the air inlet surface of plastic frame with 20\*25mm flange, which is easy to install.
5. Each filter is strictly tested.
6. Filtration yield grade: H13, H14(EN1822).

## ▶ Material composition and operating conditions

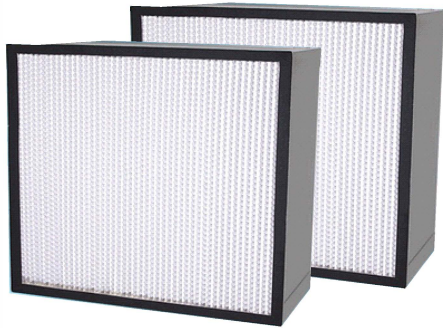
Filter material	Ultrafine fiberglass filter paper
sealant	PU two-component polyurethane
The frame material	AB adhesive ABS plastic box
Defend the netdivi	Plastic spraying diamond mesh
ders	EVA hot melt adhesive
Sealing strip	EVA or neoprene
Filtration efficiency	H13:99.97-99.99% @ 0.3μm H14:99.995-99.999% @ 0.3μm
Maximum operating temperature	70°C
Use maximum humidity	80%

## ▶ Material composition and operating conditions

size(H * W * D) (mm)	several	Rated air rate (m/h)	Filter area (m)	Dust capacity (g)	Initial resistance (Pa)	Final resistance (Pa)	Filtration efficiency
287*287*292	2	550	4.63	≈280	≤200	400-600	H13
					≤220	400-600	H14
592*592*292	3	1900	15.03	≈900	≤200	400-600	H13
					≤220	400-600	H14
592*592*292	4	2500	20.04	≈1200	≤200	400-600	H13
					≤220	400-600	H14
592*490*292	4	2050	16.44	≈1000	≤200	400-600	H13
					≤220	400-600	H14
592*287*292	4	1150	9.26	≈550	≤200	400-600	H13
					≤220	400-600	H14

Note: in addition to the above dimensions, can accept customer non - customized

# High efficiency filter with partition



## ► The performance characteristics of

1. Large filtration area and long service life;
2. High air volume, low resistance and high dust capacity;
3. High filtration efficiency and good wind speed uniformity.

## ► Application field

Widely used in electronics factory, semiconductor, precision machinery, pharmaceutical, hospital food and other industries; Advanced purification equipment, purification system-end filter components, local purification equipment and clean plant.

## ► Application field

1. Mainly used for filtration of air suspended particles above 0.3 μm, as the terminal filtration of various filtration systems.
2. The filter material is made of ultrafine glass fiber filter paper, separated by folding of adhesive paper, aluminum foil and other materials.
3. Corrugated paper separator or aluminum separator shall maintain the equal spacing of each folded paper, and the air flow is easy to pass through to ensure the effective use of filter material and increase its strength.
4. The filter material can be folded 180 degrees on both sides to form a chip-shaped folding house. Chip-shaped box-shaped folding house can prevent the material damage; If single indentation or roll mark filter material fold layer, filter material is easy to be damaged by the corrugated baffle sharp folding top.
5. All the sides of the filter are sealed with special sealing mixture to ensure the tightness of the whole filter.
6. Each filter is strictly tested.
7. Filtration efficiency level: H13, H14(EN1822).

## ► Material composition and operating conditions

Filter material	Ultrafine fiberglass filter paper
Sealant	IPU two-component polyurethane AB adhesive
The frame material	Aluminum frame, aluminum plate folding frame, galvanized frame, stainless steel frame, wood frame
Dividing net	There is no
dividers	120g/m adhesive paper or 0.035mm thick aluminum foil
Sealing strip	EVA or neoprene
Filtration efficiency	H13:99.97-99.99% @ 0.3μm H14:99.995-99.999% @ 0.3μm
Maximum operating temperature	80℃
Use maximum humidity	80%

## ► Material composition and operating conditions

size(H * W * D) (mm)	Rated air rate (m/h)	Filter area (m)	Dust capacity (g)	Initial resistance (Pa)	Final resistance (Pa)	Filtration efficiency
320*320*150	250	2.59	≈160	≤200 ≤220	400-600	H13
484*484*150	600	6.0	≈360	≤200 ≤220	400-600	H14
610*610*150	1000	9.59	≈580	≤200 ≤220	400-600	H13
915*610*150	1500	14.38	≈860	≤200 ≤220	400-600	H14
1220*610*150	2000	19.17	≈1150	≤200 ≤220	400-600	H13
320*320*220	500	4.08	≈250	≤200 ≤220	400-600	H14
484*484*220	1000	9.46	≈570	≤200 ≤220	400-600	H13

Note: in addition to the above dimensions, can accept customer non - customized

# High efficiency filter without partition



## ▶ The performance characteristics of

1. High efficiency and low resistance;
2. Light weight and thin thickness;
3. Easy installation and low operating cost.

## ▶ Application field

Widely used in electronics, medicine, food, semiconductor manufacturing, atomic force research, precision machinery, cosmetics and other requirements of high purity.

