Shenzhen Xiangnan High-tech Purify Machine Co.,Ltd

Professional Air Filters MaKer

http://www.saf-airfilters.com/

From Shenzhen China

Johnny

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SAF is the China oldest in air filters and clean air solutions.
From 2002. Decades of experience in developing and manufacturing sustainable clean air solutions that protect people, processes and the environment against harmful airborne particles, gases and emissions. These solutions are used globally to benefit human health, increase performance and reduce energy consumption in a wide range of air filtration applications. Our 5000 SqM manufacturing plants, six R&D sites,and thorough supply chains provide service and support to our customers around the world. SAF is headquartered in Shenzhen China. Group sales total more than RMB 1 billion per year.
These filters can be as small as a matchbox but as large as a shipping container. Their end product is clean air free of harmful or damaging pollutants, dust, dirt, allergens, contaminants, molecular gases and, in some cases, even life-threatening radiation, depending on the application.
SAF filters improve people's health and well-being. They protect critical manufacturing processes, boost productivity and safeguard the environment.

Using CNC punching/ bending machines, laser beam cutting, Auto media pleating machines,PU vacuum embedding set, Auto glue dispensing machines proving high precise gas-tight and perfect finishing products
To show how professional: Welcoming for your visit, welcome to Shenzhen China !

Coarse filters: G2-G4

1,Pleated panels for molecular filtration

Pleated panels for molecular filtration are compact, two in one particle and odour pre-filters which can be used in applications like offices and public buildings where coarse particles, odours and gases needs to be removed

Advantages:

- “2 in 1” filtration solution;particulate and molecular.
- Rapid Adsorption Dynamics (RAD)
- Ozone rating Oz5 or Oz6
- 100% incinerable
- Can be used upgrade existing installations
- Lightweight and clean
- Price: US2.8-16/piece

Application: Combination filtration to achieve particle pre-filtration and control of low level gaseous pollutants. Typical applications include IAQ improvement in city centre buildings,shopping malls and other public buildings
Type: Pleated Panel
Frame: Water resistant cardboard
Media: Synthetic/Activated Carbon
Dimensions: Filter front dimensions according EN 15805
Maximum airflow: 1,25 x nominal flow
Temperature max: 40ºC
RH. max: 70%
Mounting frames: Front and side access housings and frames are available

Standard specification

model	Outside Dimensions (mm)	Rated air flow (m3/h)	Initial resistance (Pa)	Efficiency(class)		Model of filter media
XN-CXP-8J	295×295×10/20mm 12″ ×12″ ×1/2″ /1″	800m³/h	25Pa	40% Arrestance	G1 G2 G3	Nylon nets Early effect filter cotton Corrugated aluminium nets
XN-CXP-13J	495×295×10/20mm 20″ ×12″ ×1/2″ /1″	1300m³/h				
XN-CXP-22J	495×495×10/20mm 20″ ×20″ ×1/2″ /1″	2200m³/h				
XN-CXP-16J	595×295×10/20mm 24″ ×12″ ×1/2″ /1″	1600m³/h				
XN-CXP-27J	595×495×10/20mm 24″ ×20″ ×1/2″ /1″	2700m³/h				
XN-CXP-32J	595×595×10/20mm 24″ ×24″ ×1/2″ /1″	3200m³/h				

According to user requirements to customize different specifications and types of filters

2,Pleated panels

Pleated panels plays an important role in extending lifetime and IAQ of Air Handling Units in Residential, Commercial buildings, Hospitals or even Make up units for Clean Processes
Prefilters are meant to protect fine filters in all applications by capturing larger particles such as coarse and PM10 both in Air Intake or recirculation air.
30/30 is a high efficiency pleated panel with water resistant cardboard frame
Aeropleat is a family of pleated panels with cardboard frame (Eco), plastic frame (Green) and metal frame.

Advantages:

- Water resistant cardboard frame
- Conception with girders/crossbars
- Diagonal stiffner stuck to media to keep the spacing of folds, protect and maintain the filter
- Fully supported media bonded onto a wire support grid
- Rounded pleats for a maximum capacity of dustretention and facilitate airflow through the media
- Replaceable filter media
- Metal rigid frame for demanding applications. Fire classified M1
- Low pressure drop media resulting in low energy costs
- Robust construction for reliable operation
- High mechanical strength
- Large media surface
- Unique radial pleat design
- Bonded into case to eliminate air bypass
- Price: US1.5-7/piece

Application:
Primary filter for air conditioning systems , stand up to the worst conditions, HVAC system with no filter distortion or blowouts.
Type: Pleated Panel
Frame: Water resistant cardboard / Metal
Media: Synthetic / Cotton
Dimensions: Filter front dimensions according EN 15805
Maximum airflow: 1,25 x nominal flow
Temperature max: 90ºC
RH. max: 100%
Mounting frames: Front and side access housings and frames are available
Efficiency : G4

More information:
The Water resistant cardboard media is a blend of cotton and polyester and proven to keep a low pressure drop during the filter's lifetime. The media is backed with a corrosion-resistant wire backing that eliminates distortion of the media pack under high air flow conditions.
The panel Pleat family consists of three products: All panel Pleat family pleated panels are low-energy-consuming products because of their unique SAF media. The large amount of media and pleats also helps lower the pressure drop for reduced energy consumption. Equipped with wire backing that is very corrosion-resistant, the media can withstand high air flows and humid applications.
panel Pleat family Eco has a beverage board suited for humid applications. It is lightweight, very easy to handle and fulfils most European regulations for incinerable products.
panel Pleat family t Green has a water-resistant plastic frame. It is 50% lighter than panel Pleat family Metal, and like panel Pleat family Eco, can be incinerated in accordance with most European standards.
panel Pleat family Metal has a galvanized steel frame and M1 fire classification (French standard).
The panel Pleat family family is suitable as pre-filters in two-stage filtration systems but can also be used in small air handling units, roof-top applications and other stand-alone systems

