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AIR PURIFYING SERIES 净化系列 F1

Relative Products Of Air Cleaning

净化配套产品



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德州亚太集团是国内大型暖通空调、洁净技术系统集成供应商。

集多年潜心研究，博采众长自成体系，打造出一流的暖通空调、洁净技术全套设备和众多精品工程。国内以中央电视台新址、酒泉卫星发射中心、北京大兴国际机场、国家质检总局、北京小汤山医院、武汉火神山医院、武汉雷神山医院、三峡工程及近二十个北京奥运场馆等为代表，国外以巴基斯坦乌奇电厂、柬埔寨金边市大都会广场、印度帕帕多拉工程等为代表的重点项目，采用了亚太中央空调设备，长期稳定，节能环保，获得了广泛的赞誉。

ISO9001、14001、3C、UL、CE、CRAA 等一系列认证；主机列入节能产品政府采购清单、数十项国家专利、国家级高新技术企业、中国驰名商标，充分标明了亚太集团的管理水平和产品水平。

与荷兰阿波罗合资，以欧洲标准制造的洁净设备全部返销发达国家、中央空调设备相继进入十几个国家和地区，展示亚太集团已经步出国门，与国际接轨。

植根齐鲁大地，秉持“以人为本”的经营理念，崇尚“以德待人”的儒家文化，亚太集团愿与您共同开创明天的辉煌。

Dezhou Yatai Group is a supplier of large HVAC and clean system in China.

Yatai has developed whole set of advanced HVAC and clean technology equipment and lots of wonderful projects based on long-term research and features of the others.

Many famous projects adopted Yatai central air conditioners that run smoothly, save energy, protect environment and have won good reputation widely like the New CCTV, the Jiuquan Satellite Launching Center, Beijing Daxing International Airport, the General Bureau of National Quality Inspection, Beijing Xiaotangshan hospital, Wuhan Huoshenshan hospital, Wuhan Leishenshan hospital, Three-gorge Engineering Project, and over 20 Beijing Olympic Stadiums in China; the UCH Power Plant in Pakistan, the Phnom Penh Capital Squire in Cambodia, the Priyadarshini Jurala Project in India and others across the world.

Yatai has been certified by ISO9001, 14001, 3C, UL, CE, CRAA, etc.; its chiller names have been put on the government purchasing list as energy saving products and obtained dozens of national patents, titles of National High-technology Enterprise and Chinese Famous Trademark, which fully show the high management levels and product qualities of Yatai Group.

The filtering equipment made according to the European Standards by the joint venture, which is co-invested by Dutch Afpro Company and Yatai, are all exported to the developed countries; our central air conditioners have been exported to over 10 countries or regions, which show that Yatai Group has stepped into oversea markets and been in line with the world.

Located at Shandong Province, insisting on business idea of "humanism" and advocating the Confucianism of "getting along with people by morality", Yatai Group wishes to create a brilliant future with you.



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Honorable Qualification



AIR PURIFYING SERIES 净化系列

Relative Products Of Air Cleaning 净化配套产品

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净化配套产品
Relative Products Of Air Cleaning



净化组合式空调机组
Combined air cleaning and handling unit

Relative Products of Air Cleaning

净化配套产品

AIR PURIFYING
SERIES
净化系列



净化排风箱

AIR CLEANING AND EXHAUSTING BOX



◎ 产品特性 Features

净化排风箱是一种根据不同需求，可提供初、中、高中效过滤的空气净化装置，具有安装简易、使用方便、结构合理的特点，对改善工艺条件、提高空气质量具有良好的效果。

Air cleaning and exhausting box is an air purification device with pre-, medium-, and high efficiency filters based on different needs. It has many features such as easy assembly and operation, reasonable structure and others, thus playing a good role in improving process conditions and air quality.

◎ 结构特点 Structural features

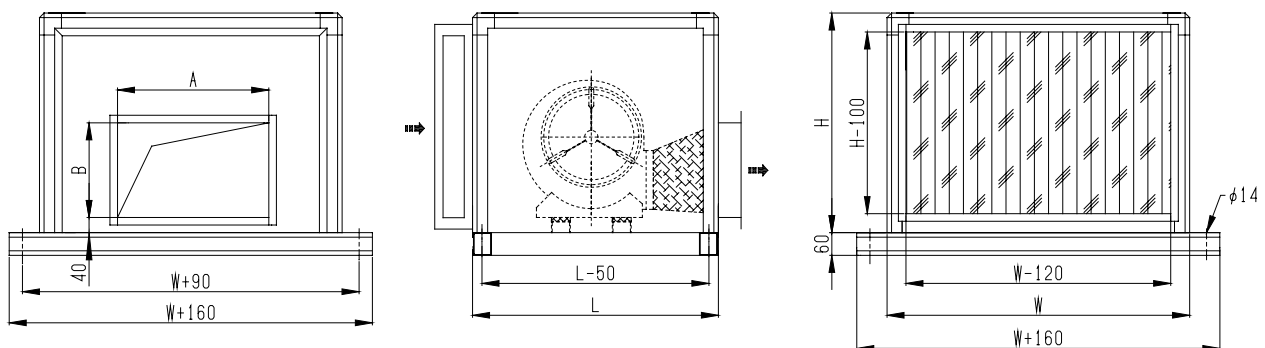
净化排风箱基本部件一般有风机、空气过滤器、风量调节阀及箱体组成。空气过滤器有板式和袋式两种，板式过滤可内置也可外置，外置时设于进风法兰处可自由抽拉，方便进行过滤的维修和更换。

Air cleaning and exhausting box generally consists of fan, air filter, air volume control valve and shell. Air filters are plate or bag types. Plate filters can be put either inside or outside. If put outside, it can be fixed at intake flange to be drawn at will. Thus, it is easy to replace or maintain it.

◎ 适用范围 Applicability

净化排风箱广泛应用于电子仪表、精密机械、食品、药厂等行业的空调净化工程。

Air cleaning and exhausting box is widely used in air cleaning projects in many industries like electronic instrument, precision machinery, food, pharmaceutical and others.





◎型号及主要技术参数 (参考)

Model and key technical parameters (for reference)

箱体型号 Body model	YTFX1.5-J	YTFX2-J	YTFX3-J	YTFX4-J	YTFX5-J	YTFX6-J	YTFX7-J	YTFX8-J	YTFX9-J	YTFX10-J	YTFX12-J	YTFX15-J
风量 (m³/h) Air flow rate	1500	2000	3000	4000	5000	6000	7000	8000	9000	10000	12000	15000
静压 (Pa) Static pressure	200	200	300	300	300	300	300	300	400	400	400	400
功率 (kW) Power	0.25	0.32	0.8	0.8	1.1	1.1	1.5	1.8	2.2	3.0	4.0	4.0
风机形式 Fan form	直联 Direct	直联 Direct	直联 Direct	直联 Direct	直联 Direct	直联 Direct	直联 Direct	直联 Direct	直联 Direct	直联 Direct	直联 Direct	直联 Direct
长度(mm) L	700	700	700	800	900	900	900	900	1000	1000	1200	1200
宽度(mm) W	700	700	700	700	800	800	900	900	1000	1000	1200	1200
高度(mm) H	500	500	600	700	700	700	800	800	850	850	1000	1000
送风口尺寸(mm) Air outlet size	320×200	320×200	400×250	400×250	400×320	500×400	500×400	630×400	630×400	630×500	630×500	800×500
过滤器规格 Filter specification	570×385×46	570×385×46	570×485×46	570×585×46	670×585×46	670×585×46	385×685×46	385×685×46	435×735×46	435×735×46	535×885×46	535×885×46
过滤器数量 (个) Filter number	1	1	1	1	1	1	2	2	2	2	2	2

FLS系列风淋室

FLS SERIAL AIR SHOWER ROOM

◎产品简介

Brief introduction

风淋室是进行人身净化和防止室外空气侵入洁净区的有效设备,通用性强,可与所有洁净室和洁净厂房配套使用。风淋室是人进入洁净室或洁净厂房的必须通道,为了减少由于人进出带来的大量尘埃粒子,在入口处安装功能齐全的“气闸室”可以减少空气污染微粒的数量。当人通过风淋室时,污染微粒被经过高效过滤的高度洁净空气射掉,高风速确保了有效的喷射和漂移微粒经过初效、高效两级过滤器基本过滤掉。

风淋室内的空气经初效过滤器进入静压室,经高效空气过滤器净化,从风淋室的喷嘴高速喷出。同时起到了气闸作用,防止未经净化的空气进入洁净区域。

Air shower room is efficient equipment to clean personal body and prevent outdoor air from entering the clean room, which is very universal and can support all kinds of clean rooms and clean workshops. It is the sole door to access the clean room or workshop. In order to reduce the amount of dust particles brought by people, a multi-functional “air lock” is fixed at the entrance. When people pass through the air shower room, pollution particles are blown away by filtered clean air. High speed air ensures that the blowing is effective and most particles will be strained away after passing through coarse pre-filter and HEPA filters.

The air inside the air shower room passes through coarse pre-filter, then enters the plenum chamber and after being purified by HEPA filters, finally it is sprayed out at high speed from air shower room's nozzles. Air shower room also works as an air lock to prevent unfiltered air from entering the clean zone.