## ▶ Application field

1. Mainly used for filtration of air suspended particles above 0.3 μm, as the terminal filtration of various filtration systems.
2. The filter material is made of ultrafine glass fiber filter paper, separated by hot-melt adhesive.
3. This design reduces the operation cost. The clapless thermoplastic separator can ensure the same fold spacing, ensure the best airflow through, achieve high dust capacity, and make full use of the filter material of the entire depth of the filter.
4. The outer frame is anodized to increase toughness and durability of corrosion resistance.
5. All the sides of the filter are sealed with special sealing mixture to ensure the tightness of the whole filter.
6. Spray plastic screen is installed on the inlet and outlet surface of the filter to protect the filter paper from being damaged.
7. Each filter is strictly tested.
8. Filtration efficiency level: H13, H14 (EN1822).

## ▶ Material composition and operating conditions

Filter material	Ultrafine fiberglass filter paper
sealant	PU two-component polyurethane AB adhesive
The frame material	Aluminum profile frame, aluminum plate frame, galvanized frame, stainless steel frame
Defend the net	Plastic spraying diamond mesh
dividers	EVA hot melt adhesive
Sealing strip	EVA or neoprene
Filtration efficiency	H13:99.97-99.99% @ 0.3 μm H14:99.995-99.999% @ 0.3 μm
Maximum operating temperature	70°C
Use maximum humidity	80%

## ▶ Material composition and operating conditions

size (H * W * D) (mm)	Rated air rate (m³/h)	Filter area (m²)	Dust capacity (g)	Initial resistance (Pa)	Final resistance (Pa)	Filtration efficiency
320*320*50	200	1.99	≈120	≤200 ≤220	400-600	H13
484*484*50	450	4.51	≈270	≤200 ≤220	400-600	H14
610*610*50	700	7.13	≈430	≤200 ≤220	400-600	H13
915*610*50	1000	10.58	≈650	≤200 ≤220	400-600	H14
1170*570*50	1200	12.57	≈750	≤200 ≤220	400-600	H13
1220*610*50	1350	14.04	≈850	≤200 ≤220	400-600	H14
320*320*69	250	2.89	≈180	≤200 ≤220	400-600	H13

Note: in addition to the above dimensions, can accept customer non - customized

# Disposable integrated filter



## ▶ The performance characteristics of

1. High efficiency, large filtration area and long service life;
2. Large air volume, low resistance and low operating cost.

## ▶ Application field

Widely used in hospital operating rooms, laboratories, pharmaceutical rooms, microelec-tronics, film, optical fiber equipment and food processing plantsA clean working environ-ment.

## ▶ Application field

1. Mainly used for filtration of air suspended particles above 0.3 m, as the terminal filtration of various filtration systems.
2. High dust capacity, baffle free design: The filter material is made of ult-rafine glass fiber filter paper, separated by hot-melt adhesive.
3. Thermoplastic spacer ensures the same fold spacing to ensure that thebest airflow passes through with the least resistance, the same foldLa-yer spacing, the full use of the entire depth of the filter material, to en-sure a greater amount of dust.
4. Closed structure is adopted to prevent internal voids and leakage.
5. The outer frame is anodized aluminum, low in shape, light in weight, easy to handle and install.
6. In the wind to take over, into the wind to take over the diameter of op-tional  $\Phi 250$ ,  $\Phi 300$ ,  $\Phi 350$ .
7. The filter is connected to the round air duct, and the air is uniformly supplied after passing through the diffusion plate.
8. The box body is covered with PEF thermal insulation cotton with good thermal insulation performance.
9. Each filter is rigorously tested.
10. Filtration efficiency level: H13-H14(EN1822).