3,Bag Filters

SAF Hi-Cap bag filter with synthetic media is used for comfort air conditioning and pre-filter applications.
The Hi-Cap has a metal frame and moulded plastic frame. is perfect for indoor air quality applications whereby particulate matter and molecular

contamination must be controlled with the lowest possible energy consumption in the smallest form factor. Examples include office buildings, airports, educational establishments, polluted industrial area, cities with heavy traffic pollution, seasonal haze removal, museums. Target gases include nitrogen dioxide, ozone and volatile organic compounds (VOC).

- Rigid self supporting pockets
- Moulded, stable and aerodynamic plastic header in one piece
- High mechanical strength
- Welded pocket construction
- Optimized media surface by conical pocket shape
- Easy installation
- Robust construction
- Robust metal header frame
- High dust holding capacity
- Efficiency: G4Plastic moulded
- Price: US1-7 /set

Application:

1 Pre-filtration for removing the largest particles in an air conditioning system

2 Prefilter for air conditioning and ventilation systems

Type: Bag Filter

Frame: steel/Galvanized steel /Plastic moulded

Media: Synthetic

Dimensions: Filter front dimensions according EN 15805

Maximum airflow: 1,25 x nominal flow

Temperature max: 80ºC

RH. max: 100%

Mounting frames: Front and side access housings and frames are available

Mounting frames: Front and side access housings and frames are available

4,Media

Synthetic Media Rolls

Media rolls can be used as pad pre-filters in air handling units, but also as filters in paint booths and similar applications.

Fan coil filters prevent dust and dirt from building up on heating and cooling coils in ventilation systems.

- **Fan Coil Filters**

- Robust
- Progressively built-up termal bonded polyester fiber
- No-toxic.non-allergenic
- Efficiency G3

Application:

Prevention of dust and dirt build up on heating/cooling coils within ventilation systems use as a pre filter,

Type: Pad Filter

Frame: Metal

Media: Synthetic (covered with glue)
Temperature max: 70ºC
RH. max: 100%
Option:G3/ G4 or carbon impregnated for odour treatment
Arrestance efficiency: 65%~ 95%
MORE
fan coil filters are available in most sizes, both standard and non-standard, to fit any air handling unit. The filters are lightweight but still robust, due to the use of a metal wire frame for support. Fan coil filters can be used in most systems because of their low pressure drop.
The filters are also available with M1 fire classification, which is often required by the air handling unit manufacturer.

Media Rolls

- Available for all kind of applications

Application:
For use as a pre filter in air conditioning, and spray booth ventilation
Type: Media Roll
Media: Glass fiber
Rec. final pressure drop: 150 Pa
RH. max: 100%

Media rolls are used to cut pads ranging from small filter pads used in vacuum cleaners, to large sizes used in paint booth applications to ensure perfect painting results.

SAF supplies media rolls in different widths, thicknesses and filter classes to suit most applications.

Customers can also choose between synthetic media or higher performance glass fibre media.

SAF can also deliver pre-cut pads tailor-made to meet specific applications and needs

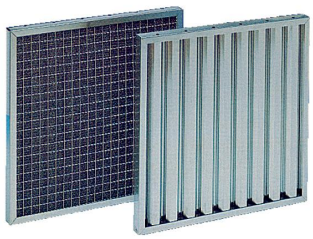
Standard specification

Model	Dimensions	Thickness	Velocity(m/s) Pressuredrop(Pa)	Final Resi. (Pa)	Efficiency (class)		Dust Holding Cap.(g)	Weigt Gr/sqm
SAF-AZ-150G	2×20 1×20	12mm	0.6/15	200	75%	G3	276	150
SAF-AZ-100G		10mm	2/18		65%	G2	235	100
SAF-AZ-200G		15mm	0.5/16		82%	G4	305	200
SAF-AZ-250GB		15mm	0.4/17		85%	G4	345	250
SAF-AZ-300G		18mm	0.45/16		88%	G4	385	300
SAF-AZ-150GB		13mm	0.6/15		72%	G3	254	150
SAF-AZ-200GB		15mm	0.55/15		77%	G4	285	200

Specification: general stock 1m*20m, 1.25m*20m, 1.6m*20m, 2m*20m. Also make according to customer's order.

5, Metal panels

The Metal panels are used as basic grease filters and in a wide variety of areas like for example:
as heavy duty filters in comfort ventilation, in oil mist separators, suction silencers, vibration silencers and seals
XN-Met metal panels are manufactured in a wide variety of materials, for example aluminium, stainless/acid-proof steel, galvanized steel and copper in most shapes and dimensions.
XN-Met Double Filter is a double panel with flame guard and knitting mesh.
XN-Met Metal Filter is a single panel with knitting mesh.