◎构造特点

Structural features

- 1、采用优质钢板多层酸洗喷塑或者全部采用不锈钢制造。采用装配式结构,具有结构紧凑,坚固耐用、拆卸检修方便。
- 2、多角度任意调整的喷嘴。
- 3、光电感应控制,实行自动喷淋。双门联锁,实行强制喷淋。循环设计,保证非吹淋状态时风淋区内洁净。

1. It is made of multi-layer acid-washed and sprayed fine steel plate or stainless steel plate. Its fabricated structure is compact, strong, durable, and easy for maintenance.

2. Its multi-angle nozzles can be adjusted at will.

3. Photoelectric sensor makes it run automatically. Its two doors are interlocked, which gives compulsory shower. Circulation design makes sure to keep air within the air shower room clean all the time.





◎主要设备参数 Main device parameters

项目 Item	单人双吹风淋室 One-man double-blow air shower room	双人双吹风淋室 Two-man double-blow air shower room	三人双吹风淋室 Three-man double-blow air shower room
外形尺寸 Physical dimensions (L*W*H) (mm)	1400*1000*2100	1400*1500*2100	1400*2000*2100
内径尺寸 Air shower space (L*W*H) (mm)	800*900*1970	800*1400*1970	800*1900*170
风机电源、功率 Fan power supply and power	380V/50Hz/1100w (1台Set)	380V/50Hz/1100w (2台Sets)	380V/50Hz/1100w (3台Sets)
风机风量 Fan air flow rate (m³/h)	1300(单台风机)	1300(单台风机)	1300(单台风机)
噪音Noise (dB) (在设备外Away from the device 1m)	< 62	< 62	< 62
风机转速 Fan speed (r/min)	2800	2800	2800
净化灯电源、功率 Decontamination lamp power supply and power	220V/50Hz/40w	220V/50Hz/40w	220V/50Hz/40w
不锈钢喷嘴 Stainless steel nozzles	Φ30*12个	Φ30*24个	Φ30*36个
高效过滤器效率 HEPA filter efficiency	> 99.99%@0.3 μ m	> 99.99%@0.3 μ m	> 99.99%@0.3 μ m
高效过滤器 HEPA filters	尺寸 Size (mm)	610*610*120	610*610*120
	效率 Efficiency %	99.99	99.99
	风量 Air flow rate (m³/h)	1000	1000
	初阻力 Initial resistance (pa)	< 220	< 220
初效过滤器 Coarse pre-filters	尺寸 Size (mm)	775*380*15	775*325*15
	效率级别 Efficiency class	G3	G3
	效率 Efficiency %	75	75
	初阻力 Initial resistance (pa)	30	30
	风速 Air speed (m/s)	≥25	≥25
净化灯 Decontamination lamp	电源 Power supply	220V50Hz	220V50Hz
	功率 Power (W)	40 (双灯管)	40 (双灯管) * 2

风机过滤单元 FAN FILTER UNIT (FFU)

◎应用范围 Applicability

FFU广泛应用于众多行业各种级别的洁净室，主要应用级别ISO6级以上的净化室。例如TFT-LCD行业、PCB行业、微电子、制药、生物实验室、纳米实验室、光学元器件等领域。

FFU is widely used at all classes of clean room in many industries, especially at the clean room above ISO6 in class, such as TFT-LCD industry, PCB industry, microelectronics, pharmaceutical, biotechnology laboratory, nanotechnology laboratory, optical components and other fields.



◎系统设计 System design

无段式分量调速器可任意调整风量大小。

高性能风机组件和过滤器，能提供比同行业更高的机外静压。

The stepless component speed controller can regulate air flow rate at will.

The high performance fan and filter can provide much bigger external static pressure than our competitors.



◎FFU机组的特点 FFU features

1. FFU更换灵活、分区控制，自带动力，易成模块化处理。可根据室内配置分区控制。配套过滤器易于更换，一般不影响室内使用。

2. 负压通风，FFU本身能够提供静压，洁净室相对于室外

为正压，使得房间密封简单安全。与干盘管配合使用时，应考虑干盘管压降（一般为40Pa），尽量保证静压箱内负压值不超过20pa，可保证过滤器使用寿命在国标范围内（1-3年）。

3. FFU的使用减少了风管的使用。对于高级别区域利于标高的控制。

1. Self-propelled FFU is easy for replacement, partition control and modular combination. Partition control is available according to room layout. The supporting filter is easy for replacement and doesn't affect room operation.

2. Ventilation under negative pressure; FFU itself can provide static pressure; clean room is under positive pressure compared with the outdoor environment, thus making the room air-tight and safe. When the FFU collaborates with dry coil, the dry coil's pressure drop (generally 40Pa) should be considered. Do your best to keep the negative pressure of the plenum chamber less than 20pa, thus guaranteeing the filter service life meets national standard requirement (1-3 years).

3. Lots of air ducts are saved for FFU application. As for the advanced zone, FFU has no high demand for height.

◎FFU箱体的构造 FFU cabinet structure

主要由四部分组成：1、箱体 2、导流板 3、风机 4、控制部件

1)、箱体：FFU材质为不锈钢(SUS430、SUS304)\镀锌钢板、镀锌钢板制作。

作用：1、支撑风机及导风圈 2、支撑导流板。

2)、导流板：气流的均匀装置，内置于箱体，风机下方的四周。

3)、风机：有单项交流，直流，三项交流三种。

4)、控制部件：对于交流FFU，常使用三档调速或无极调速器。直流系统的控制芯片置于电机内部，借助于专用软件、电脑、控制网关及网络线路实现远程控制。

Mainly consists of 4 parts: 1. box, 2. guide plate, 3. fan, 4. controller

1)、Box : FFU is made of stainless steel (SUS430, SUS304)\ aluminized zinc steel plate, galvanized steel plate.

Roles: 1、Supporting fan and air deflector 2、Supporting guide plate.

2)、Guide plate: Airflow uniform device, fixed inside the box, around the fan bottom.

3)、Fan: 3 types of power supply, those are, 1 phase AC, DC, 3 phase AC

4)、Controller: As for the AC FFU, generally adopts 3-gear or stepless speed governor. The DC controller chip is embedded the motor, can remote control by means of special software, computer, network circuit and others.

◎FFU基本尺寸 FFU basic size

基本模块 Basic module	FFU箱体尺寸 FFU cabinet size(mm)	过滤器尺寸 Filter size(mm)	风速 Air speed(m/s)	过滤效率 Filter efficiency	功率 Power(W)
1200×1200(4×4)	1175×1175	1170×1170	0.45±20%	≥99.99%@0.3μm	240
900×1200(3×4)	875×1175	870×1170	0.45±20%	≥99.99%@0.3μm	180
600×1200(2×4)	575×1175	570×1170	0.45±20%	≥99.99%@0.3μm	150
600×900(2×3)	575×875	570×870	0.45±20%	≥99.99%@0.3μm	150
600×600(2×2)	575×575	570×570	0.45±20%	≥99.99%@0.3μm	150



空气自净单元

AIR SELF-PURIFICATION UNIT

◎产品简介

Brief introduction

空气自净单元外壳全部采用冷轧钢板，烤漆，自带风机，初效过滤网、送风静压箱。高效过滤器和均流板。且带有风速可调器，可根据实际情况进行风速调动。净化出风口可达百级。在工作台面可达到千级洁净级别（即1ft³空气中 $\geq 0.5\mu\text{m}$ 颗粒约在1千颗左右）。该空气自净单元下部设移动转轮和可调节千斤顶，可按要求移动到所需位置后固定，使用灵活方便，采用可变风量风机系统，多档调速，逐档选用，保证局部工作区风速始终处于理想状态。

The shell of air self-purification unit is made of cold-rolled steel and surface treated by paint, equipped with fan, coarse pre-filter, air supply plenum, HEPA filter and guide plate, also with air speed governor which can regulate air speed according to the practical situation. The air at outlet can reach purification class 100, while air at workbench can reach class 1,000, (i.e. particles $\geq 0.5\mu\text{m}$ within 1 cubic feet are around 1000). The movable wheels and adjustable jack under the unit enable it to be stabilized at required location, which is easy to be used. Multi-speed regulated variable air flow fan ensures that the air in the local working area is always under perfect condition.