## ▶ Material composition and operating conditions

Filter material	Ultrafine fiberglass filter paper
sealant	PU two-component polyurethane AB adhesive
The frame material	Aluminum frame, galvanized frame, stainless steel frame
Defend the net	Plastic spraying diamond mesh
dividers	EVA hot melt adhesive
Sealing strip	EVA or neoprene
Filtration efficiency	H13:99.97-99.99% @ 0.3 $\mu$ m H14:99.995-99.999% @ 0.3 $\mu$ m
Maximum operating temperature	70°C
Use maximum humidity	80%

## ▶ Material composition and operating conditions

size(H * W * D) (mm)	Rated air rate (m/h)	Filter area (m)	Dust capacity (g)	Initial resistance (Pa)	Final resistance (Pa)	Filtration efficiency
610*610*120	1000	11.32	≈680	≤200 ≤220	400-600	H13
915*610*120	1500	16.71	≈1000	≤200 ≤220	400-600	H14
1170*570*120	1800	19.79	≈1200	≤200 ≤220	400-600	H13
1220*610*120	2000	22.1	≈1350	≤200 ≤220	400-600	H14
610*610*150	1250	14.14	≈850	≤200 ≤220	400-600	H13
915*610*150	1900	20.88	≈1250	≤200 ≤220	400-600	H14
1170*570*150	2200	24.74	≈1500	≤200 ≤220	400-600	H13

Note: in addition to the above dimensions, can accept customer non - customized

# Replaceable integrated filter



## ► The performance characteristics of

1. Strong ventilation, beautiful appearance, easy installation and replacement, simple maintenance.
2. Large air volume, low resistance, light weight, thin thickness, high filtration efficiency, low operating cost.

## ► Application field

Widely used in hospital operating rooms, laboratories, pharmaceutical rooms, microelectronics, film, optical fiber equipment and food processing plantsA clean working environment.

## ► Application field

1. Mainly used for filtration of air suspended particles above 0.3 μm, as the terminal filtration of various filtration systems.
2. Anodized aluminum box material, light weight, easy to handle and install, suitable for aluminum alloy dragon installationA clean room in the form of bone.
3. In the wind to take over, into the wind to take over the diameter of optionalΦ 250, Φ 300, Φ 350.
4. The HEPA filter and the static pressure box are divided into two types, which can be adjusted with a regulating valve at the inlet of the static pressure boxUniformity of air supply and static pressure effect.
5. The filter adopts the replaceable design, which does not need to be replaced together with the box body, thus reducing the cost and saving resources.
6. The filter screen fixed piece with special tool free can be replaced directly from the room, which is fast to install and convenient to replace.
7. Replace the special clapless HEPA filter (thickness 69mm) in the room with high filtration efficiency and low resistance.
8. Four aluminum profile lifting blocks on the cover plate are used for integrated ceiling installation.
9. The box body is covered with PEF thermal insulation cotton with good thermal insulation performance.
10. It is especially suitable for clean rooms with limited civil height or compact designSave space.
11. Each filter is rigorously tested.
12. Filtration efficiency level: H13-H14(EN1822).

## ► Material composition and operating conditions

Overall dimensions(H*W*D)(mm)	Filter size (W*H*D)(mm)	Rated air rate (m <sup>3</sup> /h)	Filter area (m <sup>2</sup> )	Dust capacity (g)	Initial resistance (Pa)	Final resistance (Pa)	Filtration efficiency
360*360*180	320*320*69	250	2.89	≈180	≤200 ≤220	400-600	H13 H14
524*524*180	484*484*69	600	6.55	≈400	≤200 ≤220	400-600	H13 H14
650*650*180	610*610*69	1000	10.37	≈650	≤200 ≤220	400-600	H13 H14
955*650*180	915*610*69	1500	15.39	≈930	≤200 ≤220	400-600	H13 H14
1210*610*180	1170*570*69	1800	18.28	≈1100	≤200 ≤220	400-600	H13 H14
1260*650*180	1220*610*69	2000	20.41	≈1250	≤200 ≤220	400-600	H13 H14

Note: in addition to the above dimensions, can accept customer non - customized



# DOP integrated filter



## ► The performance characteristics of

1. Strong ventilation, beautiful appearance, easy installation and replacement, good seal-ing performance;
2. High air volume, low resistance, light weight, thin thickness, high filtration efficiency.

## ► Application field

Widely used in hospital operating rooms, laboratories, pharmaceutical rooms, microelec-tronics, film, optical fiber equipment and food processing plantsA clean working environ-ment.

## ► Application field

1. Mainly used to filter 0.3 m or more of the air suspended particles, as a variety of filtrati-on systemsThe end of the filter.
2. The box body made of aluminum folding box, galvanized box light weight, easy handl-ing installation, It is installed in a clean room in the form of aluminum alloy keel.
3. In the wind to take over, into the wind to take over the diameter of optional  $\Phi 250$ ,  $\Phi 300$ ,  $\Phi 350$ .
4. Closed structure is adopted to prevent internal voids and leakage.
5. There is a air flow control valve under the air inlet, which can swing the direction at will during the air supply processBetter recoil and average flow.
6. The filter is composed of two pieces of filter material, with a special block in the middle and a block on the air outlet surfaceWith DOP test port in the middle, rubber plug seal to ensure high standard testConditions.
7. Wind surface with metal mesh.
8. The four lifting ring screws on the cover plate are used for the ceiling installation of thefilter.
9. The box body is covered with PEF thermal insulation cotton with good thermal insulat- ion performance.
10. Especially suitable for cleaning when civil height restrictions or compact designs are necessaryRoom, save space greatly.
11. Each filter is rigorously tested.
12. Filtration efficiency level: H13-H14(EN1822).

