PRODUCT CATALOGUE

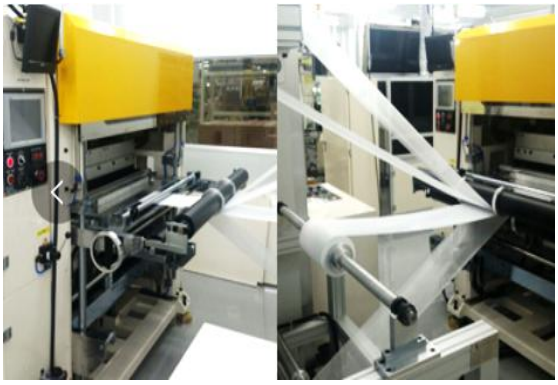
www.youthfilter.com
2022

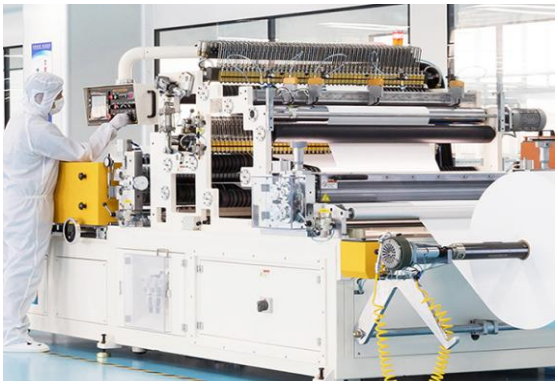
About Us

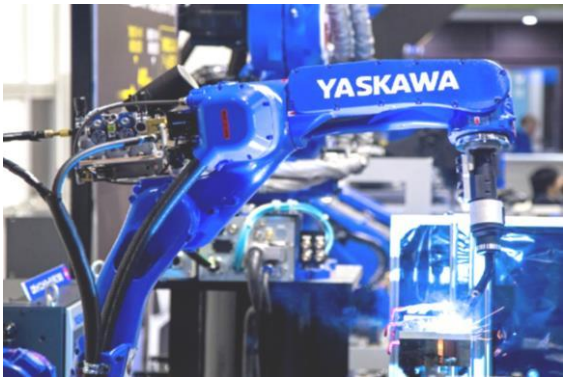
Youthtech specialize in cleanroom filtration solutions to meet a variety of applications and industries. We offer a broad range of high-quality filters, cleanroom equipment and lab furniture to meet the needs of applications from Class 100,000 to Class 10.

At Youthtech, you will find the ultimate products with excellent cost-effective, not the cheapest but the most appropriate investment cost to meet your reliable operation, long lasting and high-quality requirements.

Our technical knowledge and more than 24 years' experience endow us the ability of providing tailor-made and integrated services and solutions for you.



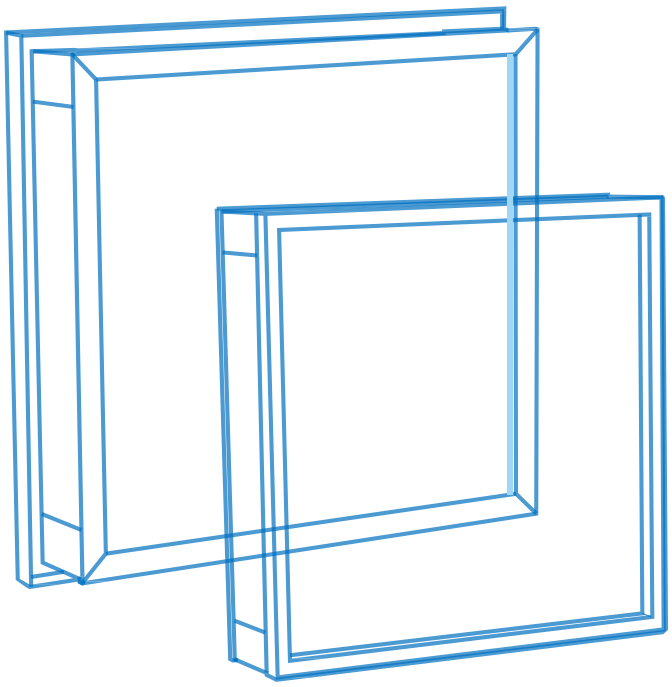


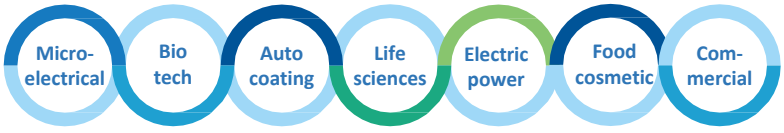


Catalogue:

Catalogue

AIR FILTER

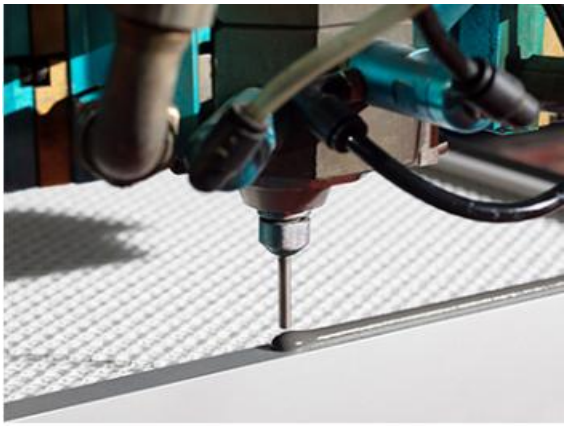




Air filters are widely used in industries and sectors that require air purification, such as microelectronics, biomedicine, automotive coating, life sciences, nuclear power, food, cosmetic, commercial construction, national defense, scientific research, etc.

Samsung mini-pleat production line for HEPA/ULPA

MPPS test machine
According to EN1822



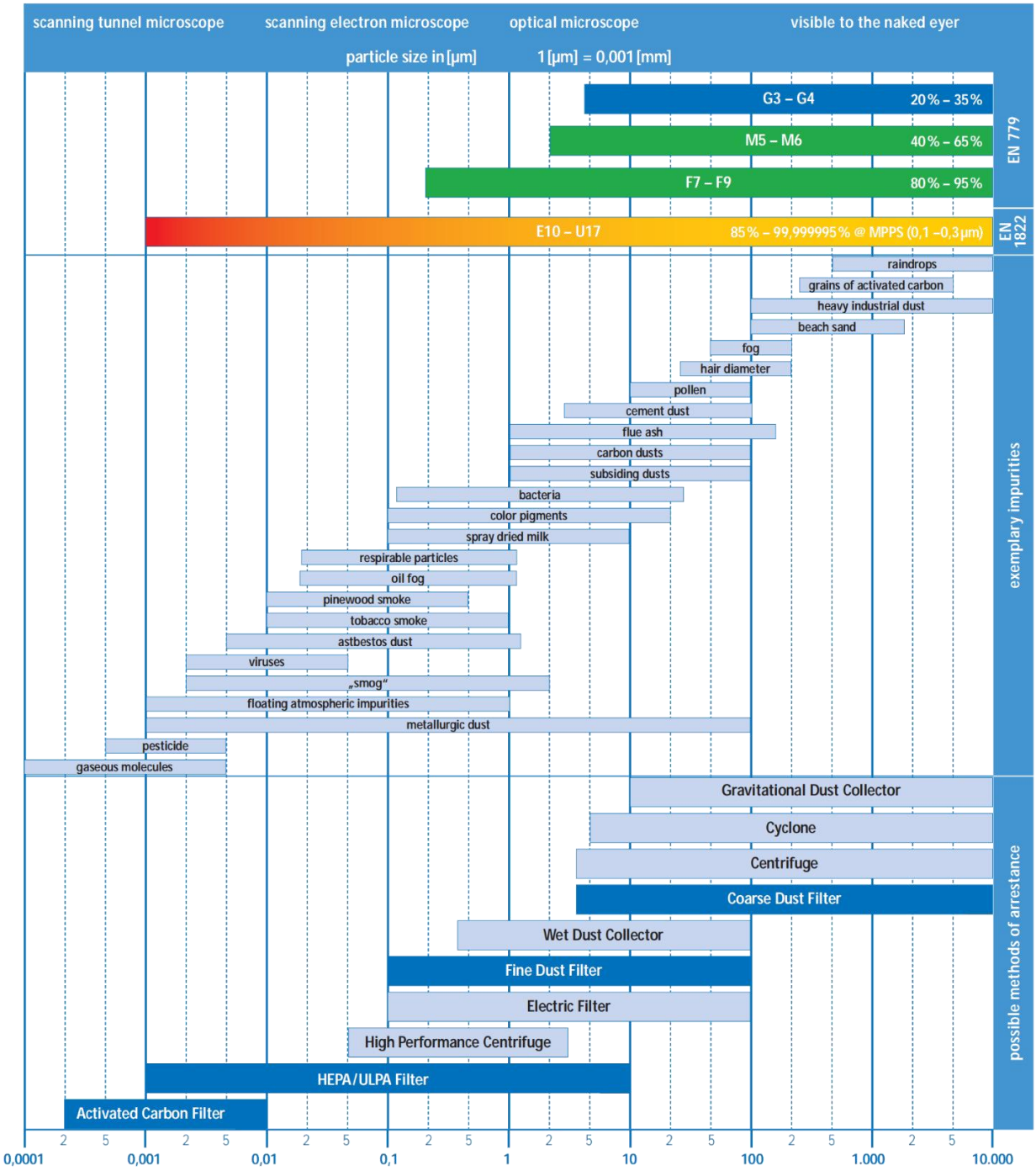
Endless form gasket

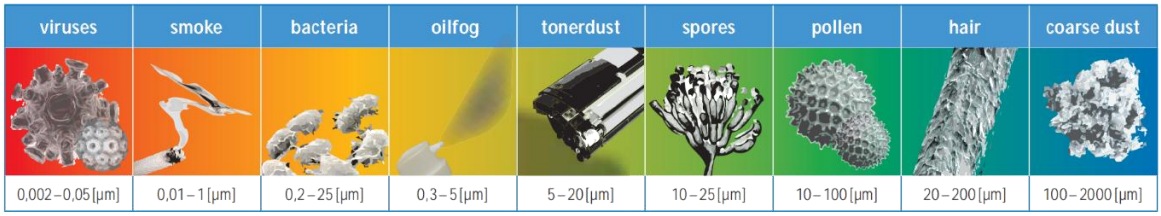
Welding production line for pre-filer

Assembly line

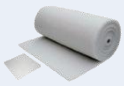
Packing area

Particle Size & Filtration Systems

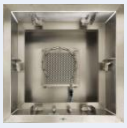




Filter Types & Areas of Application

	Type	Model	Class EN779 /EN1822	Form of delivery D= depth in [mm]	Areas of application	Note
Filter Pad		FP	G2/G3/G 4	rolled media	pre-filtration media for HVAC & other ventilation systems, particularly for coarse dust arrestance or as a prefilter stage.	washable synthetic fiber polyester filter mat
Cardboard Filter		CF	G3/G4	panel filter D = 24 panel filter D = 48	pre-filter cell for ventilation systems, supply air within industrial machines etc. These filters offer low differential pressure as well as a high degree of coarse dust adsorbtion.	filter frame: cardboard
Carbon Filter		TF	G3-H14	customized	added modified activated carbon or other chemical particles with strong adsorptive property to remove harmful gases in the air, suitable for commercial HVAC system	Filter type: panel, cylinder cartridge
Panel Filter		PF	G3/G4	panel filter D = 48 panel filter D = 96	standard primary filter or main filter for various equipment, HVAC and other ventilation systems, etc. standard primary or main filter for HVAC, or other ventilation systems, offers more filter surface and therefore a higher flow rate due to the zig-zag folds of the filter media.	filter frame: GI/AL
Bag Filter		BF	G3/G4/M 5	bag filter element D= 100 to 700	prefilter for HVAC and other ventilation systems as well as industrial applications with a high amount of coarse dust production; qualitatively better pre-filter for HVAC and ventilation systems with a high amount of coarse dust production	filter frame: ABS/GI/AL
Bag Filter		BF	M6/F7	bag filter element D= 150 to 700	ideal pre-filter for HVAC and other ventilation systems; highly efficient for absorbing fine dusts pre-filter for industrial applications with a high demand on clean supply air main filter for applications with low demands on the air quality / fine dust removal	filter frame: ABS/GI/AL M6: green color
Bag Filter		BF	F8/F9	bag filter element D= 150 to 700	standardized main-filter for HVAC & other ventilation systems prefilter for HEPA /ULPA filtration areas, highly efficient for fine dust extraction; main filter for comfort HVAC.	filter frame: GI/AL