- Filter cells are made from aluminium, galvanized or stainless steelwire woven into a special pattern
- Prefilter suitable for cleanable dust, sand, flour, paint, oil
- Grease and oil filter with very high separation efficiency.
- Can be made in all customized sizes
- Can be cleaned in dishwasher or pressure washer.
- Very large cooling surface without excessive air resistance
- Efficiency:G2-G3

Application: Metal filter for grease or oil mist separation. Prefilter for thick particles
Type: Metal Panel
Frame: Stainless steel
Media: Stainless steel
Type: G2 Metal filter and high oil separation efficiency.
Frame: Aluminium EN-AW-6060, ALMG3, stainless steel AISI 304L, acid stainless steel AISI 316L, galvanized.
Media: Woven metal wire mesh. Can be made in aluminium, galvanized, stainless steel or acid stainless steel material.
Grating: Aluminium, Hot-dip galvanized expanded metal net or stainless steel grid.

6,Prosafe Selection

The ProSafe filters are designed to comply with the strict demands on safety, traceability and control in the Food & Beverage and Life Science industries.

- Specially designed for Process Safety (Food & Life Science applications)
- Rigid self supporting pockets
- Moulded, stable and aerodynamic plastic header in one piece
- High mechanical strength
- Compliant to EC 1935:2004
- Compliant to VDI 6022 / ISO 846
    - Specially designed for Process Safety (Food & Life Science applications)
    - The latest developed glass fibre media
    - Low initial pressure drop
    - Flat pressure drop curve

- New developed pocket design for the best air distribution
- Conical pockets
- Efficiency:M5-F8

Application: Pre-filtration for removing the largest particles in an air conditioning system

Type: Bag Filter

Frame: Plastic moulded / Steel

Media: Synthetic / Glass fiber

Sealant: Polyurethane

Dimensions: Filter front dimensions according EN 15805

Maximum airflow: 1,25 x nominal flow

Temperature max: 70ºC

RH. max: 100%

Mounting frames: Front and side access housings and frames are available

Standard specification

Model	Outside Dimensions (mm)	Rated air flow (m3/h)	Initial resistance(Pa)	Efficiency (class)	Media color	pockets
XN-ZXD-10	495×295×500mm 20″ ×12″ ×20″	1000m3/h	50Pa F5 55Pa F6 60Pa F7 65Pa F8	40-50% F5 60-70% F6 75-85% F7 85-95% F8 Dust-spot	(F5 White) (F6 Green) (F7 Pink) (F8 Yellow)	5
XN-ZXD-18	495×495×500mm 20″ ×20″ ×20″	1800m³/h				5
XN-ZXD-13	595×295×500mm 24″ ×12″ ×20″	1300m³/h				6
XN-ZXD-22	595×495×500mm 24″ ×20″ ×20″	2200m³/h				6
XN-ZXD-26	595×595×500mm 24″ ×24″ ×20″	2600m³/h				8
XN-ZXD-12	495×295×600mm 20″ ×12″ ×24″	1200m3/h				5
XN-ZXD-22	495×495×600mm 20″ ×20″ ×24″	2200m³/h				5
XN-ZXD-16	595×295×600mm 24″ ×12″ ×24″	1600m³/h				6
XN-ZXD-27	595×495×600mm 24″ ×20″ ×24″	2700m³/h				6
XN-ZXD-32	595×595×600mm 24″ ×24″ ×24″	3200m³/h				8

According to user requirements to customize different specifications and types of filter

7,Pleated panels

Pleated panels plays an important role in extending lifetime and IAQ of Air Handling Units in Residential, Commercial buildings, Hospitals or even Make up units for Clean Processes.
EcoPleat Green has a plastic frame and the Ecopleat Eco a water resistant cardboard frame. The pleated media is wet laid glass filter.
The M-Pleat Green has a plastic frame and synthetic pleated media.



- Large surface area
- Long operating life
- Ultra compact and ultra light
- Less frequent changes
- Low pressure drop
- High dust holding capacity (2 times more than a G4)=longer lifetime
- Robust and moisture resistant media
- Green and sustainable frame
- IAQ improvement: M5 + F7 twice as much as G4 + F7
- Against humidity
- Efficiency :M5-F9

Application:

Air conditioning or industrial processing systems and for mini air conditioning systems, individual modules and ventilation equipment

Type: Pleated Panel

Frame: ABS / Anodized aluminium/Water resistant cardboard

Media: Glass fiber /PP(polyester fiber)

Separator: Hot Melt

Dimensions: Filter front dimensions according EN 15805 Rec.final fressure drop acc.EN 13053:M5-F7:200 Pa, F8-F9:300 Pa

Maximum airflow: 1,1/ 1.3 x nominal flow

Temperature max: 80ºC

RH. max: 100%

Mounting frames: Front and side access housings and frames are available

Options: Gasket

More:

Due to its small size, EcoPleat Green can be installed in most air handling units. Close pleats ensure low energy consumption, a large filter area and low pressure drop.

The filter media used in EcoPleat Green has very fine fibres that guarantee efficient removal of submicron particles throughout the filter's lifetime. The removal efficiency can be as high as 10 times the efficiency of G4 pre-filters with efficiencies ranging from M5 to F8.

The water-resistant plastic frame provides extra assurance in high-humidity applications. Due to its frame, EcoPleat Green is also 50% lighter than the metal frame version for a smaller environmental impact and easier handling.

EcoPleat Green is well suited for commercial and residential air handling units, as well as other stand-alone systems for comfort applications.

EcoPleat is also sold with cardboard and metal frames.