## ► Material composition and operating conditions

Filter material	Ultrafine fiberglass filter paper
sealant	PU two-component polyurethane AB adhesive
The frame material	Aluminum frame, galvanized frame, stainless steel frame
Defend the net	Plastic spraying diamond mesh
dividers	EVA hot melt adhesive
Sealing strip	EVA or neoprene
Filtration efficiency	H13:99.97-99.99% @ 0.3 $\mu$ m H14:99.995-99.999% @ 0.3 $\mu$ m
Maximum operating temperature	70°C
Use maximum humidity	80%

## ► Material composition and operating conditions

size(H * W * D) (mm)	Ratedairrate(m/h)	Filter area (m)	Dust capacity (g)	Initial resistance (Pa)	Final resistance (Pa)	Filtration efficiency
610*610*120	1000	11.32	≈680	≤200 ≤220	400-600	H13
915*610*120	1500	16.71	≈1000	≤200 ≤220	400-600	H14
1170*570*120	1800	19.79	≈1200	≤200 ≤220	400-600	H13
1220*610*120	2000	22.1	≈1350	≤200 ≤220	400-600	H14
610*610*150	1250	14.14	≈850	≤200 ≤220	400-600	H13
915*610*150	1900	20.88	≈1250	≤200 ≤220	400-600	H14
1170*570*150	2200	24.74	≈1500	≤200 ≤220	400-600	H13

Note: in addition to the above dimensions, can accept customer non - customized

# Knife - stand - type baffle - free hePA filter



## ▶ The performance characteristics of

1. High efficiency, low resistance and large dust capacity;
2. Easy to install and good sealing performance.

## ▶ Application field

Applicable to all kinds of vertical air supply clean plant terminal filtration.

## ▶ Application field

1. Mainly used to filter 0.3 μm or more of the air suspended particles, as a variety of filtration systems.
2. The filter material is made of ultrafine glass fiber filter paper and separated by hot sol.
3. This design reduces the operation cost, and the clapless thermoplastic sealant can ensure the same crimp layer spacing, to ensure the best airflow through, to reach a high capacity of dust, make full use of the filter material.
4. All the sides of the filter are sealed with special sealing mixture to ensure the tightness of the whole filter.
5. Add plastic spraying screen on the inlet and outlet surface of the filter to protect the filter paper from being damaged.
6. The air surface of the filter has a certain length of knife edge.
7. Each filter is strictly tested.

Filtration efficiency level: H13, H14(EN1822).

## ▶ Material composition and operating conditions

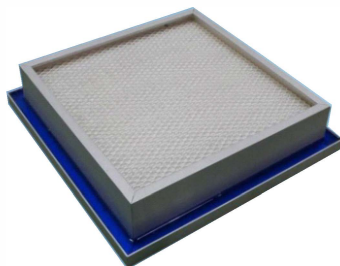
Filter material	Ultrafine fiberglass filter paper
sealant	PU two-component polyurethane AB adhesive
The frame material	Aluminum frame
Defend the net	Plastic spraying diamond mesh
dividers	EVA hot melt adhesive
Sealing strip	EVA or neoprene
Filtration efficiency	H13:99.97-99.99% @ 0.3μm H14:99.995-99.999% @ 0.3μm
Maximum operating temperature	70°C
Use maximum humidity	80%

## ▶ Material composition and operating conditions

Filter size (W*H*D)(mm)	Rated air rate (m/h)	Filter area (m)	Dust capacity (g)	Initial resistance (Pa)	Final resistance (Pa)	Filtration efficiency
320*320*110	400	4.16	≈250	≤200	400-600	H13
				≤220		H14
484*484*110	900	9.42	≈570	≤200	400-600	H13
				≤220		H14
610*610*110	1450	14.9	≈900	≤200	400-600	H13
				≤220		H14
915*610*110	2150	21.22	≈1330	≤200	400-600	H13
				≤220		H14
1220*610*110	2850	29.33	≈1760	≤200	400-600	H13
				≤220		H14

Note: in addition to the above dimensions, can accept customer non - customized

# Liquid bath type baffle less high efficiency filter



## ▶ The performance characteristics of

1. High efficiency, low resistance and large dust capacity;
2. Easy to install and good sealing performance.

## ▶ Application field

Applicable to all kinds of vertical air supply clean plant terminal filtration.