◎技术参数

Technical parameters

项目 Item		型号 Model	移动式自净器 Movable air self-purification unit			吊顶式自净器 Suspension air self-purification unit		
			670 × 630 × 1480	800 × 630 × 1650	960 × 700 × 1800	1300 × 700 × 600	1800 × 700 × 600	2000 × 700 × 700
风机 Fan	型号 Model		SYZ-91	SYZ-91	SYZ-91	SYZ-91	SYZ-91	SYZ-91
	数量(台) Quantity(Set)		1	1	1	1	1	1
	电源 Power supply		220V50Hz	220V50Hz	220V50Hz	220V50Hz	220V50Hz	220V50Hz
	功率 Power (W)		375	375	375	375	375	375
	转速 Speed of rotation (r/min)		963	943	943	943	927	834
	风量 Air flow rate (m ³ /h)		1000	1500	2000	1500	2000	3000
	噪音Noise (dB)		62 1	62 6	62 7	62 6	62 7	67 1
外形尺寸 Physical dimension (mm)(W × D × H)			670 × 630 × 1480	800 × 630 × 1650	960 × 700 × 1800	1300 × 700 × 600	1800 × 700 × 600	2000 × 700 × 700
高效过滤器 HEPA filter	尺寸 Size (mm)		484 × 525 × 220	630 × 630 × 220	968 × 484 × 220	630 × 630 × 220	968 × 484 × 220	1260 × 630 × 220
	效率 Efficiency (%)		> 99.99	> 99.99	> 99.99	> 99.99	> 99.99	> 99.99
	风量 Air flow rate (m ³ /h)		1000	1500	2000	1500	2000	3000
	初阻力 Initial resistance (pa)		< 220	< 220	< 220	< 220	< 220	< 220
初效过滤器 Coarse pre-filter	尺寸 Size (mm)		508 × 420 × 21	508 × 420 × 21	508 × 420 × 21	595 × 495 × 21	595 × 495 × 21	595 × 495 × 21
	效率级别 Efficiency class		G3	G3	G3	G3	G3	G3
	效率 Efficiency (%)		75	75	75	75	75	75
	初阻力 Initial resistance (pa)		30	30	30	30	30	30
板材 Plate	材质 Material		A3冷板	A3冷板	A3冷板	A3冷板	A3冷板	A3冷板
	厚度 Thickness (mm)		1.2/1.0	1.2/1.0	1.2/1.0	1.2/1.0	1.2/1.0	1.2/1.0

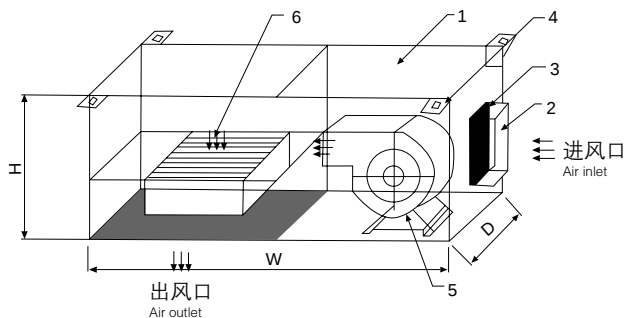




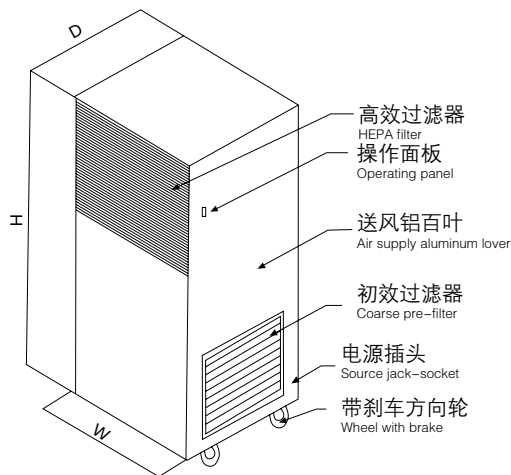
净化配套产品
Relative Products Of Air Cleaning



净化组合式空调机组
Combined air cleaning and handling unit



1. 风机
Fan
2. 进风法兰
inlet/outlet flange
3. 初效过滤器
Coarse pre-filter
4. 吊耳
Lifting lug
5. 箱体
Shell
6. 高效过滤器
HEPA filter



洁净层流罩

AIR CLEANING LAMINAR HOOD

◎特点

Features

洁净层流罩是一种可提供局部洁净环境的空气净化单元,可灵活地安装在需要高洁净度的工艺点上方,洁净层流罩可以单个使用,也可多个组合成带状洁净区域。洁净层流罩是将空气以一定地风速通过高效过滤器后,形成均流层,使洁净空气呈垂直单向流,从而保证了工作区内达到工艺要求的高洁净度。

Air cleaning laminar hood is an air purification unit which can create a local air cleaning environment. It can be installed flexibly at top of the technology spot where absolutely clean air should be available. It is used either individually or by being combined together to form a air cleaning stripe. It makes the air pass through HEPA filters at certain velocity, vertical uniflow, and form equalization flow layer to ensure that the cleanliness of the operating zone meet the technological requirements.

◎组成

Composition

它主要由箱体、风机、高效空气过滤器、阻尼层、灯具等组成,外壳喷塑。该产品既可悬挂,又可地面支撑,结构紧凑,使用方便。

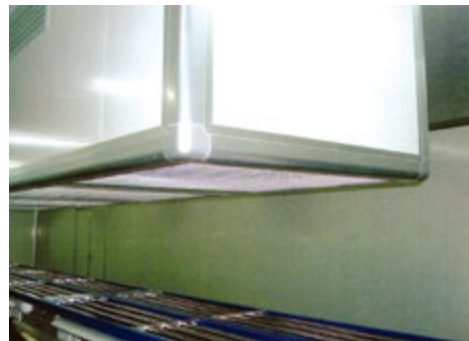
洁净层流罩有风机内装和风机外接两种,安装方式有悬挂式和落地支架式两种。

It consists of shell, fan, HEPA filter, damping layer, lamp and so on. Its surface is painted. It can be either suspended or on floor. It is compact and easy to use. Its fan can be fixed either internal or external. It can be installed either under ceiling or on floor.

◎技术参数

Technical parameters

- (1) 洁净度: 工作区内 $\geq 0.5 \mu\text{m}$ 粒径的尘埃 ≤ 3.5 颗/升 (ISO5级)
- (2) 过滤效率: 99.995% ($0.5 \mu\text{m}$ 粒径)
- (3) 噪声: $\leq 60 \text{ dB(A)}$
- (4) 平均风速: $0.45 \pm 20\%$
- (5) 尺寸: 可根据工艺线的尺寸生产。
- (1) Cleanliness: $\geq 0.5 \mu\text{m}$ dust particles in operating zone ≤ 3.5 granules per liter (ISO5 class)
- (2) Filtration efficiency: 99.995% ($0.5 \mu\text{m}$ particle in size)
- (3) Noise: $\leq 60 \text{ dB(A)}$
- (4) Average air speed: $0.45 \pm 20\%$
- (5) Size: Depends on the production line.



应用范围 Applicability

洁净层流罩与洁净室相比，具有投资省，见效快，对厂房土建要求低，安装方便，省电等优点，目前广泛用于精密机械、电子、制药、食品、精细化工等部门。

Comparing with air cleaning room, the air cleaning laminar hood has many features such as smaller investment, bigger economic returns, fewer requirements on building construction, easier to installation, saving more energy and so on. It is widely used in precision machinery, electronics, pharmaceutical, food, chemical and other fields.

GFK系列高效送风口 GFK SERIAL EFFICIENT AIR SUPPLY TUYERE

产品简介 Brief introduction

该产品采用荷兰最新技术设计，使气流分布更趋合理，箱体用优质冷轧薄钢板制作，表面经烤漆处理，结构简单可靠。它可作为终端高效过滤单元直接置于新建或改建的各级洁净室顶棚等处。

可根据客户需求加衬保温层或采用无菌板过滤器。

This tuyere makes airflow distribution more reasonable by learning the Holland latest technology. Its shell is made of high-quality cold-rolled steel sheet and finished with paint, simple and reliable. It can be fixed directly at new or renovated clean room ceiling serving as terminal efficient filtering unit. It can be coated by insulation liner or equipped with sterile plate filter.



液槽密封高效送风口（无隔板过滤） Tank seal HEPA (non separator filter)

序号 No.	风量 (m³/h) Air volume	型号 Model		过滤器 (铝合金框架) Filter (aluminum alloy frame)	散流板 Diffuser	侧回外形尺寸 Physical size of side back type	顶回外形尺寸 Physical size of top back type	风管接口尺寸 Air duct interface size	吊顶开孔尺寸 ceiling hole size
		侧回 Side back	顶回 Top back						
1	500	GFK-5C	GFK-5D	400 × 400 × 90	540 × 540	540 × 540 × 380	540 × 540 × 315	200 × 200	480 × 480
2	1000	GFK-10C	GFK-10D	570 × 570 × 90	710 × 710	710 × 710 × 380	710 × 710 × 315	320 × 200	650 × 650
3	1500	GFK-15C	GFK-15D	630 × 630 × 90	770 × 770	770 × 770 × 435	770 × 770 × 315	320 × 250	710 × 710
4	2000	GFK-20C	GFK-20D	915 × 610 × 90	1055 × 750	1055 × 750 × 380	1055 × 750 × 315	500 × 200	995 × 690



净化配套产品
Relative Products Of Air Cleaning



净化组合式空调机组
Combined air cleaning and handling unit

◎PU密封高效送风口（有隔板过滤） PU sealed HEPA air outlet (deep pleat filter)

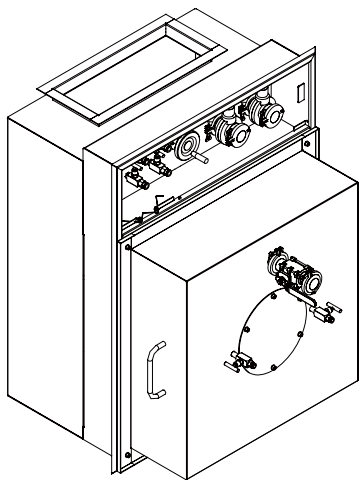
序号 No.	风量 (m³/h) Air volume	型号 Model		过滤器 (镀锌板框架) Filter (galvanized sheet frame)	散流板 Diffuser	侧回外形尺寸 Physical size of side back type	顶回外形尺寸 Physical size of top back type	风管接口尺寸 Air duct interface size	吊顶开孔尺寸 ceiling hole size
		侧回 Side back	顶回 Top back						
1	500	GFKPG-5C	GFKPG-5D	320 × 320 × 220	435 × 435	445 × 445 × 525	435 × 435 × 425	200 × 200	385 × 385
2	1000	GFKPG-10C	GFKPG-10D	484 × 484 × 220	595 × 595	610 × 610 × 525	595 × 595 × 425	320 × 200	545 × 545
3	1500	GFKPG-15C	GFKPG-15D	630 × 630 × 220	745 × 745	755 × 755 × 525	745 × 745 × 425	320 × 250	695 × 695
4	2000	GFKPG-20C	GFKPG-20D	968 × 484 × 220	1085 × 595	1090 × 610 × 525	1085 × 595 × 425	500 × 200	1035 × 545