Filter Types & Areas of Application

	Type	Model	Class EN779 /EN1822	Form of delivery D= depth in [mm]	Areas of application	Note
V-bank		VS	M6-H14	2V-5V sharped cassette D=292 25mm flange	M6-F9 Compact pre- or main filter for HVAC & other ventilation systems as well as industrial and turbine units H13-H14 HEPA-Filter for clean rooms, ventilation systems and industrial processes to remove oil mist	filter frame: ABS/GI
V-bank		VB	M6-H14	2V-5V sharped cassette D=292	same area of application as V-sharp, however applicable for higher flow rates	filter frame: ABS/GI/AL
Separator Filter		SH	F7-H14	T=150/292 aluminum/paper separator	M6-F9 pre- and main filter for industrial processes H13-H14 HEPA-Filter for industrial and pharmaceutical processes burst pressure >15 [kPa] or specific options like electro static grounding, FDA	filter frame: ABS/GI/AL SIngle/ double header/ turn flange
Separator Filter		HT	H13-U16	T=150/292 aluminum separator	HEPA/ULPA equipped to meet temperatures up to 300 degree Celsius	filter frame: SS304/316
HEPA/ULPA		MP	H13-U16	minipleated PU gasket D=50/65/70/80/ 90/100	Standard HEPA/ULPA filter for industrial processes, clean rooms, ventilation systems in hospitals etc. Knife edge style especially applied on electric clean rooms	filter frame: AL
HEPA/ULPA		MP	H13-U16	minipleated gel seal D=65/93/120 (side seal) D=64/72/94/104 (top seal)	same area of application as regular HEPA but with better sealing performance	filter frame: AL
HEPA BOX		HB	match HEPA H13-U16	customized	including SS dust apply hollow ring, DOP supply / test port	frame: cold steel Al alloy Stainless steel

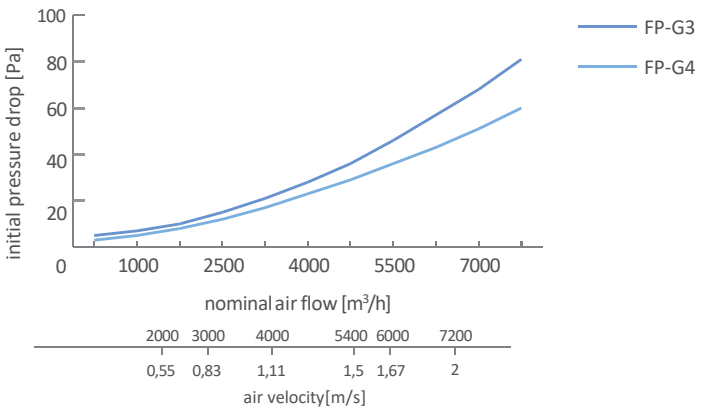
Filter Pad

Coarse Filter pad with low initial resistance and large dust holding capacity is an ideal media for air conditioning or making pre filters such as panel filter or bag filter.
It is mainly used to filter and remove ≥5μm dust particles in air conditioning system for the automotive the spray workshop, stoving varnish room, the operating system of the household appliances painting.
Available in pre-cut pad sizes.

Standard Size & Performace Parameters

Type:	FP-G2	FP-G3	FP-G4
Class EN779	G2	G3	G4
Efficiency against synthetic dust [%]	75%	85%	91%
Initial-ΔP [Pa]	30	30	38
Recommended finalΔP [Pa]	250	250	250
Max. temp. [°C]	100°	100°	100°

Model	Dimensions [mm]			air velocity (m/s)	Nominal airflow (m^3/h)	Dust hold capacity
	Length	Width	Thickness			
FP20-G2	200	10/20	10±2	2.0	7200	400g/m^3
FP30-G3	200	10/20	15±2	1.5	5400	500g/m^3
FP40-G4	200	10/20	20±2	1.0	3600	600g/m^3
Please ask for other desired designs.						



Techniques	▪ needle punching ▪ Adhensive ▪ thermo-adhesion
Colors	Blue/green/white/black
Flame retardane	Fire production UL2

Filter Pad

Ceiling filter media pad use several different specifications of non-silicon synthetic fibre, which take the technology of carding, lapping, thermal shaping and post processing etc.
The product has progressively structure and polyester reinforcement scrim or fiberglass mess adhesive on the air outlet which not only improve the filter media strength and stiffness, but also ensure that fibres do not fall off. Layered evenly, while increasing the accuracy of filter.
High temperature resistance can be reached 100°C.

Standard Size & Performace Parameters

Model	Efficiency	Initial-ΔP [Pa]	finalΔP [Pa]	Nominal airflow [m3/h]	Air velocity	Dust hold capacity (g/m²)
FP-C-560	F5	25	450	900	0.25	450
FP-C-660	F5	39	450	900	0.25	480
Please ask for other desired designs.						

Material	Polyester fiber
Flame retardant	Fire production DIN53438-F1 and UL900-Class2
Standard Size (m)	2x20, 2x22, 1.6x22

The fiber glass paint arrestor is an environmental filter with green and white color, the density is increased orderly and the bottom density is the largest. It is able to prevent the short fiber spread, to collect the
dissociative particles and to protect the air circulation system and the ceiling filtration systems.
It is mainly used to absorb the over dissociative particles and decrease the pollution.
High temperature resistance can be reached 170°C.

Model	Thickness (mm)	Initial-ΔP [Pa]			Efficiency against synthetic dust [%]			Dust hold capacity (g/m²)
		1.3 m/s	2.6 m/s	3.9 m/s	≧2μm	≧5μm	≧10μm	
FP-A-50	50	15	30	45	35	70	93	1850
FP-A-60	60	20	35	50	40	75	95	2100
FP-A-100	100	25	40	60	60	80	98	3200
Please ask for other desired designs.								

Flame retardant	DIN53438-F1
Average paint mist capture rate	93-97%
Standard Size (m)	0.7 / 0.75 / 0.8 / 1 / 1.2 / 1.5 / 2×20m

Cardboard Filter

Cardboard Filters are usually for prefiltration in ventilation and air-conditioning units, and in intake air systems and lines, so as to extend the operational lifetimes of the downsteams fine filters. The entire filter element contains no metal, and it therefore non-corroding and fully incinerable.

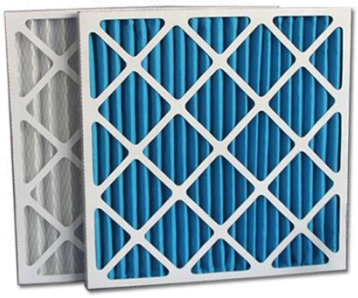
Standard Size & Performace Parameters

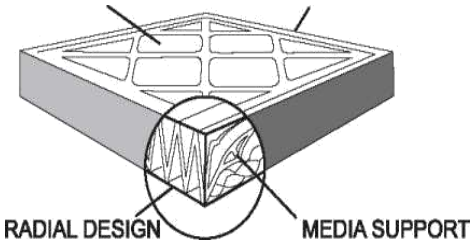
Type:	CF-G3	CF-G4
Class EN779	G3	G4
Efficiency (synthetic dust)	86%	91 %
Efficiency (atmospheric dust)	30%	40 %
Nominal air flow [$m^3/h \times m^2$]	9500	9500
Initial-ΔP [Pa]	35	55
Recommended final ΔP [Pa]	200	250
Temp. resistance [°C]	65°	65°

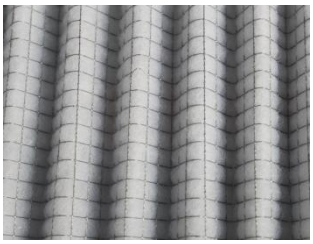
Model (E=efficiency)	Dimensions [mm]			Nominal airflow [m^3/h]
	Width	Height	Depth	
CF28759246-E (G3/G4)	287	592	46	1700
CF59259246-E (G3/G4)	592	592	46	3400

Please ask for other desired designs.

Product Details







Panel Filter

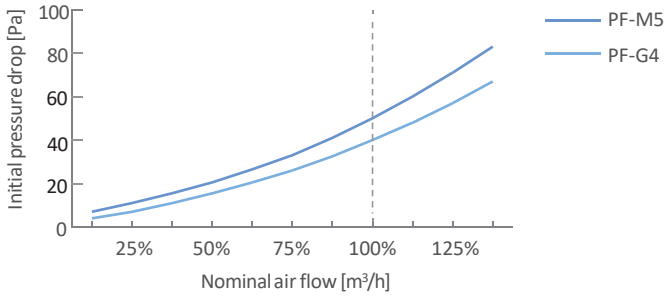
Panel filter with compact construction, small volume, light weight and ease to be purged, assembled and removed, may be installed separately or laminated in front of bag filter. Panel filter is mainly used to filter and remove ≥5μm dust particles in air conditioning system, protect the fine filter and prolong its service life. The ordinary panel filter size is 592×592.

Standard Size & Performace Parameters

Type:	PF-G4	PF-M5
Class EN779	G4	M5
Efficiency against synthetic dust [%]	91%	97%
Initial-ΔP [Pa]	25	60
Recommended finalΔP [Pa]	250	400
Max. temp. [°C]	70°	70°

Model (E=efficiency)	Dimensions [mm]			Nominal airoflw [m³/h]
	Width	Height	Depth	
PF28759246-E (G4/M5)	287	592	46	1600
PF28759246-E (G4/M5)	592	592	46	3200

Note: We can also produce non-standard filters of 150≤W≤1184,150≤H≤1184 and 10≤D≤292.



Frame	▪ galv. steel ▪ Aluminum
Operational conditions	max. rel. h. 100%, max. temp. 80°C
Options	Formed gasket (single / double side) EPDM gasket

Bag Filter - Coarse and Medium Dust

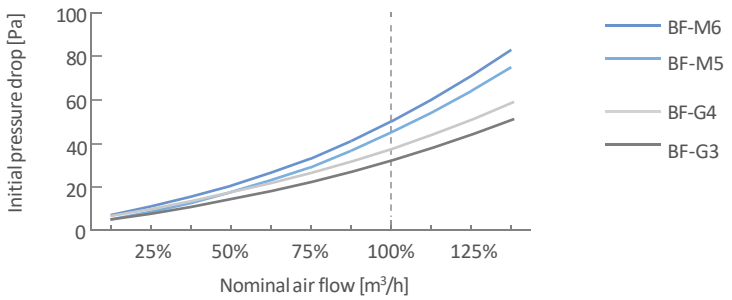
Bag coarse filter is mainly used to filter and remove ≥5μm dust particles in air conditioning system. The ordinary flat filter is 592×592, provided with 3-12 parallel bags, bag depth generally ranging from 250~900mm. Ultasound welding spacers between individual bags ensure an even airflow throughout the filter, which allows dust loading and even distribution. This results in a long service life of the filter and reduces energy costs. The bag can be provided with separation fence inside to effectively increase the filtration area.

Standard Size & Performace Parameters

Type:	BF-G3	BF-G4	BF-M5	BF-M6
Class EN779	G3	G4	M5	M6
Arrestance EN779 [%]	>86%	>91%	>96%	>98%
Efficiency EN779 [%]	>25%	>35%	>55%	>65%
Initial-ΔP [Pa] at nominal air flow	30	35	45	50

Model (E=efficiency)	Dimensions [mm]		Nominal air flow [m³/h]			Pockets quantity
	Width	Height	Depth 200 [mm]	Depth 360 [mm]	Depth 500 [mm]	
BF592592D-E (G3/G4)	592	592	1900	3400	4700	6
BF287592D-E (G3/G4)	490	592	1600	2800	4000	5
BF287287D-E (G3/G4)	287	592	900	1700	2300	3
BF592592D-E (M5/M6)	287	287	500	950	1300	3
BF287592D-E (M5/M6)	592	892	2700	4900	6000	6
BF287287D-E (M5/M6)	287	892	1400	2400	3000	3

Please ask for other desired designs.Bag quantity is available from 1-12



Frame	▪ galv. steel ▪ Aluminum
Operational conditions	max. rel. h. 100 %, max. temp. 70°C
Filtermedia	▪ Progressive synthetic fibre ▪ Microfibre meltblown (M6 green clour)
Options	▪ Various customized sizes ▪ foamed gasket onto front frame

Bag Filter - Fine Dust

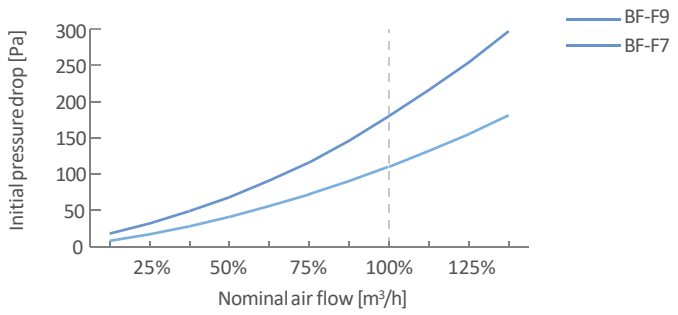
Bag fine filter is mainly used to filter and remove ≥1μm dust particles in air conditioning system, protect the subsequent sub-high efficiency or high efficiency filter and prolong their service life. Based on different filter performance requirements, the filter media of bag filter may be multi-layer compound synthetic fiber bucket materials, synthetic fiber non-woven fabrics of different thicknesses, glass fiber cotton, etc. The efficiency stays constant even with varying airflows. Also, the bags are intrinsically stiff while being exposed to the airstream. Inrder to guarantee a proper stability even with over-size filters.