## ▶ Application field

1. Mainly used to filter 0.3 μm or more of the air suspended particles, as a variety of filtration systems.
2. The filter material is made of ultrafine glass fiber filter paper and separated by hot sol.
3. This design reduces the operation cost, and the clapless thermoplastic sealant can ensure the same crimp layer spacing, to ensure the best airflow through, to reach a high capacity of dust, make full use of the entire depth of the filter material.
4. All the sides of the filter are sealed with special sealing mixture to ensure the tightness of the whole filter.
5. Add plastic spraying screen on the inlet and outlet surface of the filter to protect the filter paper from being damaged.
6. The air surface of the filter is provided with a flange and the inner side of the flange is filled with a sealant. The sealing performance will be greatly enhanced.
7. The sealant in the tank is a non-Newtonian liquid, which is non-volatile, non-greasy and acidproof. Alkali is non-toxic and tasteless. And has good flame retardant and stable electrical insulation performance.
8. Because the air inlet surface of the filter is equipped with flange, the size of the air inlet surface and the air outlet surface are inconsistent. The dimensions of inlet and outlet air surface shall be provided when making orders.
9. Each filter is rigorously tested.
10. Filtration efficiency level: H13, H14 (EN1822).

## ▶ Material composition and operating conditions

Filter material	Ultrafine fiberglass filter paper
sealant	PU two-component polyurethane AB adhesive
The frame material	Aluminum frame
Defend the net	Plastic spraying diamond mesh
dividers	EVA hot melt adhesive
Sealing strip	EVA or neoprene
Filtration efficiency	H13: 99.97-99.99% @ 0.3 μm H14: 99.995-99.999% @ 0.3 μm
Maximum operating temperature	70°C
Use maximum humidity	80%

## ▶ Material composition and operating conditions

size (H * W * D) (mm)	Air inlet surface dimension (H * W * D) (mm)	Rated air rate (m/h)	Filter area (m)	Dust capacity (g)	Initial resistance (Pa)	Final resistance (Pa)	Filtration efficiency
346*346*90	320*320*90	400	4.16	≈250	≤200	400-600	H13
					≤220	400-600	H14
510*510*90	484*484*90	900	9.42	≈570	≤200	400-600	H13
					≤220	400-600	H14
636*636*90	610*610*90	1450	14.9	≈900	≤200	400-600	H13
					≤220	400-600	H14
941*636*90	915*610*90	2150	21.22	≈1330	≤200	400-600	H13
					≤220	400-600	H14
1246*636*90	1220*610*90	2850	29.33	≈1760	≤200	400-600	H13
					≤220	400-600	H14

Note: in addition to the above dimensions, can accept customer non - customized

# Super high efficiency baffle free filter



## ► The performance characteristics of

1. High efficiency, low resistance and high dust capacity;
2. Light weight and thin thickness;  
Easy to install and low operating cost.

## ► Application field

Widely used in ultra-LSI manufacturing plants, semiconductor manufacturing plants, ato-mic force research center, clean room, ultra-clean laboratory, Ultra-clean table and other requirements of ultra-clean occasions.

## ► Application field

1. Mainly used for filtration of air suspension particles above 0.12 m, as grade 10 and grade 1The end of the filtration system.
2. The filter material is made of American HV ultrafine glass fiber filter paper and separated by hot melt adhesive.
3. This design reduces the operation cost, and the clapless thermoplastic sealant can ensure the sameFold spacing, to ensure the best airflow through, to achieve high dust capacity, full useFilter material to the entire depth of the filter.
4. The outer frame is anodized to increase toughness and durability of corrosion resistance.
5. All the sides of the filter are sealed with special sealing mixture to ensure the tightness of the whole filter.
6. Add plastic spraying screen on the inlet and outlet surface of the filter to protect the filter paper from being damaged.
7. Each filter is strictly tested.
8. Filtration efficiency grade: U15, U16, U17(EN1822).