高效排风口 HIGH-EFFICIENCY AIR VENT

◎产品简介 Brief introduction

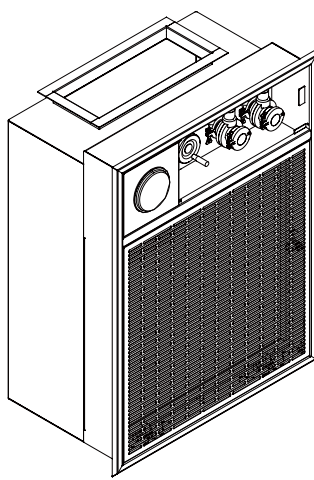
高效排风口是一种专用的洁净空气系统排风净化设备，主要用于生物实验室、负压隔离病房等需要营造负压环境的场所，对室内空气中的病原体微生物等污染物进行高效过滤防止污染物外泄，再通过排风系统排出室外，实现室内负压通风。

High-efficiency air vent is a special exhaust purification equipment for the clean air system. It is mainly used in biological laboratories, negative-pressure isolation wards and other places that need to create a negative-pressure environment. It can efficiently filter out pollutants such as pathogens and microorganisms in the indoor air to avoid their leaking out and then discharge the clean air outdoors through the exhaust system to realize indoor negative-pressure ventilation.



高效排风口原位检漏、消毒罩

In-situ leak detection and sterilization hoods for high-efficiency air vent



高效排风口主体结构

High-efficiency air vent main structure

◎主要技术参数

Main technical parameters

序号 NO.	风量 Air volume	箱体尺寸 (mm) Enclosure Size	高效过滤器规格 (mm) High Efficiency Filter Specifications	排风口尺寸 (mm) Air vent size
1	1000 m ³ /h	672 × 410 × 900	610 × 610 × 94	400 × 160
2	750 m ³ /h	672 × 410 × 750	610 × 460 × 94	320 × 160
3	100 m ³ /h	452 × 410 × 490	390 × 180 × 94	160 × 120

高效超薄型风口 EFFICIENT ULTRATHIN TUYERE

◎用途

Role

用圆形软管或螺旋风管连接，用于洁净室的干式密封吊顶。
It is fixed at dry seal ceiling of clean room by connecting with round hose or spiral duct.

◎特点

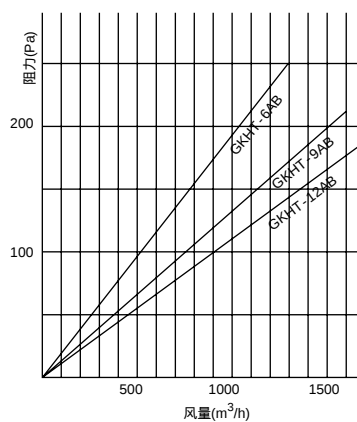
Features

效率高、阻力低、重量轻、可调节风量、安装方便、负压密封。
High efficiency, small resistance, light weight, variable air flow rate, easy installation, sealed by negative pressure.

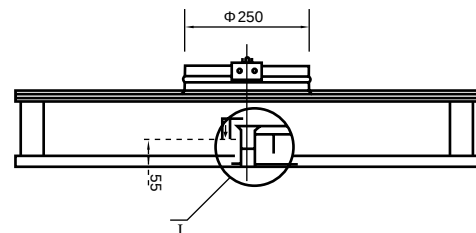


◎风量与阻力的关系

Relation between air flow and resistance



阻力 resistance 风量 airflow



◎构成材料及运行条件

Composition material and running conditions

框材料 Frame material	铝型材 Aluminum profile
接管顶板 Duct connection upper plate	铝板 Aluminum plate
密封胶 Sealant	聚胺脂胶 Polyurethane glue
分隔物 Partition	热熔胶 Hot melt
滤料 Media	玻纤滤纸 Glass fiber filter paper
使用最高温度 Maximal running temperature	80℃
使用最高湿度 Maximal running humidity	80%
密封条 Seal stripe	氯丁橡胶 Neoprene

◎型号尺寸及其它参数

Model, size and other parameters

型号 Model	外形尺寸 Physical dimension(mm)	额定风量 Rated air flow rate(m³/h)	初阻力 Initial resistance	效率(钠焰法) Efficiency(Sodium flame method)
GCB-6	610×610×150	600	≤120	99.99%以上 Over 99.99%
GCB-9	915×610×150	900		
GCB-12	1220×610×150	1200		

传递窗

TRANSMISSION WINDOWS

◎产品简介

Brief introduction

该装置是一种洁净室的辅助设备，主要用于洁净区与洁净区之间、洁净区与非洁净区之间小件物品的传递，以减少洁净室的开门次数，把对洁净室的污染降低到最低程度。

This device is auxiliary equipment serving in air clean room, mainly play delivering-article role between clean zone and clean zone or between clean zone and non-clean zone to reduce the door-open-times and reduce the pollution to the air clean room as much as possible.

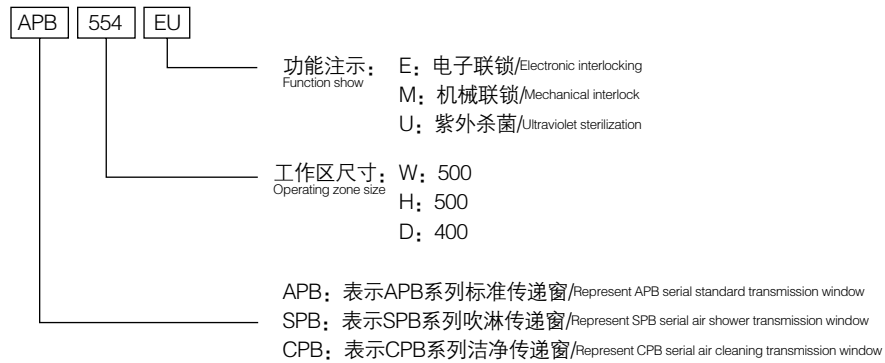
◎特点

Features

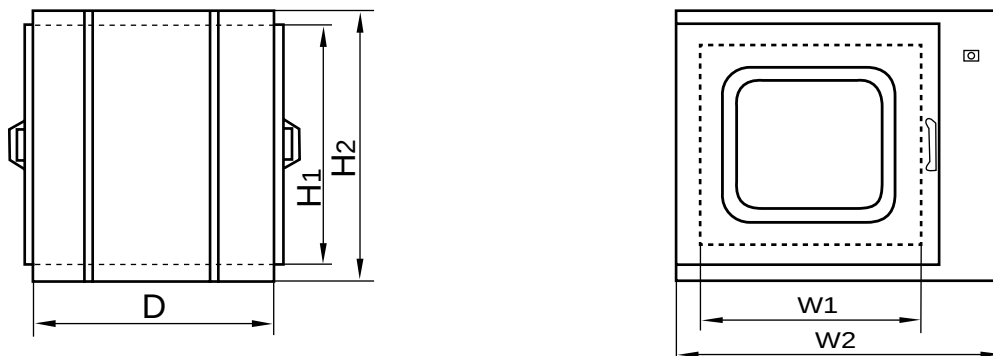
- 1、箱体采用优质薄钢板制成，表面经烤漆处理。
- 2、工作台面为不锈钢板，平整光洁。
- 3、该装置分为通用、电子联锁、机械联锁三大类型，并有紫外杀菌和带锁把手两种功能可供选配。
- 1、 The shell is made of qualified thin steel plate, and its surface is treated by baking finish.
- 2、 The operating platform is made of stainless steel, flat and smooth.
- 3、 This device has three types: common type, electronic interlocking type, mechanical interlocking type; ultraviolet sterilization and lock handle are optional.



型号举例说明 Model explanation



结构示意图 Structural schematic plan



技术参数 Technical parameters

型式 Type	W1	W2	H1	H2	D	重量 Weight
APB-554	500	685	500	590	400	约35kg
APB-558	500	685	500	590	800	约46kg
APB-574	500	685	750	840	400	约40kg
APB-578	500	685	750	840	800	约55kg
APB-754	750	935	500	590	400	约40kg
APB-758	750	935	500	590	800	约55kg



风淋传递窗

AIR SHOWER TRANSMISSION WINDOWS

◎产品简介

Brief introduction

风淋传递窗是一种洁净室的辅助设备，主要用于洁净室之间，非洁净室与洁净室之间小件物品的传递，以减少开门的次数，把对洁净客观存在或者洁净区的污染降到最低程度。

This device is auxiliary equipment serving in air clean room, mainly play delivering-small-article role between clean zone and clean zone or between clean zone and non-clean zone to reduce the door-open-times and reduce the objective existent clean or the pollution to the air clean room as much as possible.