Standard Size & Performace Parameters

Type:	BF-F7	BF-F8	BF-F9
Class EN779	F7	F8	F9
Average efficiency (Em) for 0.4μm particles	80% ≤ Em < 90%	90% ≤ Em < 95%	95% ≤ Em
Initial-ΔP [Pa] at nominal air flow	110	120	185

Model (D=depth/E=efficiency)	Dimension [mm]		Nominal air flow [m³/h]			Pockets quantity
	Width	Height	Depth 300 [mm]	Depth 500 [mm]	Depth 650 [mm]	
BF592592D-E (F7-F9)	592	592	1570	2620	3400	8
BF490592D-E (F7-F9)	490	592	1300	2160	2800	6
BF287592D-E (F7-F9)	287	592	790	1210	1700	4
BF287287D-E (F7-F9)	287	287	400	660	850	4
BF592892D-E (F7-F9)	592	892	2360	3930	5100	8
BF287892D-E (F7-F9)	287	892	1180	1970	2550	4

Please ask for other desired designs. Bag quantity available from 1-12.



Frame	▪ galv. Steel ▪ Aluminum
Operational conditions	max. rel. h. 100 %, max. temp. 70°C
Filtermedia	▪ Progressive synthetic fibre ▪ Glassfiber
Options	▪ Varioussizes and shapes ▪ foamed gasket onto front frame

V-bank Medium Filter

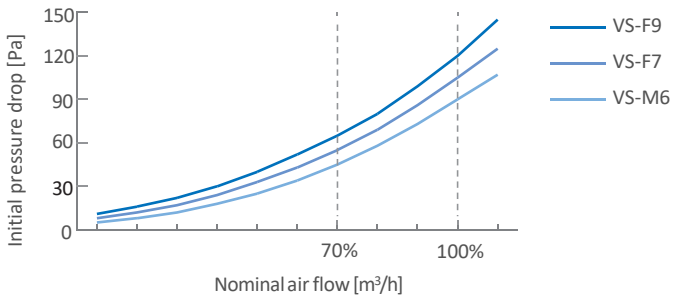
V-bank filters have been developed specifically for intake, exhaust and recirculated air filtration in HVAC systems posing stringent requirements for clean air quality and cost-efficiency. Efficiency from M5 to H14 can be made in V-bank form.
The medium efficiency V-bank filters serve as pre- or main-filtration elements for environments with voluminous airstreams and/or when long lifespan is necessary. The rigid and corrosion resistant plastic frame ensures easy disposal of the used filter because it is totally combustible.Existing bag filter stages can be easily upgraded by exchange due to the fact that V-bank filter fit into standard bag filter mounting frames.

Standard Size & Performace Parameters

Type:	VS-M6	VS-F7	VS-F9
Class EN779	M6	F7	F9
Efficiency EN779 [%]	65 %	85 %	95 %
Initial-ΔP[Pa](A/B)	65 / 120	75 / 140	85 / 165
Recc. finalΔP	600	600	600
Max. temp. [°C]	65°	65°	65°

Model (E=efficiency N=V quantity)	Width	Height	Depth	Nominal airoflw [m³/h]	V quantity
VS592592292-E (M6-F9) N5	592	592	292	3000	5
VS592592292-E (M6-F9) N4	490	592	292	2400	4
VS287592292-E (M6-F9) N4	287	592	292	1200	4

Please ask for other desired designs. V quantity is available from 2-5v.



Frame	corrosion resistant plastic
Operational conditions	▪max. rel. h.100 [%] ▪max. temp. 65 [°C], short term peak up to max. 80 [°C]
Spacers	thermoplastic (minipleat)
Filtermedia	high quality glass fibre paper (water resistant), pressure drop may temporarily increase at high humidity levels
Combustible	Yes
Options	▪ burst protector / protection screen ▪foamed gasket on theclean air side of the flange ▪V quantity is available from 2-5v

V-bank HEPA Filter

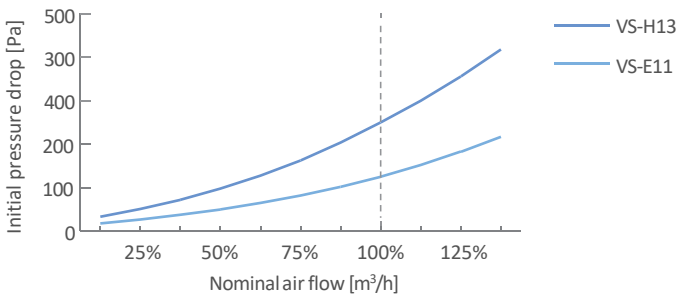
V-bank HEPA filter ideally suit as main filter stage where high air flow rates and maximum efficiency are required, for the removal of particles, toxic dusts or aerosols from the exhaust or supply air flows.
The media is water-repellent and therefore usable within air flows of high humidity.
The air entry profiles are aerodynamically shaped to reduce the pressure drop at high flow rates.
The filter frame offers maximum rigidity and is corrosion free.Existing bag filter stages can be easily upgraded by exchange due to the fact that V-bank filter fit into standard bag filter mounting frames.

Standard Size & Performace Parameters

Type:	VS-E11	VS-H13	VS-H14
Class EN1822	E11	H13	H14
Efficiency EN1822@ MPPS [%]	>95 %	>99,95 %	>99.995%
Initial-ΔP[Pa] at nominal airflow	125	250	250
Rec. final pressure drop [Pa]	600	600	600
Max. temp. [°C]	65°	65°	65°

Model (E=efficiency N=V quantity)	Width	Height	Depth	Nominal airflow [m³/h]	V quantity
VS592592292-E (E11-H14) N5	592	592	292	3000	5
VS592592292-E (E11-H14) N4	490	592	292	2400	4
VS287592292-E (E11-H14) N4	287	592	292	1200	4

Please ask for other desired designs. V quantity is available from 2-5v.



Frame	corrosion resistant plastic
Operational conditions	▪max. rel. h.100 [%] ▪max. temp. 65 [°C], short term peak up to max. 80 [°C]
Spacers	thermoplastic (minipleat)
Filtermedia	high quality glass fibre paper (water resistant), pressure drop may temporarily increase at high humidity levels
Combustible	Yes
Options	▪ burst protector / protection screen ▪foamed gasket on theclean air side of the flange ▪V quantity is available from 2-5v

V-bank Medium Filter - Box type

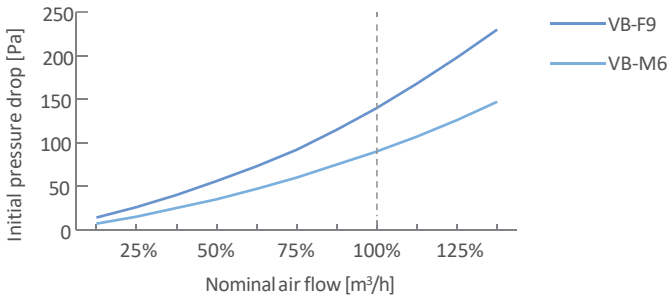
V-bank box type high volumn flow filters are used in intake, exhaust and recirculated air filtration in HVAC systems or air conditioning systems with ultra-stringent requirements for clean air quality and sterility.
Maximum effective media area provides greater airflow capacity, low resistance, high dust holding capacity, and unusually long service life.
The V-bank configuration provides greater airflow capacity and longer service life, while lowering operating costs.

Standard Size & Performace Parameters

Type:	VB-M6	VB-F7	VB-F9
Class EN779	M6	F7	F9
Efficiency EN779 [%]	>65 %	>85 %	>95 %
Inirial-ΔP [Pa] at nominal air flow	90	110	130
Max. temp. [°C]	80	80	80

Model (E=efficiency N=V quantity)	Width	Height	Depth	Nominal airoflw [m³/h]	V quantity
VB592592292-E (M6-F9) N5	592	592	292	3400	5
VB592592292-E (M6-F9) N4	490	592	292	2800	4
VB287592292-E (M6-F9) N4	287	592	292	1700	4

Please ask for other desired designs. V quantity is available from 2-5v.



Frame	▪galv. steel ▪stainless
Spacers	glass fibrestrings
Filtermedia	high quality glass fibre paper (water resistant)
Options	foamed gasket on the inlet air side

V-bank HEPA Filter - Box Type

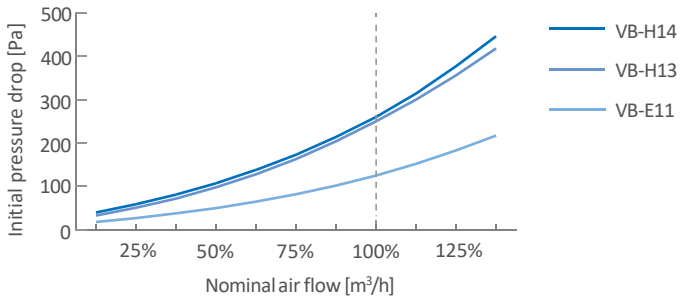
V-bank box type HEPA filters use sub-micron glass fibers formed into a high-density paper.
Glass filament separators are used to form the media into mini-pleat panels that withstand high-velocity airflow.
Mini-pleat packs are sealed to the frame with two-component polyurethane to increase rigidity and prevent bypass leakage.

Standard Size & Performace Parameters

Type:	VB-E11	VB-H13	VB-H14
Class EN1822	E11	H13	H14
Efficiency EN1822@ MPPS [%]	>95 %	>99,95 %	>99,995 %
Initial-ΔP[Pa]at nominal airflow	125	220	250
Rec. final pressure drop [Pa]	600	600	600
Max. temp. [°C]	80°	80°	80°

Model (E=efficiency N=V quantity)	Width	Height	Depth	Nominal airoflw [m³/h]	V quantity
VS592592292-E (E11-H14) N5	592	592	292	3400	5
VS592592292-E (E11-H14) N4	490	592	292	2800	4
VS287592292-E (E11-H14) N4	287	592	292	1700	4

Please ask for other desired designs. V quantity is available from 2-5v.



Frame	▪galv. steel ▪stainless
Spacers	glass fibrestrings
Filtermedia	high quality glass fibre paper (water resistant)
Options	foamed gasket on the inlet air side

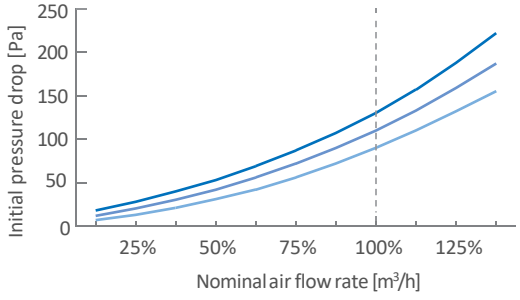
Separator Filter - Medium

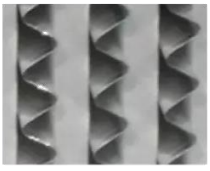
Separator medium filters are suitable as pre- or main filtration element in systems to meet demands for high loads and extended temperature ranges. The high-quality media is laid out in narrow parallel pleats, and fixed evenly by spacers made from corrugated aluminum foil. Maximum effective media area provides greater airflow capacity, low resistance, high dust holding capacity, and long service life.