（Standard specification）

Model	Outside dimensions (mm)	Rated air flow (m^3/h)	Initial resistance (Pa)	(Dust-spot) Efficiency (%)	Media
XN-YGX-10/12J	610×610×69/80	1000/1200	≤125	95(F8)/99(F9)	Polyester fibers(PP) Glass fiber
XN-YGX-15/18J	915×610×69/80	1500/1800	≤125	95(F8)/99(F9)	
XN-YGX-20/25J	1220×610×69/80	2000/2500	≤125	95(F8)/99(F9)	

According to user requirements to customize different specifications and types of filters

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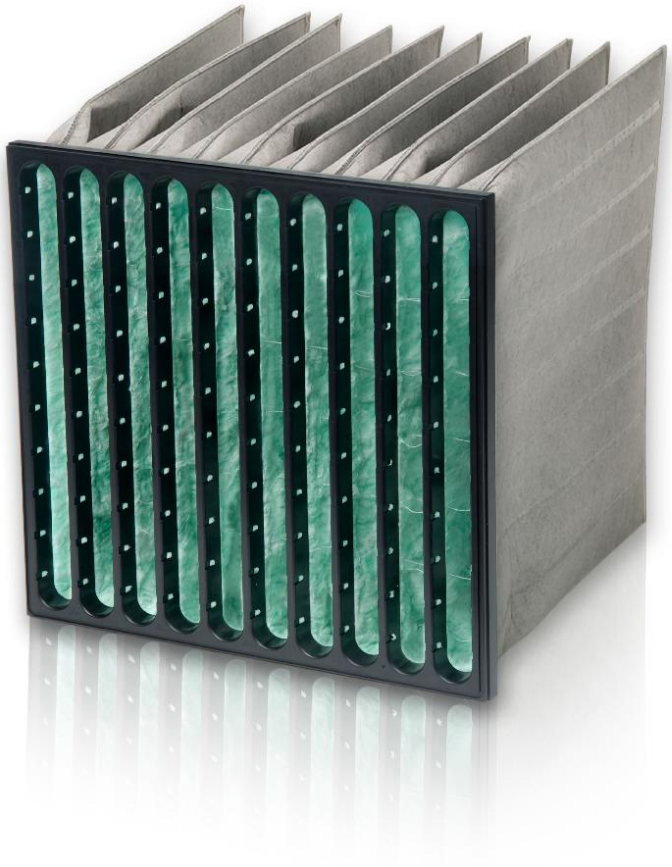
SAF®

XN- INTERNATIONAL

BAG FILTERS

8,Bag filters for molecular filtration

Pleated panels for molecular filtration are compact, two in one particle and odour pre-filters which can be used in applications like offices and public buildings where coarse particles, odours and gases needs to be removed



- Combined particle and molecular filter
- Low initial pressure drop
- Conical pockets
- Moulded, rigid and aerodynamic shaped plastic frame
- Double function: particle and molecular filtration

- Can be used to upgrade existing installations
- Ideal for filtering low concentrations of most external and internal source pollutants
- Robust metal header frame
- “2 in 1” filtration solution; particulate and molecule
- Range of standard sizes
- Rapid Adsorption Dynamics (RAD)

Application:

Particulate and molecular ,odour removal in Hospitals, Offices, Airports etc

Type: Bag Filter

Frame: Galvanized steel

Media: Glass fiber/Activated carbon

Dimensions: Filter front dimensions according EN 15805

Maximum airflow: 1,25 x nominal flow

Temperature max: 50ºC

RH. max: 80%

Mounting frames: Front and side access housings and frames are available

Efficiency: F7

More:

Built on the same concept as the bag series and its unique filter media and plastic frame. The glass-fibre and carbon media, a proprietary development, has a very low initial pressure drop leading to good filter economy and efficient removal of dust, particles and odour s.

It is easy to install in new and existing installations. It can replace standard particle filters without any change to the application.

It is an excellent air filter to improve IAQ in:

- Office buildings
- Shopping centres
- Schools and other public buildings situated in urban areas with heavy traffic

It is also highly efficient at filtering ozone and is Eurovent-certified.

9,Bag Filters

The Hi-Flo family contains of a variety of bagfilters with steel frames (-M, -TM, -P, -UF, -A) and moulded plastic frames (-XLT, XLS) with glass fibre media.
The Standard-Flo bag filter is a bag filter with glass fibre media.
The Basic-Flo bag filter contains of a steel frame and synthetic fibre media

- Filter material of newly developed plastic fibre media
- Low initial pressure loss, flat development
- Newly-developed seam technique for better air distribution
- Conical pockets and self-supporting bags
- High mechanical strength
- High dust holding capacity, Less energy consumption
- Especially recommended for second stage filtration
- Economy version
- Installations exposed to turbulence and/or recurrent high humidity
- Conical bags for optimized performance

- Quick and easy mounting
- Robust metal header frame
- Quick and easy mounting
- Flat pressure drop curve
- Moulded, rigid and aerodynamic shaped plastic or steel frame
- Efficiency: M5-M6

Application:

Air filtering in standard ventilation systems , prefilter applications

Type: Bag Filter

Frame: Metal / Galvanized steel

Media: New composite nonwoven fabric/ Synthetic/ Glass fiber

Dimensions: Filter front dimensions according EN 15805

Maximum airflow: 1,25 x nominal flow

Temperature max: 80ºC

RH. max: 90%

Mounting frames: Front and side access housings and frames are available

More:

Glass fiber bag filters is a series of energy-efficient ventilation filters with unique performance standards and a wide area of usage. Glass fiber bag filters are designed to fit all kinds of commercial and industrial HVAC installations. They clean the air from particles and improve indoor air quality and workplace conditions.