项目 Item		型号 Model	600 × 600 × 600			750 × 750 × 750			800 × 800 × 800		
风机 Fan	型号 Model		DF-7	DF-9	YS8022	DF-7	DF-9	YS8022	DF-7	DF-9	YS8022
	数量(台) Quantity(Set)		1	1	1	1	1	1	1	1	1
	电源 Power supply		380V50Hz	380V50Hz	380V50Hz	380V50Hz	380V50Hz	380V50Hz	380V50Hz	380V50Hz	380V50Hz
	功率 Power(W)		750	1500	1100	750	1500	1100	750	150	1100
	转速 Speed of rotation(r/min)		2800	2840	2800	2800	2840	2800	2800	2840	2800
	风量 Air flow rate(m³/h)		1200	2000	1300	1200	2000	1300	1200	2000	1300
	全压 Total pressure(Pa)		1250	1400	940	1250	1400	940	1250	1400	940
	噪音 Noise(dB)		78	82	74	78	82	74	78	82	74
外形尺寸 Physical dimension(mm)			940 × 600 × 1450			1000 × 750 × 1500			1050 × 800 × 1550		
内部尺寸 Internal dimension(mm)			600 × 600 × 600			750 × 750 × 750			800 × 800 × 800		
高效 过滤器 HEPA filter	尺寸 Size(mm)		570 × 570 × 120			610 × 610 × 120			610 × 610 × 120		
	效率 Efficiency(%)		99.99			99.99			99.99		
	风量 Air flow rate(m³/h)		1000			1000			1000		
	初阻力 Initial pressure(Pa)		< 220			< 220			< 220		
初效 过滤器 Coarse pre-filter	尺寸 Size(mm)		595 × 195 × 13			745 × 195 × 13			795 × 195 × 13		
	效率级别 Efficiency class		G3			G3			G3		
	效率 Efficiency(%)		75			75			75		
	初阻力 Initial resistance(Pa)		30			30			30		
	风速 Air speed(m/s)		0.6			0.6			0.6		
不锈 钢喷嘴 Stainless steel nozzle	数量(个) Quantity(Pieces)		≥4 (顶吹)			≥4 (顶吹)			≥4 (顶吹)		
	型号 Model		出风口直径 Φ38 Outlet diameter Φ38			出风口直径 Φ38 Outlet diameter Φ38			出风口直径 Φ38 Outlet diameter Φ38		
	风速 Air speed(m/s)		≥20			≥20			≥20		

SCJ型超净工作台

SCJ TYPE SUPPER CLEAN BENCH

是形成局部环境高洁净度的必要设备。有水平层流和垂直层流两种类型、有适用于不同人数使用的系列产品。

This device is necessary equipment to create a high cleanliness local environment. It is classified 2 types, those are, horizontal flow laminar or vertical flow laminar. This serial device can meet requirements of different operators.

◎主要技术参数

Key technical parameters

- (1) 操作区气流速度 $\leq 0.5\text{m/s}$
- (2) 洁净度：对于 $\geq 0.5\ \mu\text{m}$ 的尘粒应 ≤ 3.5 粒/L
- (3) 噪音： $\leq 65\text{dB(A)}$
- (4) 电源：50Hz220V
- (5) 振幅：台面中心XYZ方向 $\leq 3\text{mm}$
- (1) Air speed in operating zone $\leq 0.5\text{m/s}$
- (2) Cleanliness: $\geq 0.5\ \mu\text{m}$ particle should be ≤ 3.5 granules per liter
- (3) Noise: $\leq 65\text{dB(A)}$
- (4) Power supply: 50Hz220V
- (5) Amplitude: XYZ direction at platform center should be $\leq 3\text{mm}$

◎外形尺寸

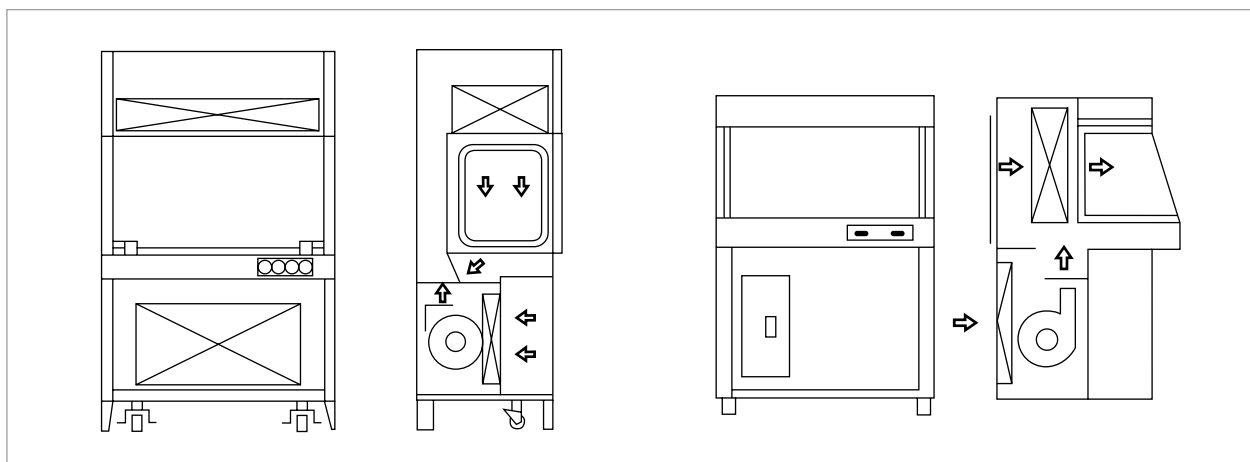
Physical dimension

型号 Model	规格 Specification	外形尺寸 Physical dimension
SCJ-S1	单人水平 One-man horizontal	1060 × 850 × 1470
SCJ-S2	双人水平 Two-man horizontal	1300 × 770 × 1740
SCJ-C1	单人垂直 One-man vertical	750 × 900 × 1750
SCJ-C2	双人垂直 Two-man vertical	1450 × 880 × 1770
SCJ-C3	单人双面 One-man opposed	1230 × 730 × 1600



◎SCJ型超净工作台结构示意图

Structural schematic plan of SCJ type supper clean bench





板式初中效过滤器

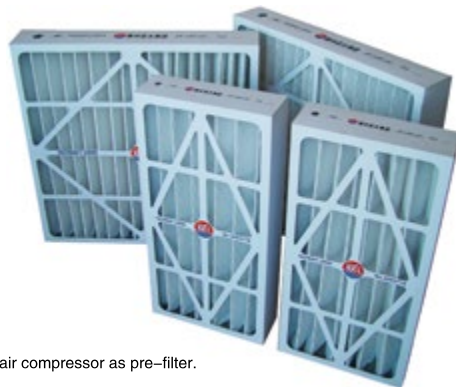
PLATE COARSE/MEDIUM EFFICIENCY AIR FILTERS

◎说明

Explanation

以无纺布、玻璃纤维等为滤料，楔形折叠造型以加大过滤面积，金属丝网夹紧或内置金属骨架支撑，配以金属外框或纸框，制成板式结构。具阻力小、寿命长、经济耐用等特点。

Use nonwoven fabric, glass fiber and other material as media. The wedge folded shape increases its filtering area as much as possible. The metal mesh or internal metal skeleton and the metal external frame or paper frame make the filter plate shaped. It has many features like small resistance, long service life, economic and durable.



◎应用

Applicability

一般应用在中央空调和集中通风系统预过滤，燃气轮机与空气压缩机预过滤。

It is generally used in central air conditioning or central ventilation system serving as pre-filter, gas turbine and air compressor as pre-filter.

◎结构

Structure

过滤器内部结构一般分为龙骨架。

龙骨架的特点是结实，滤材分布均匀，但制作费时费工。框骨架的特点是更换滤料方便，制作省时，强度比龙骨架略差。

Its internal structure is normally joist skeleton.

The features of joist skeleton are: strong and medium-uniform, but time-consuming. Features of shell frame are: easy to replace medium, time-saving but weaker than joist skeleton.

◎滤材

Medium

无纺布、合成纤维、化纤（进口）、玻璃纤维（进口）、锦凸网（尼龙网）。最常用的是无纺布、玻璃纤维和锦凸网。效率可达粗效或中效。

Non-woven cloth, synthetic fiber, chemical fiber (imported), glass fiber (imported), Jin convex mesh (nylon). The most commonly used materials are non-woven cloth, glass fiber and Jin convex mesh. Its efficiency can reach coarse or medium.