## ► Material composition and operating conditions

Filter material	HV ultrafine glass fiber filter paper
sealant	PU two-component polyurethane AB adhesive
The frame material	Aluminum frame, aluminum plate folding frame, galvanized frame, stainless steel frame
Defend the net	Plastic spraying diamond mesh
dividers	EVA hot melt adhesive
Sealing strip	EVAor neoprene
Filtration efficiency	U15:99.999-99.9995%@0.12μm、U16:99.9999-99.99995%@0.12μm、 U17:99.99999-99.999995%@0.12μm
Maximum operating temperature	70°C
Use maximum humidity	100%

## ► Material composition and operating conditions

External dimension (W*H*D)(mm)	Rated airrate (m/h)	Filter area (m)	Dust capacity (g)	Initial resistance (Pa)	Final resistance (Pa)	Filtration efficiency
320*320*50	150	1.99	≈160	≤150	400-600	U15
				≤160		U16
				≤170		U17
484*484*50	300	4.51	≈360	≤150	400-600	U15
				≤160		U16
				≤170		U17
610*610*50	450	7.13	≈570	≤150	400-600	U15
				≤160		U16
				≤170		U17
915*610*50	650	10.58	≈850	≤150	400-600	U15
				≤160		U16
				≤170		U17

Note: in addition to the above dimensions, can accept customer non - customized

## 280 High Temperature resistant separator efficient Filter



### ▶ The performance characteristics of

1. High efficiency, low resistance and large dust capacity;
2. High temperature resistant, can be used for a long time under 280°C environment.

### ▶ Application field

Widely used in electronic, semiconductor, pharmaceutical, food and other production links, such as super clean oven drying or high temperature air requirementsPurification equipm-ent and systems.

### ▶ Application field

1. Mainly used to filter 0.3 m above the air suspension particles.
2. The filter material is made of high-temperature resistant ultrafine glass fiber filter paper, separated by aluminum foil.
3. Corrugated paper baffles or aluminum baffles maintain equal spacing between each folded paper with easy airflowMake sure the filter material is used effectiv-ely and increase its strength.
4. All around the filter are sealed with special high temperature resistant and densemixture to ensure the whole filterThe tightness of.
5. Each filter is strictly tested.
6. Filtration efficiency level: H13, H14(EN1822).

### ▶ Material composition and operating conditions

The frame material	Aluminum frame, aluminum plate folding frame, galvanized frame, stainless steel frame
Filter material	High temperature resistant superfine glass fiber filter paper
sealant	Red heat-resistant silica gel
Defend the net	No or no steel grid
dividers	0.035 m thick aluminum foil
Sealing strip	6mm thick red silica gel strip
Filtration efficiency	H13:99.97-99.99%@0.3μm H14:99.995-99.999%@0.3μm
Maximum operating temperature	280°C
Use maximum humidity	80%

### ▶ Material composition and operating conditions

size(H * W * D) (mm)	Rated air rate (m /h)	Filter area (m)	Dust capacity (g)	Initial resistance (Pa)	Final resistance(Pa)	Filtration efficiency
320*320*150	250	2.59	≈160	≤200	400-600	H13
				≤220	400-600	H14
484*484*150	600	6.0	≈360	≤200	400-600	H13
				≤220	400-600	H14
610*610*150	1000	9.59	≈580	≤200	400-600	H13
				≤220	400-600	H14
915*610*150	1500	14.38	≈860	≤200	400-600	H13
				≤220	400-600	H14

Note: in addition to the above dimensions, can accept customer non - customized



# High efficiency filter with baffle plate at 400□



## ► The performance characteristics of

1. High efficiency, low resistance and large dust capacity.
2. Resistant to high temperature, it can be used for a long time at 350-400°C.

## ► Application field

Widely used in semiconductor, pharmaceutical, food, LIQUID crystal display and chip industry and other production link requirements drying oven or equipment and systems requiring high temperature air purification.

## ► Application field

1. Mainly used to filter 0.3 μm above the air suspension particles.
2. The filter material is made of high-temperature resistant ultrafine glass fiber filter paper, separated by aluminum foil.
3. Corrugated paper separator or aluminum separator shall maintain equal spacing between each folded paper so that air flow is easy to pass through. Ensure effective use of filter materials and increase their strength.
4. The filter is sealed with special high temperature resistant inorganic glue all around to ensure the sealing of the whole filter.
5. The high-temperature filter can withstand temperatures up to 400°C and contains no silicon, which is especially suitable for high resistance. It is also not allowed in industries that contain silicon.
6. Each filter is strictly tested.
7. Filtration efficiency level: H13, H14 (EN1822).