When air flows as freely as possible through the pockets of an air filter, with no resistance, the filter will perform better. In Glass fiber bag filters this is achieved with perfectly conical pockets based a newly developed seam design and stitching technique. This bag construction distributes air over the entire filter surface for maximum use of the filter media. The filter bags have a tapered shape and will not touch the top or bottom of the air handling unit.

The filter media has been developed to lower the energy costs of HVAC systems. The initial pressure drop is low and will have a flat curve development over time. Particle efficiency meets requirements according to the European standard EN779:2002 for IAQ.

All these features considerably reduce the life cycle cost of XN-ZXD bag filters.

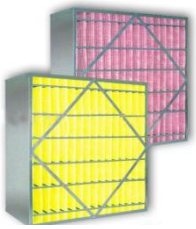
The Hi-Flo XLT series has a robust and aerodynamically designed plastic frame for the best air distribution. In certain filter units, the back side of the frame is equipped with nocks that protect the filter media from sharp edges.

Hi-Flo XLT series is a Eurovent-certified and P-marked

Standard specification

Model	Outside Dimensions (mm)	Rated air flow (m3/h)	Initial resistance(Pa)	Efficiency (class)	Media color	pockets
XN-ZXD-10	495×295×500mm 20″ ×12″ ×20″	1000m3/h	50Pa F5 55Pa F6 60Pa F7 65Pa F8	40-50% F5 60-70% F6 75-85% F7 85-95% F8 Dust-spot	(F5 White) (F6 Green) (F7 Pink) (F8 Yellow)	5
XN-ZXD-18	495×495×500mm 20″ ×20″ ×20″	1800m³/h				5
XN-ZXD-13	595×295×500mm 24″ ×12″ ×20″	1300m³/h				6
XN-ZXD-22	595×495×500mm 24″ ×20″ ×20″	2200m³/h				6
XN-ZXD-26	595×595×500mm 24″ ×24″ ×20″	2600m³/h				8
XN-ZXD-12	495×295×600mm 20″ ×12″ ×24″	1200m3/h				5
XN-ZXD-22	495×495×600mm 20″ ×20″ ×24″	2200m³/h				5
XN-ZXD-16	595×295×600mm 24″ ×12″ ×24″	1600m³/h				6
XN-ZXD-27	595×495×600mm 24″ ×20″ ×24″	2700m³/h				6
XN-ZXD-32	595×595×600mm 24″ ×24″ ×24″	3200m³/h				8

According to user requirements to customize different specifications and types of filter



Standard specification

Model	Outside Dimensions (mm)	Rated air flow (m3/h)	Initial resistance(Pa)	Efficiency (class)	Media colors	Fold times
XN-ZXD-13	495×295×295mm 20″ ×12″ ×12″	1300m3/h	50Pa F5 55Pa F6 60Pa F7 65Pa F8	40-50% F5 60-70% F6 75-85% F7 85-95% F8 Dust-spot	(F5 White) (F6 Green) (F7 Pink) (F8 Yellow)	8
XN-ZXD-22	495×495×295mm 20″ ×20″ ×12″	2200m³/h				10
XN-ZXD-16	595×295×295mm 24″ ×12″ ×12″	1600m³/h				14
XN-ZXD-27	595×495×295mm 24″ ×20″ ×12″	2700m³/h				14
XN-ZXD-32	595×595×295mm 24″ ×24″ ×12″	3200m³/h				18

According to user requirements to customize different specifications and types of filter

10,Compact filters for molecular filtration

The compact filters are 2 in 1 solution with particle- and molecular filtration in the same media. Carb are installed in both new and existing installations. It´s easy to replace standard particle filters with the Carb to improve the indoor air quality (IAQ) in applications such as office buildings, shopping centers, schools and other public buildings situated in urban areas with heavy traffic. The Carb CH is specially designed to protect artefacts in museums, archives and galleries.

- Compact “2 in 1” filtration solution; particulate and molecular
- Ideal for filtering organic acids,
- 100% incinerable
- Can be used to upgrade existing installations

  range of standard sizes rapid Adsorption Dynamics (RAD)
- Filter class F7 acc. EN 779:2012
- 100% incinerable
- Efficience:M6-F7

Application:

Particle and odour removal in museums, art galleries, libraries(M6), offices, hospitals, airports(F7) etc

Type: V-Bank Filter

Frame: Plastic / Polypropylene

Gasket: Polyurethane, endless foamed

Media: Synthetic/Activated Carbon

Dimensions: Filter front dimensions according EN 15805

Maximum airflow: 1,25 x nominal flow

Temperature max: 50ºC

RH. max: 70%

Mounting frames: Front and side access housings and frames are available

More:

A compact filter with an additional molecular filtration media layer to provide enhanced IAQ（Indoor Air Quality） through combined particle filtration and gas filtration. It is the ultimate solution when a high performance compact filter and a high performance molecular (gas, odour) filter must be installed in a single location. High efficiency particle filtration media is combined with an exclusive" targeted" molecular filtration media that exploits the benefits of "Rapid Adsorption Dynamics" (RAD) to specifically remove low molecular weight organic acids. These contaminants are unavoidably released from wood and paper based artefactsin cultural heritage establishments due to the degradation of cellulosic polymers. As the target pollutants are from internal sources, filter should be mounted in the recirculation or return air system. It is also extremely effective against the external source pollutants; ozone and nitrogen dioxide. The filter should be replaced when the pressure loss exceeds the maximum allowable value for the ventilation system o rafter a maximum of one year. In accordance with good practice, used It should be bagged immediately after removal and disposed of by the appropriate route.