Standard Size & Performace Parameters

Type:	SF-M6	SF-F7	SF-F9
Class EN779	M6	F7	F9
Efficiency EN779 [%]	65 %	85 %	95 %
Initial-ΔP[Pa]at nominal airflow	90	110	130
Max. temp. [°C]	120°	120°	120°

Frame	▪ galv. steel ▪ stainless ▪ aluminium
Operational conditions	▪ max. rel. h. 100 [%] temperature resistance max. 120 [°C]
Spacers	corrugated aluminium, optional: stainless, paper
Filtermedia	high quality glass fibre paper (water resistant)
Options	▪ burst- and protection screens (single or both sides) ▪ more filtermedia for higher airflows ▪ Single/double header, single/double flanges,handles ▪ gasket on both sides ▪ dedustable filtermedia





Separators

Wedge Shaped Pleats

Separator Filter - HEPA/ULPA

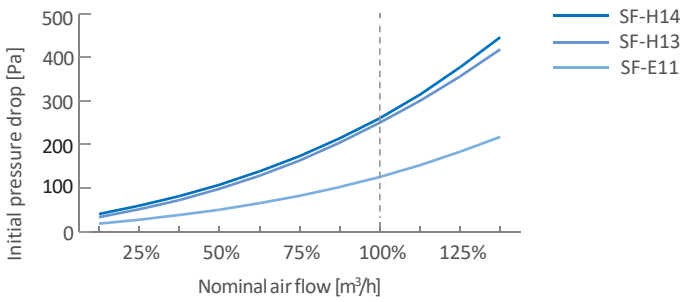
Seperator HEPA/ULPA filter can bear a high mechanical load capacity and may be used to filter SSpended matter such as viruses, germs, toxic dusts, aerosols as well as in environments requiring a virtually sterile or dust-free air.
Separator filters are designed to meet demands for high loads and extended temperature ranges up to 280℃, can meet particular stringent requirements for air purify, usually used in recirculating air equipment of drying processes in the automotive or pharmaceutical industry, process dependability and cost-efficiency.

Standard Size & Performace Parameters

Type:	SF-E11	SF-H13	SF-H14
Class EN1822	E11	H13	H14
Efficiency EN1822@ MPPS [%]	95%	99.95%	99.995%
Initial-ΔP[Pa]at nominal airflow	125	250	260
Max. temp. [°C]	120°/opt.280°	120°/opt.280°	120°/opt.280°

Model (E=efficiency)	Width	Height	Depth	Nominal airoflw [m³/h]
SF610610150-E (E11-H14)	610	610	150	1200
SF762610150-E (E11-H14)	762	610	150	1500
SF820610150-E (E11-H14)	820	610	150	1600
SF320320220-E (E11-H14)	320	320	220	400
SF484484220-E (E11-H14)	484	484	220	1000
SF630630220-E (E11-H14)	630	630	220	1600
SF1260630220-E (E11-H14)	1260	630	220	3200
SF592592292-E (E11-H14)	592	592	292	2000
SF610610292-E (E11-H14)	610	610	292	2100

Please ask for other desired designs.



MiniPleat HEPA / ULPA Filter

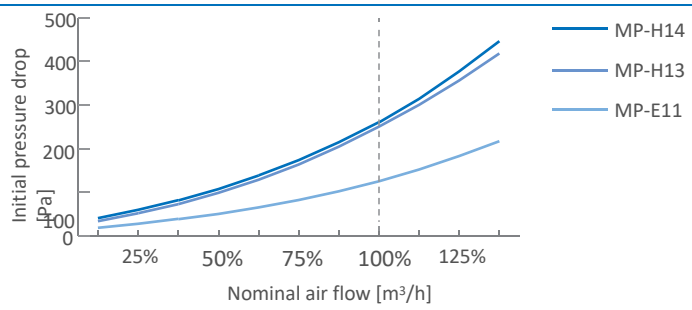
MiniPleat HEPA/ULPA are used in intake and recirculating air filtration for cleanrooms and in laminar flow hoods with ultra-stringent requirements for clean air and sterility. The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
Available in all dimensions commonly encountered on the market.

Standard Size & Performace Parameters

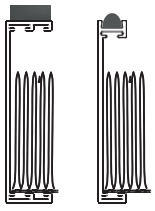
Type:	MP-E11	MP-H13	MP-H14	MP-U15
Class EN1822	E11	H13	H14	U15
Efficiency EN1822@ MPPS [%]	>95 %	>99,95 %	>99,995 %	>99,9995 %
Initial-ΔP[Pa]at nominal airflow	95	125	160	250
Rec. final pressure drop [Pa]	200	300	350	450
Max. temp. [°C]	80°	80°	80°	80°

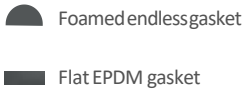
Model (E=efficiency)	Width	Height	Depth	Nominal airoflw [m³/h]
MP61061069-E (E11-U17)	610	610	69	1000
MP122061069-E (E11-U17)	1220	610	69	2000
MP117057070-E (E11-U17)	1170	570	70	1100
MP117087070-E (E11-U17)	1170	870	70	1750
MP1170117070-E (E11-U17)	1170	1170	70	2200

Please ask for other desired designs.



Frame	Aluminum
Separator	EVA
Filtermedia	high quality glass fibre paper (water resistant)
Options	▪ Foamed endless gasket (single / double side) ▪ Flat EPDM gasket ▪ Knife edge





Gel-seal MiniPleat HEPA / ULPA Filter

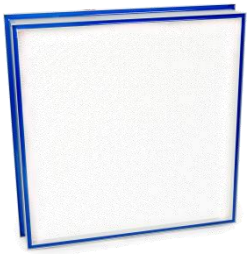
Gel-seal MiniPleat HEPA filters have the tank filled with gel, which is reliable and particularly suitable for workplaces for DOP test and leakage detection on site. This filters is mainly installed at the end of 0.5μm clean rooms and purifying equipment in pharmaceutical industry to control particulates larger than 0.5μm and microorganisms in the clean room or equipment operating areas. Gel seal mini-pleat HEPA filters have side seal type and top seal type for options.

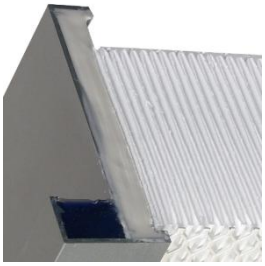
Standard Size & Performace Parameters

Model (E=efficiency)	Width	Height	Depth	Nominal airflow [m³/h]
MP41041093-E (E11-U17)	410	410	93	500
MP55055093-E (E11-U17)	550	550	93	1000
MP65065093-E (E11-U17)	650	650	93	1500
MP106055093-E (E11-U17)	1060	550	93	2000
MP370370104-E (E11-U17)	370	370	104	500
MP510510104-E (E11-U17)	510	510	104	1000
MP610610104-E (E11-U17)	610	610	104	1500
MP1020510104-E (E11-U17)	1020	510	104	2000

Please ask for other desired designs.

Frame	Aluminum
Separator	EVA
Filtermedia	high quality glass fibre paper (water resistant)
Options	▪ Side gel seal ▪ Top gel seal ▪ Double gel seal ▪ Gasket and gel seal





Carbon Filter Serials

Carbon non-woven fabrics: compounded by special production process with modified activated carbon filled in two layers of non-woven fabrics.

It can filter tiny particles in the air, pollen, bacteria, industrial waste gases and dust, etc., and prevent such substances from entering the air-conditioner to destroy the air-conditioning system and endangering human health in the vehicle.

Filter screens can effectively remove harmful substances such as PM2.5, formaldehyde and TVOC according to requirements of different applications.

Modified activated carbon: adsorb all harmful gases in air such as formaldehyde, ammonia, benzene, xylene, and chlorine, and quickly eliminate the ordor of decoration. The performance is several times that of ordinary activated carbon.

TVOC-removing particles: greatly reduce the concentration of TVOC, effectively control the harm of TVOC

Active potassium permanganate pellet: high removal efficiency for harmful gases such as hydrogen sulfide, sulfur dioxide, chlorine, formaldehyde, and nitric oxide.

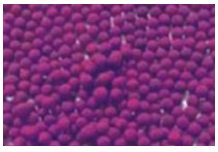
Nano mineral crystal particles: due to multiple pores, the sizes of pores of the nano mineral crystal are nano-scale, and the pore surface has polar characteristics. Comparing pores of the same number, it has a strong adsorption effect on polar gas compounds of nanoscale molecular size.

Coconut shell activated carbon: refined from high quality coconut shell by physical method. It has the characteristics of large surface area, high strength, uniform particle size, well-developed pore structure and strong adsorptive property.

- Customized efficiency and size





Auto-R-Machine

Auto-Roll-Machine automatic roller shutter filters are characterized by mature technology, flexible design, easy installation and easy control. This unit has low investment, low operating cost and high control precision, and fully meets various primary purification requirements. It is especially suitable for environments with large air volume and high air flow dust content.

Main Features
- Muti-module splicing design for easy transportation and installation High-quolity lotus pine filter
- High-quality fluffy filter material
- Intelligent control system

Efficiency Class: G3, G4 or M5

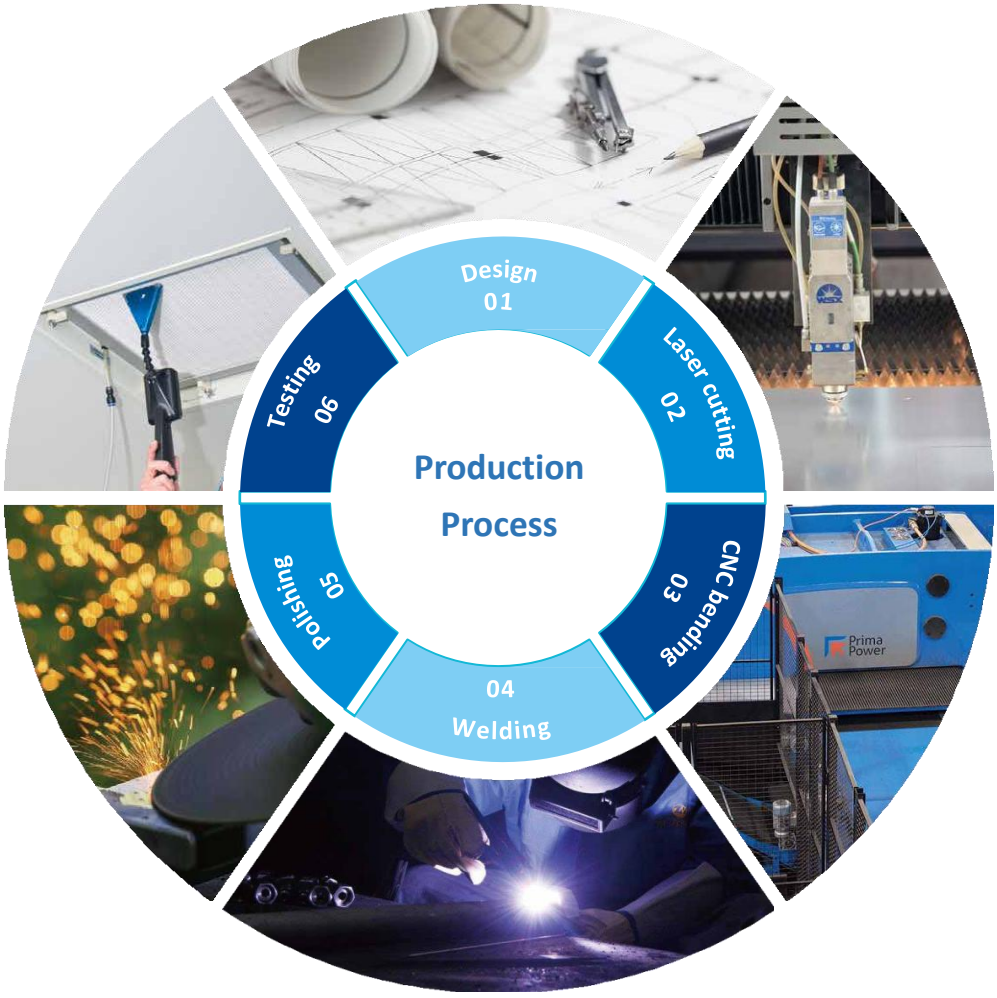
Standard Size & Performace Parameters

Rated air volume (m'/h)

High of Filter - Ft (mm)	Filter Width-Ft (mm)							
	11 (3353)	12(3658)	13(3962)	14(4267)	15(4572)	1 6(4877)	17(5182)	18(5486)
5 (1524)	30071	32882	35684	38495	41306	44116	46927	49729
6 (1829)	39028	42676	46312	49961	53609	57257	60905	64541
7 (2134)	47985	52471	56941	61426	65912	70397	74882	79353
8 (2438)	56913	62233	67535	72855	78175	83494	88814	94117
9 (2743)	65870	72027	78164	84321	90478	96635	102792	108929
10 (3048)	74827	81821	88792	95786	102781	109775	116769	123741
11 (3353)	83784	91615	99421	107252	115084	122915	130747	138553
12 (3658)	92740	101409	110049	118718	127387	136056	144724	153365