◎技术数据

Technical parameters

型号 Model	外形尺寸(W×L×D) Physical dimension	过滤器 Filter	过滤面积m ² Filtration area	流速 Air flow rate	最初的降压 Initial pressure drop
AERO12×24×1	288×594×24	G4	0.28	1310	75
AERO16×20×1	394×492×24	G4	0.31	1460	75
AERO16×25×1	394×622×24	G4	0.39	1840	75
AERO20×20×1	492×492×24	G4	0.38	1800	75
AERO20×24×1	492×594×24	G4	0.46	2200	75
AERO20×25×1	492×622×24	G4	0.48	2300	75
AERO24×24×1	594×594×24	G4	0.55	2600	75
AERO12×24×2	288×594×48	G4	0.53	1640	70
AERO16×20×2	394×492×48	G4	0.63	1830	70
AERO16×25×2	394×622×48	G4	0.79	2300	70
AERO20×20×2	492×492×48	G4	0.75	2290	70
AERO20×24×2	492×594×48	G4	0.91	2750	70
AERO20×25×2	492×622×48	G4	0.95	2880	70
AERO24×24×2	594×594×48	G4	1.10	3240	70
AERO12×24×4	288×594×96	G4	0.85	1640	55
AERO16×20×4	394×492×96	G4	0.96	1830	55
AERO16×25×4	394×622×96	G4	1.2	2300	55
AERO20×20×4	492×492×96	G4	1.15	2290	55
AERO20×24×4	492×594×96	G4	1.38	2750	55
AERO20×25×4	492×622×96	G4	1.44	2880	55
AERO24×24×4	594×594×96	G4	1.70	3240	55

中效袋式过滤器 MEDIUM EFFICIENCY BAG FILTERS

说明

Explanation

中效袋式过滤器主要阻挡1-5 μm以上灰尘颗粒，具有过滤面积大，容尘量大，低阻力等优点。

Medium efficiency bag filters mainly block dust particles over 1-5 μm in size and have many features like large filtration area, high dust holding capacity, small resistance and so on.

应用

Applicability

袋式过滤器被广泛应用于中央空调通风系统、制药、医院、电子、食品等工业净化中，还可以作为高效过滤器的前端过滤，以减少高效空气过滤器的负荷，延长其使用寿命。由于袋式过滤器的迎风面大，因此它的容尘量大、风速低，被认为目前最好的中效过滤器结构。

Bag filters are widely used in central air conditioning system and air cleaning industries like pharmaceuticals, hospitals, electronics, food and others. They also serve as HEPA filters' pre-filters to reduce the HEPA filters' loads and lengthen their service lives. Due to their large front face area, high dust holding capacity, small air speed and so on, their structures are considered the best ones by far in medium efficiency filters.

结构

Structure

采用新型复合无纺布或进口微细玻璃纤维及进口合成纤维外加被覆补强成型滤料，袋式造型，配以各种金属外框（镀锌板、铁板、铝合金等）。

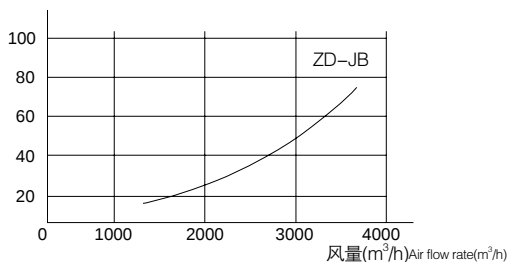
They adopt new composite nonwoven fabric, imported fine glass fiber or imported synthetic fiber coated with reinforced molded medium. They are in bag shape and with all kinds of metal frames (galvanized steel, iron plate, aluminum and so on).

滤料

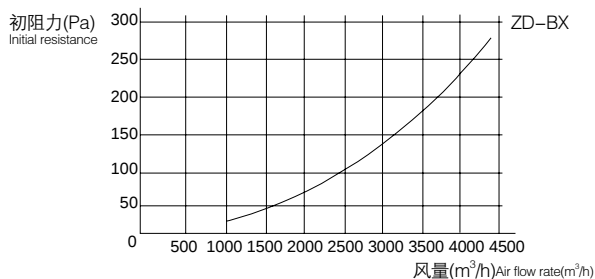
Medium

一般所用的滤材为三种：复合无纺布、进口合成纤维和玻璃纤维。

Three kinds of medium are adopted generally, that is, composite non-woven, imported synthetic fiber and glass fiber.



注：595 × 595 × 550，F5，聚脂纤维
Remarks: 595 × 595 × 550, F5, polyester fiber



注：595 × 595 × 550，F9，玻璃纤维
Remarks: 595 × 595 × 550, F9, glass fiber

技术数据

Technical parameters

产品型号 Model	容尘量 (g/m²) Dust holding capacity	初阻力 (Pa) Initial resistance	效率等级 Efficiency class
ZD-JB-45	150	55	F5
ZD-HX-45	107.6	50	F5
ZD-JB-65	140	65	F6
ZD-HX-65	96.9	60	F6
ZD-BX-65	36.6	60	F6
ZD-JB-85	120	120	F7
ZD-HX-85	80.7	110	F7
ZD-BX-85	32.3	110	F7
ZD-JB-95	110	120	F8
ZD-HX-95	75.3	120	F8
ZD-BX-95	16.1	120	F8

常用规格

Common specifications

规格 Specification	袋数 Number of bags	过滤面积 Filtration area (m²)	风量 Air flow rate (m³/h)
595 × 595 × 600	6	4.32	3600
595 × 295 × 600	3	2.16	1800
595 × 595 × 500	6	3.6	3000
595 × 295 × 500	3	1.8	1500
495 × 495 × 500	5	2.45	2000
495 × 295 × 500	3	1.47	1200
495 × 595 × 600	6	3.54	3000
595 × 495 × 600	5	3.54	3000

有隔板高效过滤器

DEEP-PLEAT HEPA FILTER

◎产品简介

Brief introduction

有隔板高效过滤器是洁净工程中普遍使用的过滤器品种。由于制造简单、价格低、耐温、抗冲击等许多优点，因此该过滤器广泛应用于各级别洁净室、超净厂房空气净化工程的终端过滤装置，也可作为洁净工作台、层流罩等局部净化设备配套用过滤器。

根据市场要求，我公司主要生产3种尺寸系列的有隔板高效过滤器：

- 1、基本尺寸为484mm
- 2、基本尺寸为610mm
- 3、基本尺寸为630mm

Deep-pleat HEPA filters are commonly used filters in the air cleaning projects. Due to advantages like easy manufacturing, low price, temperature tolerance, shockproof, they are widely used as terminal filtering devices of air cleaning projects for various levels of clean rooms, super clean plants and supporting filters for local air cleaning devices like clean workbench, laminar hood, etc.

According to market requirements, we mainly manufacture 3 sizes of deep-pleat HEPA filters as follows:

- 1、Basic dimension is 484mm
- 2、Basic dimension is 610mm
- 3、Basic dimension is 630mm



◎主要性能特点

Key performance

外框 Frame	滤材 Medium	隔板 pleat	过滤效率（钠焰法） Filtration efficiency (Sodium flame method)	密封胶 Sealant	密封条 Seal stripe	工作温度 Operating temperature	工作湿度 Humidity
铝型材 Aluminum profile 镀锌钢板 Galvanized steel	玻纤滤纸 Glass fiber paper	铝箔Aluminum foil 硬纸板Cardboard	99.97%,99.99%,99.999%	聚氨脂胶 Polyurethane glue	氯丁橡胶 Neoprene	≤90℃	≤90%

◎外形尺寸及其它参数

Physical dimension and other parameters

外形尺寸(mm) Physical dimension	额定风量 Rated air flow rate (m³/h)	建议风量 Recommended air flow rate (m³/h)	初阻力 Initial resistance (Pa)	效率(%)(钠焰法) Efficiency (%) (Sodium flame method)	过滤面积 Filtration area (m²)	容尘量(g) Dust holding capacity
320×320×220	400	250 ~ 400	≤240	99.99%	3.3	350
305×610×150	500	285 ~ 500	≤240	99.99%	4.1	400
315×630×220	750	500 ~ 750	≤240	99.99%	7.2	500
305×610×290	900	550 ~ 900	≤240	99.99%	8.3	550
610×610×150	1000	600 ~ 1000	≤240	99.99%	8.8	600
484×484×220	1000	600 ~ 1000	≤240	99.99%	11.7	650
726×484×220	1500	1000 ~ 1500	≤240	99.99%	13.6	750
915×610×150	1500	1000 ~ 1500	≤240	99.99%	15.6	800
630×630×220	1500	1000 ~ 1500	≤240	99.99%	18.2	900
1219×610×150	1700	1100 ~ 1700	≤240	99.99%	18.5	1000
610×610×290	1700	1100 ~ 1700	≤240	99.99%	18.5	1000
968×484×220	2000	1300 ~ 2000	≤240	99.99%	24.0	1200
945×630×220	2200	1500 ~ 2200	≤240	99.99%	24.7	1300
915×610×290	2500	1600 ~ 2500	≤240	99.99%	27.3	1500
1260×630×220	3000	2000 ~ 3000	≤240	99.99%	32.4	1800
1219×610×290	3000	2000 ~ 3000	≤240	99.99%	36.6	2000

说明：本公司接受特殊规格GY过滤器订货

Remarks: our company accepts the order of special specification GY filters.

无隔板高效过滤器 MINI-PLEAT HEPA FILTER

◎产品简介

Brief introduction

无隔板高效过滤器是目前洁净工程中最常见的过滤器品种，在多数工程中，无隔板高效过滤器已经替代了传统有隔板过滤器，其显著特点是结构紧凑、重量轻、过滤面积大、阻力低、使用寿命长等特点。

Mini-pleat HEPA filter is the most common filter in clean engineering at present. In most projects, mini-pleat HEPA filters have replaced the traditional deep-pleat filters. It is characterized by compact structure, light weight, large filter area, low resistance, long service life and so on.