The Activated Carbon filter utilizes a highly effective broad spectrum carbon media layer to ensure removal of a very wide range of airborne chemicals.
The broad spectrum carbon operates with a Rapid Adsorption Dynamics (RAD) mechanism that is specifically designed to be highly efficient against the multiple chemicals that are typically present in low or moderate concentrations in city-centre buildings or other locations.
The Activated Carbon filter provides class F7 particle filtration according to EN 779 (2002). A high media area ensures high efficiency, long life and low pressure drop.

11，Compact filters

Heavy duty

ProCarb products are heavy duty deep-bed industrial solutions for leak-free control of molecular contaminants present in the air at high concentration levels (often >1 ppmv) or applications having high regulatory requirement on emission levels. ProCarb filters are typically used for industrial exhaust applications, smell control, or corrosion control. Examples include petrochemical facilities, waste water treatment, pulp and paper mills, foam manufacturing or waste handling facilities.
ProCarb vertical deep bed VDBe is a product for exhaust air applications whereas VDBs is used for supply air. Both are high capacity solutions.
ProCarb horizontal deep bed HDB and horizontal deep cell units HDC are more flexible solutions with smaller footprint used for both supply and exhaust air.
Compact Filters are often used as second filter stage in the supply air, either as last filter stage for comfort applications or as second prefilter stage for clean process applications.
Compact filters need less space (depth) in air handling systems than bag filters:
Opakfil ES is a A+ compact filter with very low energy consumption.
Opakfil ST is a compact filter with low energy

- Long operating life
- Light and robust
- Very low Energy Consumption
- Less frequent changes
- Certified performance optimised for LCC
- Aerodynamic radial design
- Low pressure drop
- Improves overall filter economy

- Fully incinerable
    - Specially designed for Process Safety (Food & Life Science application)
    - Food compliant - EC1935:2004
    - Anti-microbial growth certified (ISO846 - VDI6022)
    - Sealed bag for transport through clean room
    - The latest developed glass fiber media with high water repelancy
    - Lower energy costs
    - Light and easy maintenance through handles
- Delivered in standard with continuous PU gasket for efficiency warranty
- Ensures water drainage
- High filtration efficiency
- Low pressure drop also in wet conditions
- Resistant to turbulence and extreme pressure drop
- Meets the industry's latest and most stringent requirements
- Water resistant media
- Efficiency: M6-F9

Application:

1 Air conditioning applications and preparatory filtration in clean rooms ,

2Replacement of gravimetric filters, Air Handling Units, Industrial processes and individual modules (reducing plant energy and IAQ improvement)

3Suitable for demanding operating conditions like heavy polluted rural or industrial areas

Type: V-Bank Filter

Frame: ABS /Plastic moulded

Media: Glass fiber

Separator: Hot Melt Separator Technology

Sealant: Polyurethane

Dimensions: Filter front dimensions according EN 15805

Maximum airflow: 1,25 x nominal flow

Temperature max: 80ºC

RH. max: 100%

Mounting frames: Front and side access housings and frames are available

Gasket: Polyurethane, endless foamed

Rec. final pressure drop: 450 Pa

Standard specification

Model	Outside dimensions (mm)	Rated air flow (m^3/h)	Initial resistance (Pa)	(Dust-Spot) Efficiency (%)	Filter materials
XN-YGX2V-8J	287×287×292	800	⩽125	95(F8)/99(F9)	Polyester fibers (PP) Glass fiber
XN-YGX3V-12J	490×287×292	1200	⩽125	95(F8)/99(F9)	
XN-YGX3V-20J	490×490×292	2000	⩽125	95(F8)/99(F9)	
XN-YGX3V-20J	592×490×292	2000	⩽125	95(F8)/99(F9)	
XN-YGX4V-22J	592×490×292	2700	⩽125	95(F8)/99(F9)	
XN-YGX4V-16J	592×287×292	1600	⩽125	95(F8)/99(F9)	
XN-YGX3V-22J	592×592×292	2400	⩽125	95(F8)/99(F9)	
XN-YGX4V-32J	592×592×292	3200	⩽125	95(F8)/99(F9)	

According to user requirements to customize different specifications and types of filters

- Compact HEPA filter with header frame
- Incinerable
- Efficiency: M6-E10

Application: High efficiency final filtration in air conditioning systems and industrial processes

Type: V-Bank Filter

Frame: Polypropylene

Gasket: Polyurethane, endless foamed

Media: Glass fiber

Separator: Hot Melt

Sealant: Polyurethane

EN 1822 (Efficiency @ MPPS): E11(≥95%), H13(≥99,95%)

Rec. final pressure drop: 2x Initial pressure drop

Max. final pressure drop: 500 Pa

Temperature max: 80ºC

RH. max: 100%

Remarks: All filter scan-tested acc. EN 1822:2009 and individually packed in PE-foil. Other editions on request

12，Deap pleated filters

Airopac is a deep pleated filter with and without header frame. It´s used for air conditioning applications and preparatory filtration in clean rooms.

The Airopac High Temp is designed for high temperature applications.