## ► Material composition and operating conditions

Filter material	High temperature resistant superfine glass fiber filter paper
sealant	High temperature resistant inorganic adhesive
The frame material	Galvanized frame, stainless steel frame
Defend the net	No or stainless steel grid
dividers	0.035 mm thick aluminum foil
Sealing strip	5mm thick white polytetrafluoroethylene tape
Filtration efficiency	H13:99.97-99.99% @ 0.3μm H14:99.995-99.999% @ 0.3μm
Maximum operating temperature	400°C
Use maximum humidity	80%

## ► Material composition and operating conditions

size(H * W * D) (mm)	Rated air rate (m/h)	Filter area (m)	Dust capacity (g)	Initial resistance (Pa)	Final resistance (Pa)	Filtration efficiency
320*320*150	250	2.59	≈160	≤200 ≤220	400-600	H13
484*484*150	600	6.0	≈360	≤200 ≤220	400-600	H14
610*610*150	1000	9.59	≈580	≤200 ≤220	400-600	H13
915*610*150	1500	14.38	≈860	≤200 ≤220	400-600	H14
1220*610*150	2000	19.17	≈1150	≤200 ≤220	400-600	H13
320*320*220	500	4.08	≈250	≤200 ≤220	400-600	H14
484*484*220	1000	9.46	≈570	≤200 ≤220	400-600	H13

Note: in addition to the above dimensions, can accept customer non - customized

# Filter efficiency comparison table

Table of the cleanliness grade of suspended particles in the air of clean room (area) specified in the National standard "Clean Plant Design Code" (GB50073-2001)

## Level of airborne particulate cleanliness in a clean area

Air cleanliness level		Less than or equal to the maximum concentration limit for particle size in the table (PC/M)					
ISO standards	China standard	0.1 $\mu$ m	0.2 $\mu$ m	0.3 $\mu$ m	0.5 $\mu$ m	1 $\mu$ m	5 $\mu$ m
Level 1		10	2				
Level 2	Level 1	100	24	10	4		
Level 3	Level 5	1000	237	102	35	8	
Level 4	Ten steps	10000	2370	1020	352	33	
Level 5	The magnitude of	100000	23700	10200	3520	832	29
Level 6	Thousands of level	1000000	237000	102000	35200	8320	293
Level 7	All level				352000	83200	2930
Level 8	Hundreds of level				3520000	832000	29300
Level 9	The class of three hundred thousand				35200000	8320000	2930000

According to GMP (GMP) (revised in 2010), the cleanliness grade of suspended granule and the maximum allowable number of microorganism in the air of clean room (area) for drug production is specified

## Table of clean room (area) Air cleanliness Grade

Cleanliness level	Maximum allowable granulation /PC.m3		Maximum allowable microorganisms/PC.m3	
	$\geq 0.5\mu$ m	$\geq 5\mu$ m	Plankton/per. M3	Floating bacteria/(one/dish)
Level 100	3 500	0	5	1
Level 10000	350 000	2 000	100	3
Level 100000	3500 000	20 000	500	10
Level 300000	10 500 000	60 000	1 000	15

## Standard for grade of clean room of Clean Operation Department

level	Sedimentation (planktonia) of the maximum average concentration of bacteria		Maximum surface contamination density	Air cleanliness grade	
	Operation area	The surrounding area		Operation area	The surrounding area
I	0.2个30min $\Phi$ 90皿 ( 5个/ $m^3$ )	0.4个30min $\Phi$ 90皿 ( 10个/ $m^3$ )	5个/ $cm^2$	100级	100级
II	0.75个30min $\Phi$ 90皿 ( 25个/ $m^3$ )	1.5个30min $\Phi$ 90皿 ( 50个/ $m^3$ )	5个/ $cm^2$	1000级	1000级
III	2个30min $\Phi$ 90皿 ( 75个/ $m^3$ )	4个30min $\Phi$ 90皿 ( 150个/ $m^3$ )	5个/ $cm^2$	10000级	10000级
IV	5个30min $\Phi$ 90皿 ( 175个/ $m^3$ )		5个/ $cm^2$	300000级	

# Filter efficiency comparison table

## Level of airborne particulate cleanliness in a clean area Us Federal standard 209E

Class name		Level limit									
		0.1μm		0.2μm		0.3μm		0.5μm		5μm	
Class name	English unit	/M3	/ft3	/m3	/ft3	/m3	/ft3	/m3	/ft3	/m3	/ft3
M1		350	9.91	75.7	2.14	30.9	0.875	10.0	0.283		
M1.5	1	1240	35.0	265	7.50	106	3.00	3.53	1.00		
M2		3500	99.1	757	21.4	309	8.75	100	2.83		
M2.5	10	1240	350	2650	75.0	1060	30.0	353	10.0		
M3		35000	991	7570	214	3090	87.5	1000	28.3		
M3.5	100			26500	750	10600	300	3530	100		
M4				75700	21400	30900	875	10000	283		
M4.5	1000							35300	1000	247	7
M5								100000	2830	618	17.5
M5.5	10000							353000	10000	2470	70.0
M6								1000000	28300	6180	175
M6.5	100000							3530000	100000	24700	700
M7								10000000	283000	61800	1750