Frame	▪ SS304 ▪ cold rolled sheet
Top filter box Bottom Holder	▪ Fully sealed structure to ensure filter material is not contaminated ▪ Ensures dirty media is rewound and does not contaminate clean media
Control box	Differential pressure control device, optional photosensitive device control box
Power unit	Motor and reduction gear (1PH220V or 3PH380V)
Operating temperature	-10℃~40℃
Installation method	Vertical or horizontal

PURIFICATION EQUIPMENT



Certification for Equipment

ISO 9001

Certificate of Approval

Certificate No.: 10116Q17499R0S

Awarded to

Wuxi Youth Technology Limited

Organization Code Certificate No.:91320211MA1XDAWW2B
Add.:298 Fangcheng Road, Xinwu, Wuxi, Jiangsu, PRC 214000

Beijing ZhongLianTianRun Certification Center (ZLTR) certify that the Quality Management System of the above organization has been assessed and found to be in accordance with the requirements of the standard:
ISO9001: 2008

SCOPE OF CERTIFICATION/REGISTRATION
Stainless steel equipment, HPL furniture, air filter design, sales

This certificate is made valid when used with certification scopes and the requirements of applicable laws and regulations. These requirements include, but are not limited to, administrative permits, scopes of qualifications, and CCC requirements.
Subject to operation conditions in requirements conformity with Quality Management System,
This Certificate is valid for a period of three years only,
Date from:Nov23rd,2018 To:Nov14th,2020
The effectiveness of this Certificate shall be Validated by periodic surveillance audit of ZLTR for maintenance.
This certificate using the term to Nov14th,2019, please Nov14th,2019 to supervision or overdue certification audit, through the audit, the certificate invalid.
Information of this certificate can be found on the official website of Beijing Zhonglian Tianrun Certification center (http://www.zltr.com.cn)

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Beijing Zhongliantianrun Certification Center

ISO 9001

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CERTIFICATE

Certificat - Certificado- Сертификат - Zertifikat - 證書

1) **APPLICANT:** (who finally puts the product on the market)
Wuxi Youth Technology Limited
298 Fangcheng Road, Xinwu District, Wuxi, Jiangsu, China
2) **CERTIFICATE NO.:** ISETC.001820191220
FILE REFERENCE: AFETCF-MD/LVD/EMC
3) **ISET MARK:**

4) **CAUTION ABOUT CE MARKING** (Instruction for the Applicant who puts the product on the EU market):
The label of the CE Marking on the left side should be not less than 5mm height. CE Marking and EC Declaration of Conformity are duties for the manufacturer or its applicant who puts the product on the market. This one is responsible to start the CE marking and certification procedure as required by the legislation in force. Only for the products which are compulsorily included into specific Directives or Regulations will be necessary to appoint a Notified Body.
5) **TYPE OF PRODUCT:** Air Purification Equipment
MODEL(S): YT-FFU,YT-AS,YT-PB,YT-HB,YT-CB,YT-SB,YT-UFH,YT-TT
6) **LIST OF DIRECTIVES / REGULATIONS /STANDARDS** (as declared by the manufacturer itself)
Machinery Directive 2006/42/EC, Low Voltage Directive 2014/35/EU, Electromagnetic Compatibility 2014/30/EU
EN ISO 12100:2010, EN 60204-1:2018, EN 61000-6-1:2007, EN 61000-6-3:2007/A1:2011/AC:2012
7) **NOTE:** The applicant is aware about the contents and information included in the ModCOM04.06 Regulation for this type of Certificate that is considered totally accepted. The latest revision of the Regulation is available and can be downloaded from the website www.iset-italia.eu. This document is not referred to any evaluation that could be considered as included in the scope of the activities covered by the standard BS EN ISO/IEC 17065:2012 or European Regulation 765/2008.
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10) **SIGNATURE:** Li Zhang
(On behalf of the Legal representative)

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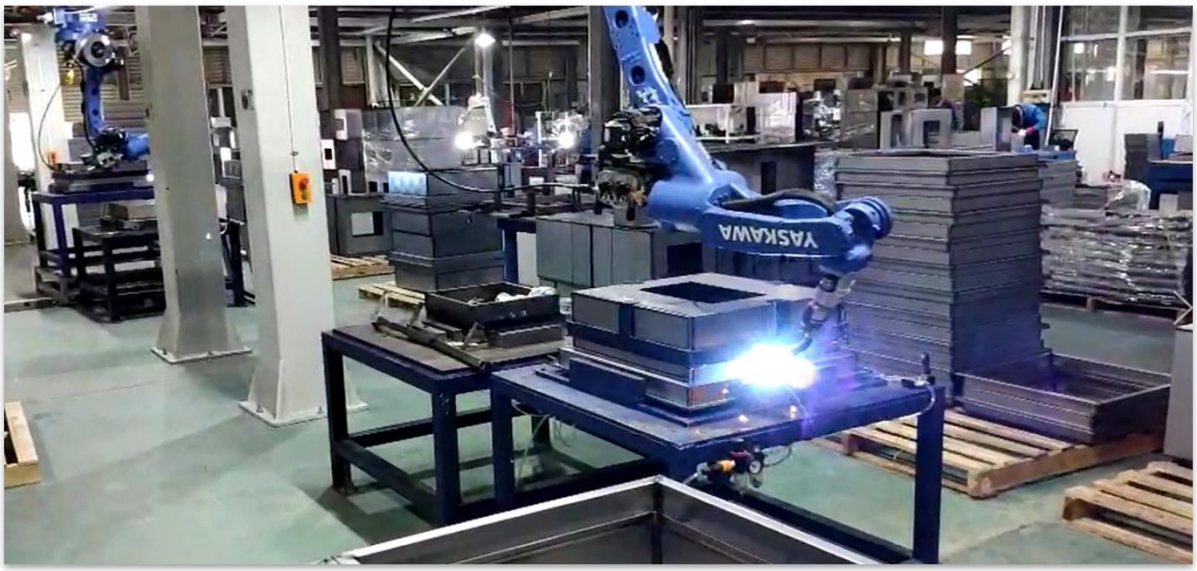


YASKAWA and ABB welding robots

Laser cutting machine

CNC bending machine

Degreasing, washing, surface conditioning, phosphating

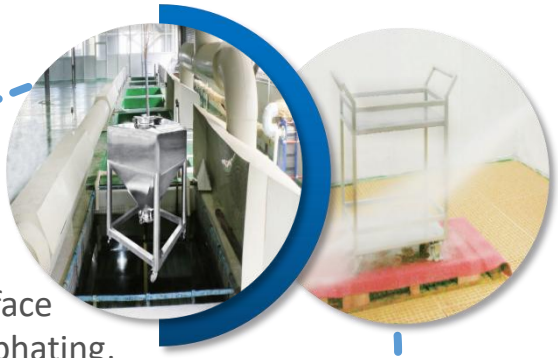
Electrostatic coating

01 Laser cutting

02 CNC bending

03 Polishing

04 Automatic
Laser/pulse welding



05 Degreasing, surface
conditioning, phosphating,
sand blasting (optional)

06
Electrostatic coating
(optional)

07 Bag filter production line

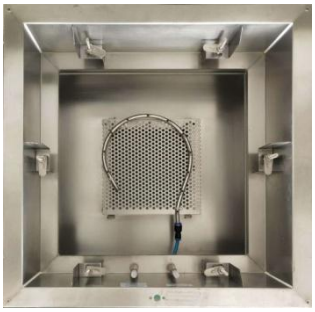
08 Bag filter riveting machine

09 Mini-pleat production line

10 HEPA filter gluing process

11 MPPS test machine according to EN1822

HEPA Box



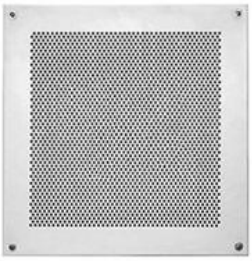
HEPA box, also called filter housing, is the ideal terminal filter device for air conditioning systems requiring purification to meet the cleanroom level. It can provide a desired static pressure before airing the HEPA, thus making the air outlet uniformity. We are extremely focused on the details of our products, making our HEPA box superior to the most products on the market.
We use one-piece bending design together with robort welding joint to ensure excellent leak-proof performance. Representative filter from each batch type and production run are subjected to a complete test flow evaluation to determine efficiency, pressure drop and dust holding capacity.
Airflow pipe can be connected directly through top access or side access with either circular or rectangular inlet.

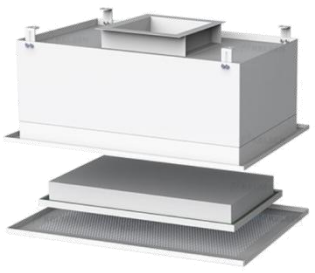
Standard Size & Performace Parameters

Model	HEPA Size (mm)	Box Size (mm)	Flange Size of Duct (mm)	Height of Box (mm)	Hole size (mm)
HB 500	410×410×93	460×460×250	200×200	500	470×470
HB 1000	550×550×93	600×600×250	320×200	1000	610×610
HB 1500	650×650×93	700×700×250	320×250	1500	710×710

Please ask for other desired designs.

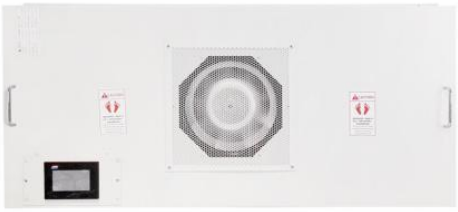
Frame	▪ Steel powder coated ▪ Aluminum ▪ SS304
Grille	▪ Perforated ▪ Louvers ▪ Swirl
Options	▪ Match gasket HEPA ▪ Match gel seal HEPA ▪ Top connected ▪ Side connected





FFU Fan-Filter Unit

FFU is the simplest purifying equipment consisting of blower and HEPA filter, and the most basic type in air purifying equipment. Due to the one-to-one correspondence between HEPA filter and blower, a negative pressure area is formed outside the unit case to enable negative pressure sealing function. FFU may be used separately or in combination to achieve higher cleanness easily. FFU makes the design of clean room easier and more reliable. FFU, characterized by low energy consumption, low noise and low operating cost, is widely applied to unidirectional flow and turbulent flow clean room and working station, unidirectional flow hood, clean booth and local purifying equipment in micro-electronics, electronics, optics, bioengineering and other industries.