◎主要性能特点

Key performance

外框 Frame	滤材 Medium	过滤效率(钠焰法) Filtration efficiency (Sodium flame method)	密封胶 Sealant	密封条 Seal stripe	分隔物 Partition	工作温度 Operating temperature	工作湿度 Operating humidity
铝型材 Aluminum profile	玻纤滤纸 Glass fiber paper	99.95%, 99.995%, 99.9995%	聚氨酯胶 Polyurethane glue	氯丁橡胶 Neoprene	热熔胶 Hot melt 玻纤丝绒 Glass wool	≤90℃	≤90℃热熔胶/Hot melt ≤120℃玻纤丝绒/Glass wool

◎外形尺寸及其它参数

Physical dimension and other parameters

外形尺寸 (mm) Physical dimension	额定风量(m³/h) Rated air flow rate	初阻力(Pa) Initial resistance	效率(%)(钠焰法) Efficiency (%) (Sodium flame method)	过滤面积 Filtration area (m²)
305 × 305 × 35	110	≤220	99.99%	1.3
610 × 610 × 35	450	≤220	99.99%	5.0
915 × 610 × 35	680	≤220	99.99%	7.8
305 × 305 × 50	180	≤230	99.99%	1.9
610 × 610 × 60	700	≤240	99.99%	7.2
915 × 610 × 50	1100	≤240	99.99%	11.1
305 × 305 × 70	250	≤240	99.99%	2.5
305 × 610 × 70	500	≤240	99.99%	5.0
610 × 610 × 70	1000	≤240	99.99%	10.2
762 × 610 × 70	1250	≤240	99.99%	12.7
915 × 610 × 70	1500	≤240	99.99%	15.4
1219 × 610 × 70	2000	≤240	99.99%	20.7
305 × 305 × 90	250	≤240	99.99%	3.2
305 × 610 × 90	500	≤240	99.99%	6.5
610 × 610 × 90	1000	≤240	99.99%	13.1
762 × 610 × 90	1250	≤240	99.99%	16.2
915 × 610 × 90	1700	≤240	99.99%	19.7
1219 × 610 × 90	2000	≤240	99.99%	26.5

说明：本公司接受特殊规格GW过滤器订货。

Remarks: our company accepts the order of special specification GW filters.

手工净化彩钢板

MANUAL CLEAN COLOR STEEL PLATE

◎产品简介

Product introduction

手工板是针对普通净化板强度弱，粘结差等诸多缺点所研发设计的一种加强型的复合夹芯板。产品系半机械结合手工生产，可按需要方工程要求定长、宽，组合安装，不仅能大量减少建筑物的基础工程和结构费用，且能多次拆装，施工方便，综合效果十分显著。

表面材质：彩涂钢板、镀锌板、不锈钢板、抗静电板、耐腐蚀板等净化特定材质板。

内部芯材：芯材可采用无机质（玻镁板、石膏板）、岩棉、硫氧镁、聚氨酯（PU）、纸（铝）蜂巢、聚苯乙烯（EPS）、挤塑（PE）等。

结构边框：四周采镀锌板净拉型框架或塑钢框架。

产品特点：手工板具有表面光滑美观、强度高、隔音、绝热、保温、抗震，尺寸可定制、连接方便、拆卸容易、芯材不外露、施工方便等性能。

规格型号：彩板厚度一般用0.426mm—0.6mm。厚度：50mm、75mm、100mm。宽度：常用1180mm、980mm、非标板任意宽度。长度：可根据需求制作（一般长度≤6000mm）。

应用范围：广泛用于高科技电子、医药、化工、食品等行业的净化房维护、吊顶，工业厂房、仓库、冷库、烤炉、空调器壁板等洁净领域。

产品多样：岩棉彩钢板、玻镁岩棉彩钢板、玻镁彩钢板、硫氧镁彩钢板、聚氨酯彩钢板、铝（纸）蜂窝彩钢板、石膏彩钢板、石膏岩棉彩钢板、石膏挤塑加强岩棉板，也可根据客户要求制作特殊芯材、特殊规格板材。

理化性能：产品钢面为高级聚酯烘烤涂层、铝锌涂层、不锈钢板，故耐腐蚀性好；产品内填材料均系A级难燃材料，燃烧时不会熔断，也无高温分解滴落物，是目前国内高等级的防火建筑复合板，产品强度高、耐冲击、抗震性好。

Manual plate is a kind of reinforced composite sandwich board, which is developed and designed targeting the shortcomings of ordinary clean board, such as weak strength and poor bonding.The product is made semi-mechanically and manually. Its length and width can be fixed according to the engineering requirements for combined installation. Thus, not only are the basic engineering and structural costs of the building reduced, but also it can be disassembled several times. Its construction is very convenient, and the comprehensive effect is significant.

Surface material: color coated steel plate, galvanized plate, stainless steel plate, anti-static plate, corrosion resistant plate and other purification specific material plates.

Inner core material: the core material can be inorganic material (glass magnesium board, gypsum board), rock wool, magnesium oxysulfide, PU, paper (aluminum) honeycomb, EPS, and PE.

Structure frame material: galvanized sheet net drawing frame or plastic steel frame.

Product characteristics: the manual plate has advantages of smooth and beautiful surface, high strength, sound insulation, heat insulation, earthquake resistance, customized size, easy connection, easy disassembly, not exposed core material, and convenient construction.

Specifications and models: normal steel plate thicknesses: 0.426mm—0.6mm. Thickness: 50mm, 75mm, 100mm. Normal widths: 1180mm, 980mm Non-standard plates can have any width. Length: can be tailor-made (normal length≤6000mm)

Application: It is widely used in purification areas such as purification room maintenance, ceiling, industrial plant, warehouse, cold storage, oven, and air conditioner wall panel for the industries of high-tech electronics, medicine, chemical, and food.

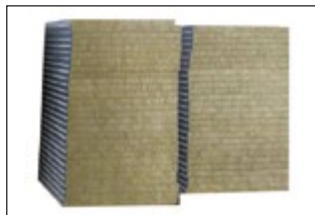
Various products: rock wool color steel plate, glass magnesium rock wool color steel plate, glass magnesium color steel plate, magnesium oxysulfide color steel plate, PE color steel plate, aluminum (paper) honeycomb color steel plate, gypsum color steel plate, gypsum rock wool color steel plate, gypsum extrusion molding reinforced rock wool plate. Special core materials and specifications plates can be made according to customer's requirements.

Physical and chemical properties: the product is made of advanced polyester baking coating and aluminum zinc coating stainless steel plate which has high corrosion resistance property; The filling material is grade A flame retardant material, which will not fuse when burning, and there is no high temperature decomposition dripping material, which is the current domestic high grade fire retardant building composite board. The product has high strength, good impact resistance and shock resistance properties.

			
手工岩棉彩钢板 Manual rock wool color steel plate	手工玻镁岩棉彩钢板 Manual glass magnesium rock wool color steel plate	手工纸蜂窝彩钢板 Manual paper honeycomb color steel plate	手工铝蜂窝彩钢板 Manual aluminum honeycomb color steel plate

机制净化彩钢板

MACHINE-MADE CLEAN COLOR STEEL PLATE



机制岩棉彩钢板：具有保温隔热、安装便捷的特点。是同类（夹芯板系列）中耐火性能最强的一种新型防火板材。产品应用于净化厂房吊顶、围护及净化产品工业厂房。

Machine-made rock wool color steel plate: It has the characteristics of thermal insulation and convenient installation. It is a new type of fireproof plate with the strongest fire resistance property among its similar products (sandwich panel series). The products are used in purification plant ceiling, enclosure and industrial plant of purification products.



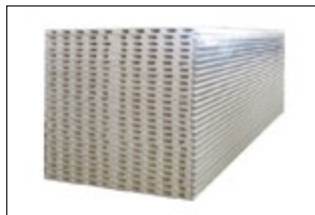
机制硅岩彩钢板：克服了传统EPS泡沫板易燃的缺点。安全性能非常高。产品应用于净化厂房吊顶、围护及净化产品工业厂房。

Machine-made silicalite color steel plate: It overcomes the flammable shortcomings of traditional EPS foam board, having high safety features. It is used in purification plant ceiling, enclosure and industrial plant of purification products.



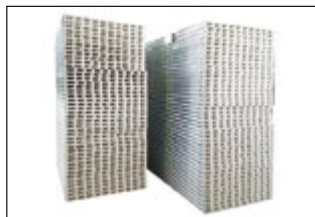
机制EPS彩钢板：产品应用于净化厂房吊顶、围护及净化产品工业厂房、仓库、冷库、大跨度层面板、原有建筑夹层、临时办公室、商店、市场、岗亭等。

Machine-made EPS color steel plate: This product is used in purification plant ceiling, enclosure, industrial plant, warehouse and cold store of purification products, large span layer board, original building mezzanine, temporary office, shop, market, and watch house.



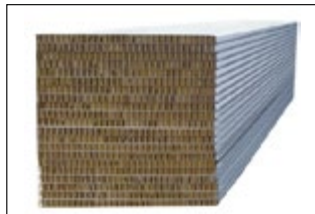
机制硫氧镁彩钢板：硫氧镁彩钢夹芯板在防火、防潮、高强度、保温、隔热、吸音等方面有着显著地优点及功效。产品应用于净化厂房吊顶、围护及净化产品工业厂房。

Machine-made magnesium oxysulfide color steel plate: Magnesium oxysulfide color steel plate has significant advantages in fire and moisture preventions, high strength, heat preservation, heat insulation, and sound absorption. The products are used in purification plant ceiling, enclosure and industrial plant of purification product.