The national standard "Clean Room Design Code" (GB50073-2001) stipulates that the average wind speed or ventilation times of the section of the empirical clean room are required to calculate the clean room air delivery volume of different grades of clean rooms

## Table showing the average sectional wind speed or ventilation rate of the clean room

Cleanliness level	GB50073-2001	ISO/DIS 14644-4
Level 1-4	0.3-0.5 m.s-1	0.3-0.5 m.s-1
Level 5	0.2-0.5 m. s-1	0.2-0.5 m. s-1
Level 6	50-60 h-1	25-56 h-1
Level 7	15-25 h-1	11-25 h-1
Level 8	10-15 h-1	3.5-7 h-1
Level 9	10-15 h-1	3.5-7 h-1

## Clean room load estimation data

industry	Cooling load/km1 - (m2. S - 1)	Heat load/KM1 -(M2 8-1)	Electrical load/KW.m-2
Semiconductor free device	48-2385	30-1400	0.06-1.3
Semiconductor material	90-1033	144-1360	0.13-0.69
Electric vacuum	182-500	245-504	0.04-0.2
Precision instruments	257-1148	213-757	0.11-0.31
film	约41	约172	约0.02
The computer	约200	约70	---
medical	140-345	100-517	0.15-0.26
System of chaff	274-1100	236-1530	0.003-0.08
Computer cente	200-250	---	---
rHospitals (all)	90-110	---	---

# Domestic sewage integrated treatment equipment

## ► Sewage treatment procedure

After adjusting the effluent of the homogenizer, the flow enters the anoxic zone and the wastewater from the anoxic zone enters the aerobic zone after being pumped and pressurized by the water supply pump. The hydraulic retention time of sewage in the anoxic zone is about 4 hours. In the hypoxia zone, OitaLong chains of subfractions are decomposed into small molecules of organic matter that are easily biodegradable. The water from the anoxic area enters into the aerobic area through the connecting port between the anoxic pool and the aerobic pool. An aeration device is laid at the bottom of the aerobic area. Uninterrupted aeration, sewage in this tank for organic biological degradation, removal of BOD and COD in the water. Behind the aerobic zone is the membrane zone. The aeration device in the membrane zone performs two functions, namely the gas-water oscillation of the membrane. Clean, keep the membrane surface clean, and continue the aerobic biodegradation in this section. The water treated by biodegradation passes through the membrane module under the action of vacuum pump and filtrate cleaning pump, and the filtrate passes through the membrane module set. The water pipe collects into the clean water/backwash sink. Due to the high efficiency of membrane interception, all the bacteria were intercepted in the membrane bioreactor, which could effectively intercept the nitrifying bacteria, make the nitrification reaction proceed smoothly and effectively remove Ammonia nitrogen; At the same time, the macromolecular organic matter which is difficult to be degraded can be retained, and its residence time in the reactor can be prolonged so that it can be degraded to the maximum extent. The film assembly is installed in the upper part of the pool and the lower part of the film is set. Intermittent air punch is provided with regular purging of the vibrating diaphragm to keep the membrane surface clean and to relieve the accumulation of sludge concentration around the membrane assembly. There are 2 reflux pumps in the inlet and reflow section. Aerobic pool and anoxic pool between the continuous circulation. The concentration of activated sludge in the system can be directly controlled by regularly discharging the residual sludge from the aerobic sludge pump.



## ► Characteristics of the enterprise

- The production equipment is all imported from Germany and Italy in the 1990s leading level of professional woodworking machinery, one-time molding process, to ensure the processing accuracy, high production efficiency, especially suitable for mass production;
- Professional design and production of national standards in the field of disinfection and sterilization products;
- Strong production capacity, the company now has two modern production lines from Germany and Italy.
- The raw and auxiliary materials and supporting hardware are all selected from domestic high-quality products and imported famous brand products to ensure the internal quality of products;

In recent years, the company has undertaken a large number of disinfection supply center product design and manufacturing engineering, so that the company has from design to production to installation to mature service engineering operation capacity.

**Design** - Fully consider your requirements and site space, shape, safety, convenience, and project budget. The CAD computer drawing system will issue the design drawing and the detailed specification of the furniture, and we will provide it for you. For more intuitive and professional product suggestions and layout plan.

**Production** - advanced equipment, technology, high quality materials, strict quality management, close to the harsh operating standards of the process, we can guarantee to provide you with assured products.



Electric transmission window



Medical lavabo

- 😊 With our professional - we will cast more quality equipment!
- 😊 With our innovation - we will lead the industry forward!
- 😊 With our strength - we will give you satisfactory service!
- 😊 With our faith - we will create a better tomorrow!