Standard Size & Performace Parameters

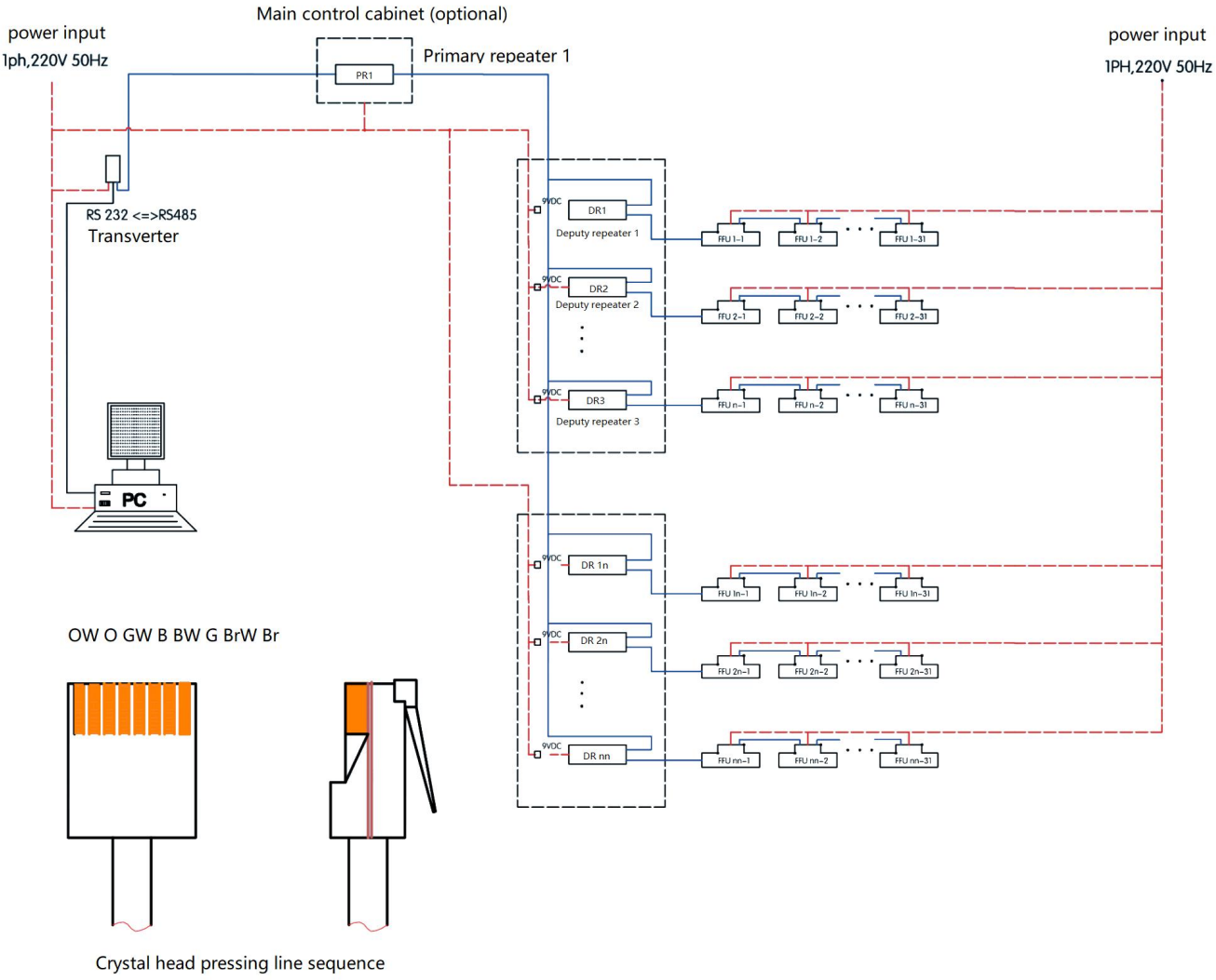
Model	External Dimension L×W×H	Air Volume (m^3/h)/ (m/s)	Initial resistance (Pa)		Noise (dB)	Power (kW)
			Efficiency (H14)0.3μm ≥99.995%	Efficiency (U15)0.1μm ≥99.9995%		
FFU10-11757	1170×570×350	1000/0.45	100	160	57	0.18
FFU15-11787	1170×870×350	1500/0.45			60	0.25
FFU20-117117	1170×1170×350	2000/0.45			63	0.37

Please ask for other desired designs

Frame	▪ Zinc Aluminized sheet ▪ SS
blower	DC/AC
Speed control	▪ Five speed control ▪ Stepless speed
Options	DOP test port

FFU Fan-Filter Unit

System control framework diagram



Crystal head pressing line sequence

Motor Technical differences

Items	Youth EC motor	Traditional motor
Rotor magnet	MQ one piece	Surface mount ferrite, EMB has 6pcs. Mount gap and megnet power will affect the efficiency
Drive technology	Sensorless	Hall-effect sensor, if sensor damaged, need to change the whole motor
Operation	Separate PCB from motor	Integrated, high hall-effect sendor defective rate
IP level	IP44	IP20
EDM protection	EDM protection / optional	No, shaft current will hurt bearing, cause motor defective
Motor efficiency	90%	80%

Class A Unidirectional Flow Hood

Class A unidirectional flow hood (UFH), also called **Laminar flow hood (LAF)** is a type of air purifying equipment providing Class A unidirectional flow and thus creating highly clean environment.

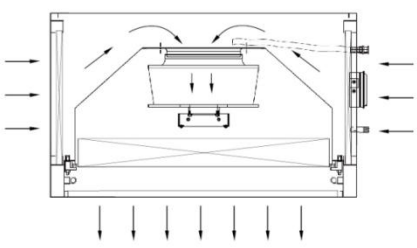
UFH is used for the protection of the filling / packaging operations of products that are sensitive to contamination, may be used separately or in combination. It can be designed to have independent air return system, or to connect with current duct.

Standard Size & Performace Parameters

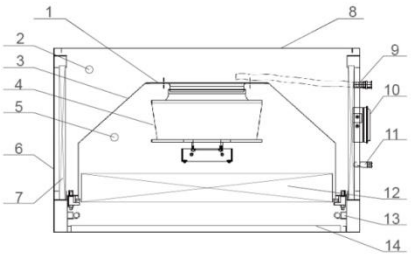
Model	External Dimension L×W×H	Internal Dimension L×W	Upstream Rated air velocity (m/s)	Working area clean class (grade)	Noise (dB)	Illumination (Lx)	Power (kW)
UFH-1260	1200×600×600	1200×600	0.45±20%	A	65	300	0.3
UFH-1010	1000×1000×600	1000×1000					0.45
UFH-1212	1200×1200×600	1200×1200					0.6
UFH-2010	2000×1000×600	2000×1000					0.9
UFH-2012	2000×1200×600	2000×1200					1.2
UFH-2020	2000×2000×600	2000×2000					1.8

Please ask for other desired designs.

Main Features	▪ Combination and modularization ▪ Less investment, quicker effects, easier installation, lower energy consumption ▪ Double negative pressure ▪ Flexible way to install ▪ High quality HEPA filter, high cleanness, ensure sterility ▪ Rich control module, meet different requirements
Options	▪ Hanging mount: hoisting or ceiling ▪ Floor stand ▪ Air supply from air duct ▪ Air supply by built-in blower



Schematic of Airflow



Schematic of Structure

1. Air deflector
2. Negative pressure plenum area
3. Inner frame
4. blower
5. Positive pressure plenum area
6. Return air orifice
7. Panel filter
8. Outer frame
9. DOP supply port
10. differential pressure gauge
11. DOP test port
12. Gel seal HEPA
13. Illumination
14. Polyester ceiling

Pass Box

Pass box include dynamic pass box and static pass box.

It is used for the transfer of materials / products between two areas of different classes.

The doors are interlocked by magnetic device and provide a buffer area for transferring material/product through the room with different class.

Provided with UV germicidal lamp, or ozone generator sterilization system based on the user's demand.

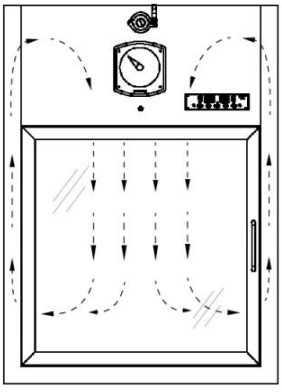
Standard Size & Performace Parameters

Model	External Dimension L×W×H	Internal Dimension W×D×H	clean class	Upstream Rated air velocity (m/s)	UV sterilizer (W)	Ozone Concentration (ppm)	Noise (dB)	Power (kW)
PB4-50	700×560×1000	500×500×500	A	0.45±20%	8	20~50	65	0.15
PB5-60	800×660×1100	600×600×600			15			0.15
PB6-70	1000×860×1300	800×800×800			15			0.15

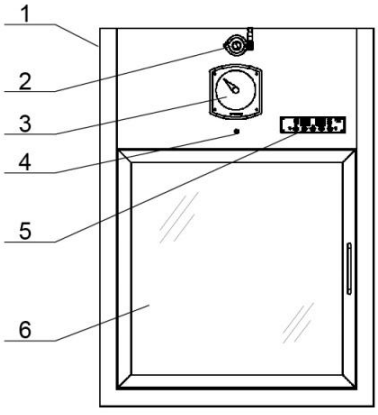
Please ask for other desired designs.

Options

- Electrical or Mechanical interlocking system.
- Air Shower Type
- UV Lamp Sterilization
- Easy-to-install by Wall Mounted, Floor Mounted or Pit Mounded
- Customized Size and Function Design



Schematic of Airflow



Schematic of Structure

1. Frame
2. DOP supply port
3. Pressure differential gauge
4. DOP test port
5. Control panel
6. Double glass door

Transfer Hatch

Transfer Hatch is used for transferring materials. The hatch are all made of SS 304 with a surface finish of Ra < 0.8μm. There will be climbing ramp and rollers made of SS304 at the bottom of the hatch for convenience of material transfer.

The doors are interlocked by magnetic device and provide a buffer area for transferring material/ product through the room with different class.

Provided with UV germicidal lamp, or ozone generator sterilization system based on the user's demand.

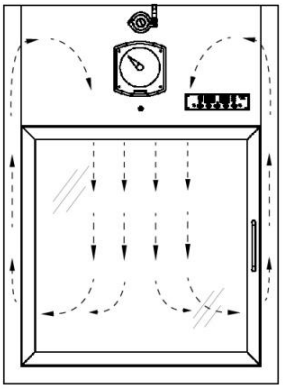
Standard size & Performace Parameters

Model	External Dimension L×W×H	Internal Dimension W×D×H	clean class	Upstream Rated air velocity (m/s)	UV sterilizer (W)	Ozone Concentration (ppm)	Noise (dB)	Power (kW)
HT4-50	700×560×1000	500×500×500	A	0.45±20%	8	20~50	65	0.15
HT5-60	800×660×1100	600×600×600			15			0.15
HT6-70	1000×860×1300	800×800×800			15			0.15

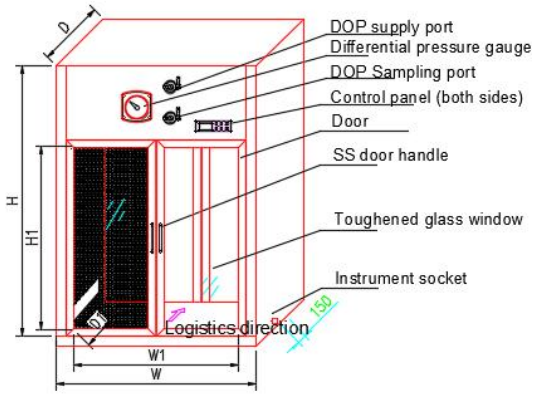
Please ask for other desired designs.

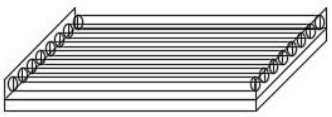
Options

- Electrical or Mechanical interlocking system.
- Air Shower Type
- UV Lamp Sterilization
- Easy-to-install by Floor Mounted or Pit Mounded
- Customized Size and Function Design



Schematic of Airflow





Schematic of Structure

VHP Aseptic Transfer Chamber

VHP Aseptic Transfer Chamber integrates a vaporized hydrogen peroxide (VHP) generator to provide VHP gas to the inside of the pass box for biological decontamination treatment on the outer surface of the material to prevent the material from entering A from non-grade areas or low-grade clean areas , B-level critical areas bring pollution. It can be used for all kinds of clean and dry items that need to be delivered in aseptic production, including packaging materials, instruments, raw and auxiliary materials, accessories, environmental monitoring equipment, etc. that enter the A and B key areas.

Standard Size & Performace Parameters

Model	External Dimension L×W×H	Internal Dimension W×D×H	Air velocity (m/s)	Volumn (m^3)	Power Capacity	Sterilant	Sterilization cycle
VHP-50	900×600×1925	500×500×600	0.36-0.54	0.15	AC220V ±22C/50Hz ± 1Hz 2500W	30% analytical grade hydrogen peroxide solution	>1 hour
VHP-60	900×700×2025	600×600×700		0.25			
VHP-70	1000×800×2150	700×700×800		0.4			
VHP-1	1300×1100×2150	800×1000×1200		1			
VHP-1.5	1600×1200×2150	1100×1100×1200		1.5			
VHP-2.5	1560×1400×2335	1100×1300×1750		2.5			

Please ask for other desired designs.

Main Features

- Inner chamber and tank with radius corners for better cleanability.
- Tempering glass in doors provide a clear view of internal chamber.
- Pneumatically interlocked doors ensure only one door can be open at one time when operating.
- The main body of the transfer hatch is constructed of304L industrial-grade stainless steel.
- Two operation modes:manual or automatic. Siemens PLC control.
- H14 grade HEPA filter
- Environmental friendly and leaving no harmful residues and lingering odor.
- Low temperature decontamination.
- All detail info can be recorded, comply with GMP, USP standard.
- Fault alarm function
- Bacteria killing rate can reach 6 log when take Bacillus stearothermophilus and Bacillus subtilis black variant as challenge.

Options

- Low temperature (18-26 ℃) compatible with Biologics
- Faster process time ≤50min for 3 m^3 chamber
- Use 7% Analytical Reagent

Sampling Booth

Sampling booth is used for the sampling, dosing or weighing of the chemical components, sampling antibioticos, hormones, cytostatics, etc either powders or liquids. that make up the finished products.

The sampling booth allow to obtain delimited environment area of clean and sterile air class ISO 5, through a unidirectional and descendant air filtered flow with lower pressure in the operation area. assures a slight depression and, therefore, an isolating from the surrounding area. The possibility of cross contamination with other products is avoided.