机制玻镁中空彩钢板：玻镁板以氧化镁、氯化镁和水三元体系，经配置和改性剂而制成的，性能稳定的镁质胶凝材料，以中碱性玻纤网为增强材料的新型不燃材料。产品应用于净化房吊顶、围护及净化产品工业厂房。用热固化胶在连续成型机内加压复合而成的轻质建筑板材。

Machine-made glass magnesium hollow color steel plate: Glass magnesium plate is configured and modified by using magnesium oxide, magnesium chloride and water. It is a new kind of flame retardant material made of property stable magnesium binding material and neutral, alkaline glass fiber net. The products are used in purification plant ceiling, enclosure and industrial plant of purification product. This lightweight building plate is pressurized by the continuous forming machine with hot setting adhesive.



机制纸蜂窝彩钢板：产品自重轻、保温隔断性能好、隔声效果好、施工速度快。产品应用于净化厂房吊顶、围护及净化产品工业厂房。

Machine-made paper honeycomb color steel plate: light weight, good insulation partition performance, good sound insulation effect, fast construction speed. The products are used in purification plant ceiling, enclosure and industrial plant of purification product.



过滤器应用选择指南

GUIDES TO SELECTING SUITABLE FILTERS

过滤器类型 Filter types	滤材选择 Medium selection	过滤效率 Filtration efficiency	应用环境 Applicability
平板式过滤器 Plate type filters	无纺布、铝箔网、锦凸网 Non-woven fabric, aluminum foil mesh, Jin convex mesh.	G4、G5	空调风口过滤，阻挡灰尘等10微米左右大微粒，涂装车间预过滤。 Serve at air conditioner grill, to block large particles 10 microns in size like dust, serving as pre-filter in painting workshop.
袋式过滤器 Bag filters	化纤无纺布、玻璃纤维 Chemical fiber non-woven fabric, glass fiber.	G4、F5-F9	一般中央空调系统主过滤，一般洁净室保护末端过滤器的预过滤。 Serve central air conditioning system as main filter generally, serve clean room as pre-filter to protect terminal filter generally.
大风量中效、亚高效过滤器 High air volume medium, sub HEPA filter	化纤无纺布、合成纤维、玻璃纤维 Chemical fiber non-woven fabric, synthetic fiber, glass fiber	F5-F9	一般中央空调系统主过滤。 Serve central air conditioning system as main filter generally.
有隔板、高效过滤器 Deep pleat HEPA filter	超细合成纤维滤纸、超细玻璃纤维滤纸 Superfine synthetic fiber filter paper, superfine glass fiber filter paper	H11-U16	高档公共场所末端过滤，一般洁净室预过滤，洁净厂房，洁净室末端过滤。 Serve top-end public places as terminal filter, general clean room as pre-filter, cleaning workshop, clean room as terminal filter.
无隔板高效、超高效过滤器 Mini-pleat HEPA, super HEPA filter	超细合成纤维滤纸、超细玻璃纤维滤纸 Superfine synthetic fiber filter paper, superfine glass fiber filter paper	H14-H16	手术室、制药、芯片车间等高洁净等级场所末端过滤。 Serve operating room, pharmacy, chip workshop and other high cleaning places as terminal filter.
V型组合式中、高效过滤器 V shaped packaged medium, HEPA filters	合成纤维滤纸、玻璃纤维滤纸 Synthetic fiber filter paper, glass fiber filter paper	F6-F9	一般中央空调（大风量）主过滤 Serve central air conditioning system (large air blow rate) as main filter generally.
活性炭过滤器 Active carbon filters	活性炭颗粒、滤棉 Active carbon granule, filter cotton		

中国GB/T14295	粗 效 Coarse						中 效 Medium				高 中 效 High-medium			亚 高 效 Sub-HEPA					高 效 HEPA		
美国ASDRAE	C1	C2,3,4	L5	L6	L7	L8	M9	M10	M11	M12	H13	H14	H15		H16		UH17		UH18	UH19	UH20
欧洲CEN	G1	G2	G3		G4		F5		F6		F7	F8	F9	H10	H11	H12	H13		H14	H15-17	
欧洲EUROVENT	EU1	EU2	EU3		EU4		EU5		EU6		EU7	EU8	EU9		EU10	EU11	EU12	EU13	EU14		



空气过滤器效率规格比较

COMPARISONS IN EFFICIENCY AND SPECIFICATION

欧洲规格 CEN EN	最易穿透粒径 MPPS	欧洲旧规格 Old Eurovent	美国规格 ASHRAE
U17	99.999995%		
U16	99.99995%		
U15	99.9995%		
H14	99.9995%	EU14	UH20
H13	99.995%	EU13	UH19
H12	99.95%	EU12	UH18
H11	99.5%	EU11	UH17
H10	95%	EU10	H16
F9	85%	EU9	H15
F8	95%	EU8	H14
F7	90%	EU7	H13
F6	80%	EU6	M12
F5	60%	EU5	M11
G4	40%	EU4	M10
G3	90%	EU3	M9
G2	80%	EU2	L8
G1	65%	EU1	L7
			L6
			L5
			C2 ~ C4
			C1



净化配套产品
Relative Products Of Air Cleaning



净化组合式空调机组
Combined air cleaning and handling unit

工程案例

SOME ACHIEVEMENTS

中国人民解放军总医院	富士康科技集团	山东罗欣药业股份有限公司
天津大通红日药业	威海人生药业	天津天宝电子有限公司
东阿阿胶	吉林东宝制药	解放军88医院
解放军202医院	河北中药厂	滨州医学院制剂厂
安哥拉北宽扎省中心医院	黑龙江红星集团食品	山东省陵县人民医院
安国贵灵百顺药业	华北制药股份	山东省平原制药厂
安国市伊康药业	桦甸市人民医院	山东信立泰药业
安徽滁州养元饮品	鸡西市妇幼保健院	山东永聚医药科技
安徽哈博药业	鸡西肿瘤医院	山东泽生生物科技
安徽省新安干细胞工程	济南利蒙制药	山西皇城相府药业
白云山汤阴云东泰药业责任有限公司	济南市半导体元件实验所	山西振东开元制药
宝清县中医院	江苏省庆缘康生物科技	陕西步长制药
北京嘉林药业股份	靖西县人民医院	陕西师范大学
北京市燕京药业	克东县人民医院	石家庄龙泽制药
北京李桥儿童医院	临沂新程金锣肉制品	石家庄市第一医院
北京双鹭药业股份	鲁南制药集团股份	寿光富康制药
北京同仁堂（唐山）	内蒙古金海伊利乳业责任	寿光光明眼科医院
滨州市药品检验所	内蒙古阿拉善盟蒙医医院	太原市太航医院
长治市三宝生化药业	蓬莱深奥生物科技研究所	泰安生力源生物工程
赤峰丹龙药业	秦皇岛众瑞制药	唐山华青生化药业
德州华茂生物科技	山东安吉丸食品	天津开发区渤海东大药业
东阿良子生物食品	山东宝利来生物工程股份	文水县人民医院
格尔林人民医院	山东贝诺医药生物科技	翁牛特旗医院
谷神生物科技集团	山东步长神州制药	小洋人生物乳业集团
广东清平制药	山东达因海洋生物制药股份	新泰市中医院
广饶县人民医院	山东东阿百年堂阿胶生物制品	星宇食品（烟台）
广元市第一人民医院	山东方明药业股份	烟台正海生物技术
哈尔滨伊达药业	山东福禾菌业科技	右江民族医学院附属医院
邯郸制药	山东富海实业股份	枣庄市王开传染病医院
和田墨玉县维吾尔医医院	山东华鲁制药	中国电子科技集团
河北爱普制药	山东京卫制药	中国科学技术大学
河北华晨药业	山东凯乐普生物工程	中国人民解放军第十一医院
河北金木药业集团	山东立海润生物技术	中核第四研究设计工程
河北君临药业	山东海洋制药厂	中影集团电影生产基地
河北圣雪大成唐山制药	山东瑞通高分子医疗器械	淄博恒汇电子科技
河南省三联豆业科技	山东润鑫精细化工	淄博莲池医院
黑龙江百森饮料	山东神州制药	淄博市药品检验所



BUILD REPUTATION ON PROJECTS

只要努力满足客户的需求

继续引入更多的优质产品

我们一定能够培育出一个稳定的顾客群体

实现销售网络持续、稳定的增长

If we strive to meet the demands of the clients

continue to produce more products with high quality

We will nourish and set up a steadfast client group

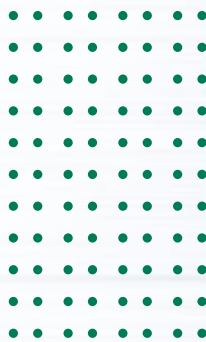
to realise the stable and steadfast expansion of the sales net

优良的品质和周到的服务，亚太集团取得了骄人的业绩。亚太洁净技术工程接连获得了北京小汤山医院、武汉火神山医院、武汉雷神山医院等近百家医院的青睐，以其洁净技术的杰出性能和净化实力，获得市场信任，树立用户口碑。

With excellent quality and considerate service, Yatai Group has made remarkable achievements. Its purification technology projects are successively favored by Xiaotangshan hospital in Beijing, Huoshenshan hospital and Leishenshan hospital in Wuhan. The outstanding performance of clean technology and purification strength have gained market trust for Yatai Group and established its reputation among users.



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