- High efficiency
- High temperature
- Silicon free construction
- Compact design
- Low pressure drop
- Robust metal header frame
- Large surface area
- Rigid design concept
- High dust holding capacity
- Efficiency: M6—F7

Application:

1,Paint bake ovens and other high temperature applications

2 Air conditioning applications and preparatory filtration in clean rooms

Type: High temperature compact Pleated filter
Frame: Galvanized steel
Media: Glass fiber
Separator: Aluminium
Sealant: Glass fiber / Polyurethane
Gasket: Braided glass fiber
Grille, Upstream: Galvanized steel
Grille, Downstream: Galvanized steel
Dimensions: Filter front dimensions according EN 15805
Temperature max: 250ºC
Maximum airflow: 1,15 x nominal flow
Mounting frames: Front and side access housings and frames are available

13，Prosafe Selection

The ProSafe filters are designed to comply with the strict demands on safety, traceability and control in the Food & Beverage and Life Science industries.

- Prefilter M5 according EN779:2012
- Large filtration surface
- Low pressure drop
- High dust holding capacity (2 times more than a G4)=longer lifetime
- Robust and moisture resistant media

- Green and sustainable frame
- Ultra compact size
- Efficiency: M5-F9
- IAQ improvement: M5 + F7 twice as much as G4 + F7

Application:

1Replacement of gravimetric filters, Air Handling Units, Industrial processes and individual modules (reducing plant energy and IAQ improvement)

2, Air conditioning and ventilation system of high end protection

Type: Pleated Panel

Frame: Aluminum alloy /ABS

Media: Glass fiber / polyester fiber (PP)/ Synthetic

Separator: Hot Melt

Dimensions: Filter front dimensions according EN 15805

Maximum airflow: 1,3 x nominal flow

Temperature max: 80ºC

RH. max: 100%

Mounting frames: Front and side access housings and frames are available

Options: Gasket

Standard specification

Model	Outside dimensions (mm)	Rated air flow (m^3/h)	Initial resistance (Pa)	(Dust-spot) Efficiency (%)	Media
XN-YGX-10/12J	610×610×69/80	1000/1200	⩽125	95(F8)/99(F9)	Polyester fibers(PP) Glass fiber
XN-YGX-15/18J	915×610×69/80	1500/1800	⩽125	95(F8)/99(F9)	
XN-YGX-20/25J	1220×610×69/80	2000/2500	⩽125	95(F8)/99(F9)	

According to user requirements to customize different specifications and types of filters

Email: johnny@xn-gk.com

EPA, HEPA, ULPA FILTERS E10-U17

A few uncollected particles or gas molecules can have extremely serious consequences in some processes. Just imagine what harm contaminated air could do to the manufacture of semiconductors, pharmaceuticals and to other sensitive processes.
Different processes need different levels of air cleaning, so an important part of our business concept is to help you analyse and specify your requirements. We have a complete range of filter solutions to satisfy your every need.

14，Absolute

Box type HEPA filter for low and medium airflows with metal- (CET) and MDF- (CMT) and wooden frame. For high airflows with metal- (DE) and plastic- (DG) frame.

Deep Pleat Hepa Air Filters With Seperator

- Compact design concept
- Very high efficiency

- Incinerable
- Scannable
    - Rated airflow capacity of up to 3400 m³/h 610x610 (H13)
    - Halogen free
    - Flexible in the dimensions
    - Lightweight and installation friendly
    - VDI 6022
    - Efficiency : H13-H14

Application:

1. Used in industrial filtration equipment: electronics , semiconductor , sophisticated instruments...

2. Used as the final filters of A/C system in clean room. Pharmaceuticals ,hospital ,food, beverage etc.

HEPA filter for standard applications and high air flows

Type: Box Filter

Frame: MDF / Wooden/alumi sheet/Galvanized/alumi alloy frame

Efficiency:F8-F9/H10-H14/U15-U17

EN 1822 (Efficiency @ MPPS): H13(≥99,95%)

Gasket: Polyurethane, endless foamed

Media: Glass fiber

Separator: alumi foil/ paperboard

Sealant: AB glue(epoxy / polyurethane)

Rec. final pressure drop: 2x Initial pressure drop

Max. final pressure drop: 800 Pa

Maximum airflow: Nominal flow rate (if not, efficiency drops)

Temperature max: 80ºC

RH. max: 100%

Remarks: All filters scan tested acc. EN 1822

Mounting frames: FKB, FKB/D, XN-Box

FOB price: **US $15 - 50 / Piece**

Standard specification

Model	Outside dimensions (mm)	Rated air flow (m^3/h)	Initial resistance (Pa)	(Dust-spot) Efficiency (%)	Dust capacity (g)
XN-GX-2.5J	305×305×150	250	⩽220	⩾99.99	200
XN-GX-4J	320×320×220	400	⩽220	⩾99.99	350
XN-GX-6J	484×484×150	600	⩽220	⩾99.99	400
XN-GX-10J1	484×484×220	1000	⩽220	⩾99.99	600
XN-GX-15J1	726×484×220	1500	⩽220	⩾99.99	900
XN-GX-20J1	968×484×220	2000	⩽220	⩾99.99	1200
XN-GX-10J2	610×610×150	1000	⩽220	⩾99.99	600
XN-GX-15J2	915×610×150	1500	⩽220	⩾99.99	900
XN-GX-20J2	1220×610×150	2000	⩽220	⩾99.99	1200
XN-GX-16J	630×630×220	1600	⩽220	⩾99.99	900
XN-GX-24J	945×630×220	2400	⩽220	⩾99.99	1400
XN-GX-32J	1260×630×220	3200	⩽220	⩾99.99	1800
XN-GX-22J	610×610×292	2200	⩽220	⩾99.99	1200
XN-GX-33J	915×610×292	3300	⩽220	⩾99.99	1800
XN-GX-44J	1220×610×292	4400	⩽220	⩾99.99	2400