Standard Size & Performace Parameters

Model	External Dimension L×W×H	Internal Dimension W×D×H	Upstream Rated air velocity (m/s)	Working area clean class (grade)	Noise (dB)	Illumination (Lx)	Power (kW)
SB12-120	1300×1200×2570	1200×600×2000	0.45±20%	Same to background	75	300	0.3
SB16-100	1600×1800×2570	1500×1200×2000					0.45
SB24-120	2100×2700×2570	2000×2000×2000					0.6
SB32-200	3100×2700×2570	3000×2000×2000					0.9
SB48-120	4100×3200×2570	4000×2500×2000					1.2

Please ask for other desired designs.

Main Features	▪ Round corner design for the working area, dust free, easy to clean ▪ Air curtain isolated, convenient operation ▪ Excellent unidirectional flow pattern, no dust dispersion
Options	▪ Material SS 304 / 316 ▪ Three stages filtration: G4, F8, H14 ▪ Exhaust Filter with suitable size ▪ Air Flow Rate:0.45 + 0.1m/sec ▪ Differential Pressure ▪ Complete weighing management system with function of scanning code, weighing and labeling

Air Shower

Air Showers are enclosed chambers placed at the entry and exit points of a cleanroom or other controlled environment.

Using high-velocity jets of air and HEPA or ULPA air filter systems, cleanroom air showers remove loose contaminants from people and products before they enter the cleanroom, reducing or eliminating product defects for increased yields.

Contaminants are easily transported by people and objects and a simple spec of lint or debris could cause issues in some cleanroom environments. Therefore, cleanroom air showers have become a vital component in maintaining the cleanliness of cleanrooms and other clean-critical environments.

Standard Size & Performace Parameters

Model	External Dimension L×W×H	Internal Dimension W×D×H	Nozzles quantity	Power supply	Power Consumption (KW)	HEPA size L×W×D
AS11-120	1200×1000×2150	800×900×2000	6	AC/3N/ 380V/50H	0.75	610×610×69×1
AS12-130	1300×1000×2150	800×900×2000	12		1.12	610×610×69×2
AS22-130	1300×1300×2150	800×1200×2000	16		2.2	915×610×69×2

Please ask for other desired designs.

Frame	▪ SS304 ▪ SS316 ▪ Steel powder coated
Air speed	≥25m/s
Air shower time	0-99s Ajustable

Fogging Shower

Mist Shower/Fogging shower is now widely use in industries for decontamination from the cloths of the user. A mixture of air and water is spray on the cloths of the users. Comes with the microprocessor or PLC unit to control the whole process.

Our versatile mist shower are quite adept at controlling the level of contamination for particle sensitive processes such pharmaceutical drug testing and for research applications involving molecular biology and biochemical experiments, cell and tissue culture experiments etc.

The entire mist shower assembly is HEPA/ULPA filtered, pre-wired and tested, ready to use with a simple plug-in, therefore providing an unmatched ease of operation.

Standard Size & Performace Parameters

Model	External Dimension L×W×H	Internal Dimension W×D×H	Nozzles quantity	Power supply	Power Consumption (KW)
MS11-120	1200×1000×2150	800×900×2000	6	AC/3N/ 380V/50H	0.75
MS12-130	1300×1000×2150	800×900×2000	12		1.12
MS22-130	1300×1300×2150	800×1200×2000	16		2.2

Please ask for other desired designs.

Frame	▪ SS304 ▪ SS316
Air speed	≥25m/s
Air shower time	0-99s Ajustable
Door MOC	SS304/316

BIBO (Bag In Bag Out)

BIBO Bag in Bag Out Filter Systems are used to filter and contain contaminants and dangerous substances in hazardous environments. With this system, maintenance personnel are protected from direct contact with the inside of the shell and dangerous contaminants during filter change and testing.

Bag in Bag Out Filtration System includes pre-filter (and maintenance access door), HEPA or ULPA filter (and maintenance access door), inlet & outlet connecting duct flange unit, frame and mounting bracket. The equipment is full welded with argon welding except maintenance access door. It can be made not only at workshop but on site also.

Standard Size & Performace Parameters

Model	External Dimension W×D×H	HEPA size W×D×H	Rated air flow (m^3/s)
BIBO-1	400×725×900	305×610×292	1700
BIBO-2	705×725×900	610×610×292	3400
BIBO-3	705×1175×900	610×915×292	5100

Please ask for other desired designs.

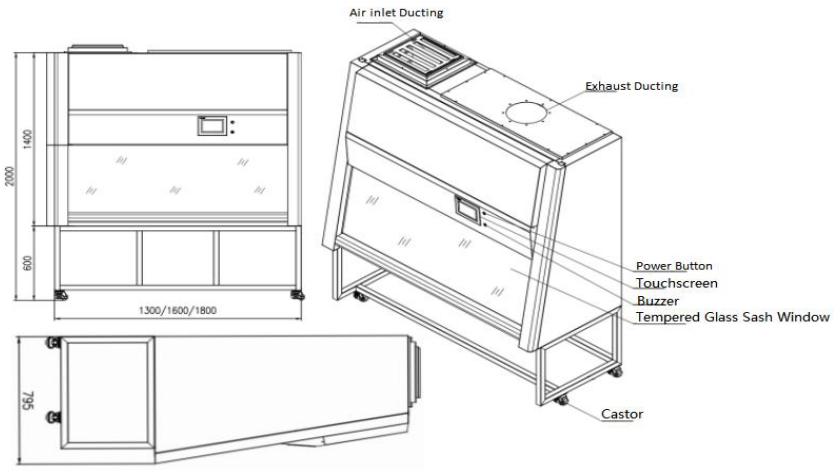
Frame	▪ SS304 ▪ Steel powder coated
Filters Stage	3 stage (G4, F9,H13/14)
Bypass test	DIN 19464, DIN 25414
Pressure resistance	100mBar, max. 500mBar

Biological Safety Cabinet - Class II A2

Class II A2 Biological safety cabinet (BSC) is a box-type air purification negative pressure safety device that can prevent some dangerous or unknown biological particles from escaping aerosols during experimental operation. It is widely used in scientific research, teaching, clinical inspection and production in the fields of microbiology, biomedicine, genetic engineering, biological products, etc. It is the most basic safety protection equipment in the first-level protective barrier of laboratory biosafety.

Vertical laminar negative pressure model, 70% of the airflow is filtered and recycled, and 30% of the airflow can be discharged into the room or connected to the exhaust system after being filtered.
Safety interlock system for sterilization systems.

Large-screen LCD display, real-time monitoring of running status, password management can be set to prevent misoperation, display the life of the filter and the running time of the blower and UV lamp.
Each biological safety cabinet is factory tested for safety and product performance in accordance with international standards.



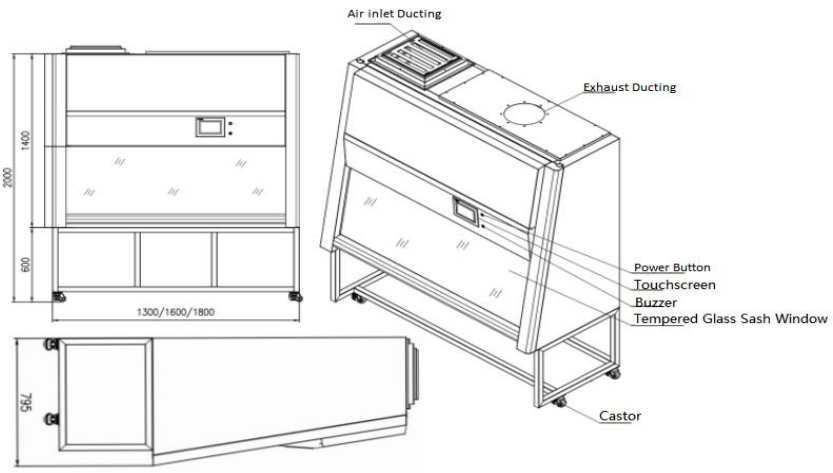
Standard Size & Performace Parameters

Modelparameter	YT-S/ F-1300-A2	YT-S/F-1600-A2	YT-S/F-1800-A2
Dimensions W×D×H (mm)	1300×795×2000	1600×795×2000	1800×795×2000
Work area size W×D×H (mm)	1100×630×630	1400×630×630	1600×630×630
Front window operating opening height (mm)	150-200		
Material	Working area SS316L External SS304 or Cold-rolled steel with anti-bacteria power coating		
Airflow Mode (External Exhaust Flow Proportion)	Vertical downflow, 70% air re-circulation, 30% air exhaust		
Blower model and quantity	D4E220, 1 unit	D4E225, 1 unit	D4E225, 1 unit
Specification and quantity of air velosity sensor	YGM215 , 2 pcs		
HEPA filter model	U15		
Exhaust filter size and quantity	600×400×100, 1 piece	800×400×100, 1 piece	1000×400×100, 1 piece
Air supply filter size and quantity	1105 × 465 × 70 , 1 piece	1405 × 465 × 70 , 1 piece	1605 × 465 × 70 , 1 piece
UV Lamp Specifications and Quantity	T5 -20W, 1 pc	T6 - 30W, 1 pc	T6 -40W, 1 pc
Lighting Specifications and Quantity	LED- 8W , 1pc	LED- 12W , 1pc	LED- 14W , 1pc

Please ask for other desired designs.

Biological Safety Cabinet - Class II B2

Class II B2 Biological safety cabinet (BSC) The working principle is mainly to suck the air in the cabinet to the outside, keep the negative pressure in the cabinet, and protect the staff through vertical airflow; the outside air is filtered by HEPA and enters the safety cabinet to avoid pollution. The air in the cabinet also needs to be filtered by HEPA filter and then discharged into the atmosphere to protect the environment.
Vertical laminar negative pressure model, 100% of the airflow can be discharged into the room or connected to the exhaust system after being filtered.
Safety interlock system for sterilization systems.
Large-screen LCD display, real-time monitoring of running status, password management can be set to prevent misoperation, display the life of the filter and the running time of the blower and UV lamp.
Each biological safety cabinet is factory tested for safety and product performance in accordance with international standards.



Standard Size & Performace Parameters

Modelparameter	YT-S/ F-1300-B2	YT-S/F-1600-B2	YT-S/F-1800-B2
Dimensions W×D×H (mm)	1300×795×2000	1600×795×2000	1800×795×2000
Work area size W×D×H (mm)	1100×630×630	1400×630×630	1600×630×630
Front window operating opening height (mm)	150-200		
Material	Working area SS316L External SS304 or Cold-rolled steel with anti-bacteria power coating		
Airflow Mode (External Exhaust Flow Proportion)	Vertical downflow, 100% air exhaust		
Blower model and quantity	D4E220, 1 unit	D4E225, 1 unit	D4E225, 1 unit
Specification and quantity of air velosity sensor	YGM215 , 2 pcs		
HEPA filter model	U15		
Exhaust filter size and quantity	600×400×100, 1 piece	800×400×100, 1 piece	1000×400×100, 1 piece
Air supply filter size and quantity	1105 × 465 × 70 , 1 piece	1405 × 465 × 70 , 1 piece	1605 × 465 × 70 , 1 piece
UV Lamp Specifications and Quantity	T5 -20W, 1 pc	T6 - 30W, 1 pc	T6 -40W, 1 pc
Lighting Specifications and Quantity	LED- 8W , 1pc	LED- 12W , 1pc	LED- 14W , 1pc

Please ask for other desired designs.

Chemical Shower

Chemical shower is mainly used for cleaning and disinfecting the surface of positive pressure protective clothing in biosafety laboratories (ABSL-3, BSL-4) of positive pressure protective clothing.
This system is a mandatory shower purification and disinfection device arranged between the polluted area and the semi-polluted area. The chemicals is automatically proportioned, through the pressurized pump group, valve group and pipeline system, and the ultra-fine atomizing nozzle is used to spray the chemical agent on the positive pressure protective clothing in a wide range and without dead angle; effective heat-inactivation and removal of dangerous pathogenic microorganisms that may be contaminated on the surface of positive pressure protective clothing worn by staff, ensuring scientific research and medical personnel to safely exit the polluted environment, avoiding bringing pathogens into the surrounding environment, a device for comprehensive cleaning and disinfection.

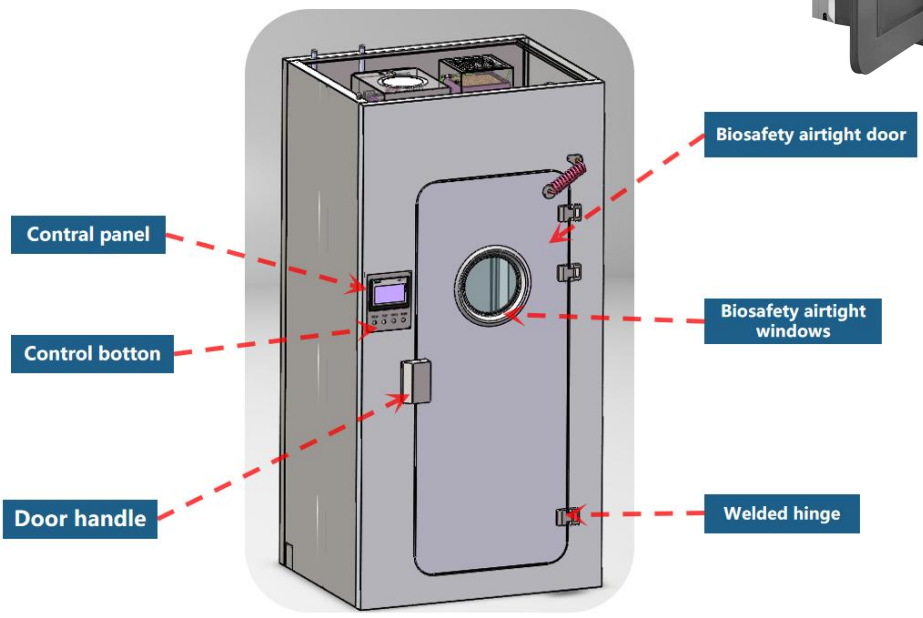
Standard Size & Performace Parameters

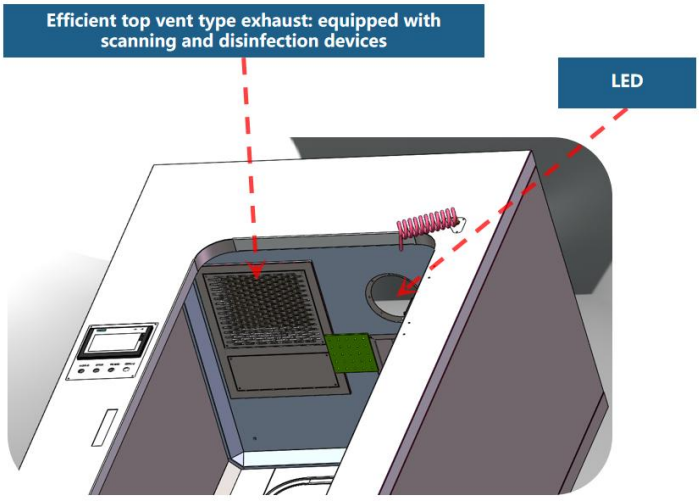
Items	Performace Parameters
Air tightness	When the air pressure in the box rises by 500 Pa, the air pressure that naturally decays within 20 minutes is less than 250 Pa
Pressure capacity	The box structure withstand a pressure of 1000 Pa
Material	Frame304 stainless steel, shower 316 stainless steel (pipeline, atomizing nozzle, etc.)
Function	Automatic liquid dispensing, automatic drug shower, automatic cleaning; and set up manual emergency spray
Shower pressure	0.5 ~ 0.7Mpa
Shower discharge	30 ~ 50L/min
Principle	High pressure atomization to make it more uniform without dead ends
Dosing	Automatically configure disinfectant, with mixing device, with liquid level monitoring and concentration monitoring device
Dispensing jar	Polyethylene (PE), strong corrosion resistance
Chemicals	Applicable to peroxide disinfectant, chlorine-containing disinfectant, acidic oxidation potential water and commonly used disinfectants in the market
Biosafety airtight doors	Airbag inflatable airtight door with interlocking device for added security
Control systerm	Intelligent automatic control, abnormal alarms such as liquid level and PH value, and remote monitoring functions, etc.
Pneumatic floor drain	Effectively ensure the air tightness of the chemical shower system
life support system	Standard configuration
Use population	Support 2 head count showing with positive pressure protective clothing at the same time

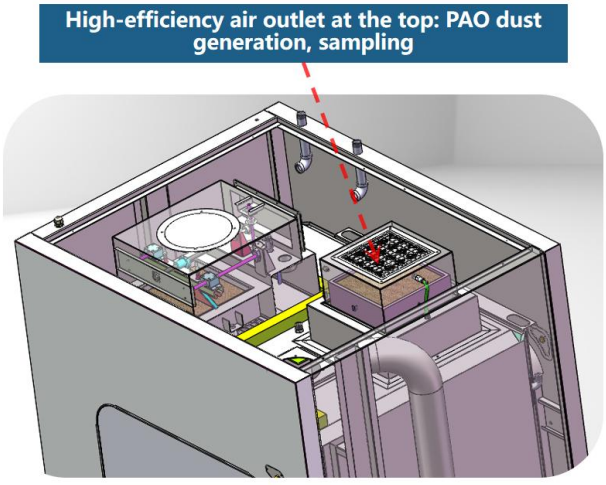
Please ask for other desired designs.

Water Shower Cabin

Water shower cabin is a Biosafety protection system. The whole is welded by AISI304 stainless steel. The interior adopts laser continuous full welding technique. The entrance and exit use biosafety airtight doors. The internal negative pressure working environment effectively prevents the leakage of pollutants.The equipment adopts the design process of top-row and bottom-feeding to reduce internal fog and improve personnel comfort. The top air supply has a built-in filter device to ensure the cleanliness of the fresh air. The top exhaust filtration system has a built-in high-efficiency filter and is equipped with disinfection and scanning leak detection functions to effectively ensure that pollutants do not leak. The top adopts stainless steel shower head, and the water temperature is automatically controlled. Built-in LED lighting and stripper. This product is suitable for P3/P4 biological laboratory or high-demand pharmaceutical workshop disinfection and sterilization key areas







Please ask for other desired designs.

Transfer Trolley / Clean Operation Bench

Transfer trolley is used for the storage and the transfer of products that are sensitive to contamination, between two class A areas, and through a class C area.
A laminar air flow class ISO 5 is maintaining a positive pressure within the transfer trolley avoiding any cross contamination. The transfer trolleys are equipped with a system of electrical plug / embarked battery, that maintain the laminar flow conditions in the transfer trolley at all times.

Standard Size & Performace Parameters

Model	External Dimension L×W×H	Internal Dimension W×D×H	Upstream Rated air velocity (m/s)	Working area clean class (grade)	Noise (dB)	Illumination (Lx)	Power (kW)
TT8-120	800×650×1800	720×600x750	0.45±20%	A	65	300	0.18
TT10-100	1000×650×1800	920×600x750					0.18
TT15-120	1200×750×1800	1120×700x750					0.25
TT19-200	1400×850×1800	1320×800x750					0.36

Please ask for other desired designs.

The clean operation bench is used for sampling, dispensing and weighing of small / large quantities of toxic products. protecting the operator from any contamination, confining the sampling / weighing / dispensing operation.
The clean operation bench is autonomous and easily moveable.
Available with PLC+ touch LCD screen or push button panel.

Standard Size & Performace Parameters

Model	External Dimension L×W×H	Internal Dimension W×D×H	clean class	Upstream Rated air velocity (m/s)	Noise (dB)	HEPA size L×W×D
CB10V-97.72D	970×720×1600	810×700×500	100 (A)	0.45±20%	65	760×610×70×1
CB15V-145.72D	1450×720×1600	1290×700×500				610×610×70×2
CB10H-97.82C	970×825×1500	810×650×600				760×610×70×1
CB15H-140.82C	1400×825×1500	1290×650×650				610×610×70×2

Please ask for other desired designs.

Dunk Tank

Dunk tank, also known as Biosafety Dunk tank, is a stainless steel cabinet equipped with a disinfectant basin. Through disinfecting liquid (alcohols, hydrogen peroxide, ammonium sulfate compounds, proteinated iodines, phenylpropanoids, glutaraldehydes, sodium hypochlorite), it apply to sterilizing items that are not resistant to high temperature and high pressure or radiation sterilization, and then the sterilizing liquid is discharged through the drain valve.

Feature:

Application:	Biosafety Laboratory
Composition:	Immersion tank box, cover plate, clapboard, drain valve, internal transmission system, control system, signal output and alarm system, disinfection and liquid drain;
Material:	Inner groove 316L stainless steel, outer 304 stainless steel; high/low temperature resistance, corrosion resistance, waterproof, impact resistance
Structure:	The inner cavity is fully welded, with double airtight doors interlocking structure; with disinfectant emptying and safety overflow and water sealing devices
Airtightness:	Airtightness: Both sides are mechanically compressed airtight covers;
Configuration:	Equipped with electric closed valve, automatic water supply; water level display and alarm; equipped with standard fumigation and disinfection interface

Please ask for other desired designs.

Modular Clean Booth

Modular Clean booth is normally small-sized and customized according to customers' requirements, also known as clean shed. There can be classified into hard wall cleanroom and soft wall cleanroom. Customers can assembled our modular cleanroom by themselves as per our manual.

Like SMIF forms, SVW's design is convenient for disassembly and assembly, saving installation and transportation costs. Internal clean class can reach up to 100 -100,000 level. Clean booth can separate between people and equipment or products effectively, also can minimize human interference and pollution , thereby enhancing the rate of qualified products.

Standard size & Performace Parameters

Model	External Dimension W×D×H	FFU Nos	Air flow (m^3/h)	Clean Level	Air Velocity
MCB-1500	1500×2000×2500	4pcs	4000	ISO 5 (Class 100) Class A	0.1~0.6m/s, average 0.45m/s
MCB-2000	2000×3000×2500	6pcs	5100		
MCB-3000	3000×4000×2500	12pcs	7600		
MCB-5000	5000×5000×2500	25pcs	12000		

Please ask for other desired designs.

Frame	▪ Aluminum profile ▪ Cold-rolled steel with anti-bacteria powder coating ▪ Stainless steel
Wall	▪ Anti-static dustproof curtain ▪ Acrylic ▪ PC
Control system	▪ Microprocessor control ▪ PLC

Please ask for other desired designs.

CLEANROOM FURNITURE

Stainless Steel Gowning Cabinet





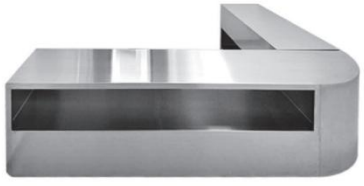

Optional door handle




× Customized design

Stainless Steel Shoe Cabinet

Optional handle



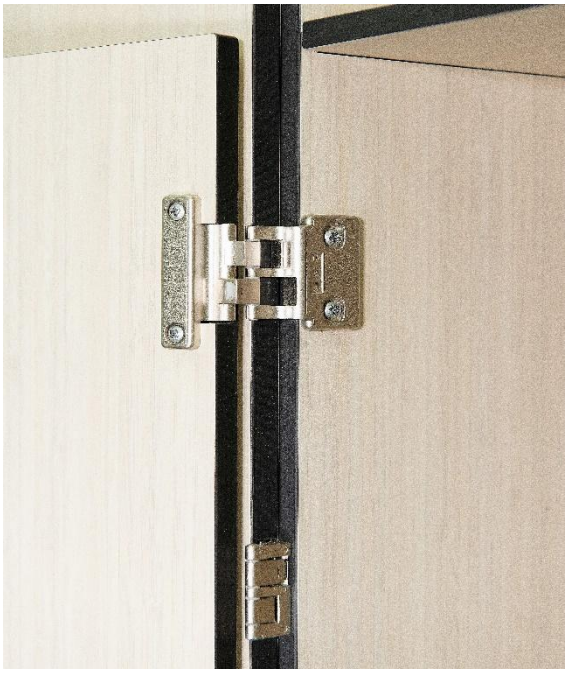
× Customized design

HPL Multifunctional Combination Cabinet

× Customized design

HPL Multifunctional Combination Cabinet

× Customized design



× Customized design

Stainless Steel Cart

× Customized design

Stainless Steel Sink









× Customized design

Stainless Steel Work Bench/Cabinet









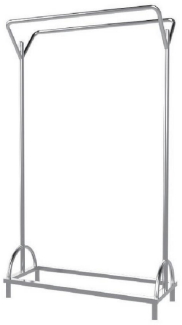





× Customized design

SS Shelf












× Customized design

SS Stepladder/Stool









× Customized design

SS Material Barrel












× Customized design

SS Gadgets

Steel and Wood laboratory bench

× Customized design

Fume Hood

× Customized design

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