According to user requirements to customize specifications and types of filters

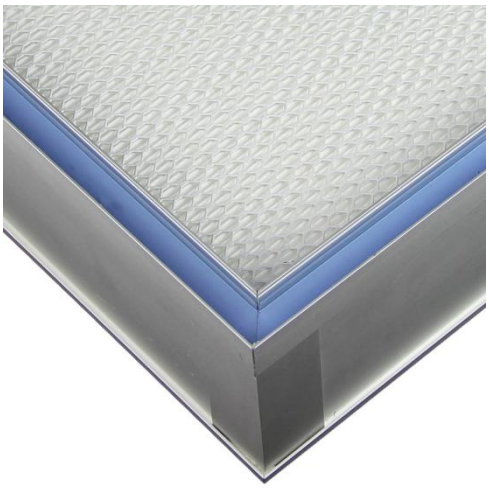
15， V-Bank Box Filter

- High air flow
- Applicable up to 4000 m³/h air flow
- Low pressure drop

- Ergonomic handle
- Optimize the air filtration in clean rooms
    - Individual tested acc. to EN 1822:2009
    - Efficiency : H13-H14

Application: Very high efficiency final filtration in air conditioning systems, housings and diffusers
Type: V-Bank Box Filter
Frame: Galvanised steel / Wooden
Gasket: EPDM / EVA
Media: Glass fiber
Separator: Hot Melt
Sealant: Polyurethane
EN 1822 (Efficiency @ MPPS): H13(≥99,95%), H14(≥99,995%)
Rec. final pressure drop: 2x Initial pressure drop
Max. final pressure drop: 600 Pa
Temperature max: 70ºC
RH. max: 100%
Mounting frames: FKB, FKB/D, XN-Box
Remarks: Special versions on request (e.g. stainless steel frame or high temperature version 120ºC)

16,Silicone sealed HEPA filter



- Compliant to VDI 6022
- Microbial inert components acc. to ISO 846
- Tested for Food Contact acc. to EC 1935:2004

- Free of bisphenol-A, phthalate and formaldehyde
- Chemically resistant to inactivation and cleaning procedures

Application:
HEPA filter for clean rooms and LAF benches
Type: Pleated Panel
Frame: Anodized aluminium
Gasket: Silicone Gel
Media: Glass fiber
Separator: Hot Melt
Sealant: Polyurethane
Grille, Upstream: Expanded metal painted (RAL 9010)
Grille, Downstream: Expanded metal painted (RAL 9010)
EN 1822 (Efficiency @ MPPS): H14(≥99,995%)
Rec. final pressure drop: 2x Initial pressure drop
Max. final pressure drop: MD: 500 Pa, MX: 600 Pa, MG: 800 Pa
Maximum airflow: Nominal flow rate (if not, efficiency drops)
Temperature max: 80ºC
RH. max: 100%
Remarks: Individually scantested acc. EN 1822:2009 with protocol and packed in PE-foil. Compliant with ProSafe requirements. Other editions on request

17,Silent Hood filter

- H14 compact filter-diffuser for clean room
- Ready to install
- Quiet: LW = 35 dB
- Laminarity +/- 20%
- Efficiency:H14

Application:
Final filtration for clean rooms
Type: Hood Filter
Frame: Anodized aluminium
Gasket: Neoprene
Media: Glass fiber
Separator: Hot Melt
Sealant: Polyurethane
Grille, Downstream: Expanded metal painted (RAL 9010)
EN 1822 (Efficiency @ MPPS): H14 (≥99,995%)
Max. final pressure drop: MD: 500 Pa; MX: 600 Pa; MG: 800 Pa
Maximum airflow: Nominal flow rate (if not, efficiency drops)
Temperature max: 80ºC
RH. max: 100%
Connection: Spigot with outer diameter 160 mm, 250 mm or 315 mm depending on the model
Remarks: Individually scan-tested acc. EN 1822:2009 with protocol and packed in PE-foil. Other editions on request

18,Megalam

The Megalam filters are HEPA and ULPA filter panels designed for terminal filtration in applications such as Cleanroom ceilings, Isolators, RABS and many more and for products like Fan filter units and terminal housings.
The filters has three different depths, MD, MX and MG, and has a PU halfround gasket or a GEL gasket.
The Megalm Fabsafe is developed for safe use in microelectronic cleanrooms and equipment.
The Megalam ES (= Energy Saving) Fabsafe is for low energy usage.

- Developed for safe use in microelectronic cleanrooms and equipment

- Ideal for nanoparticle filtration (100 nm)
- High dust holding capacity
- 100% filter scan test for guaranteed performance
- Filter scanned according to EN1822, IEST or other required standards
- Individual efficiency test reports
- Zero leak guarantee
- No organic outgassing from test aerosol
- Low outgassing adhesives and gasket (no organic flame retardant)
- Manufactured and packed in clean room environment
- Efficiency: H13-U16

- Energy savings through use of synthetic PTFE membrane technology
- Compact solution
- Individual efficiency test reports
- No organic outgassing from test aerosol
- Dopant free component

Application: Microelectronic cleanrooms and equipment. Nanoparticle filtration / Low energy usage / LAF benches
Type: Pleated Panel
Frame: Anodized aluminium
Gasket: EPDM / Polyurethane, endless foamed
Media: Glass fiber / Membrane
Separator: Hot Melt Separator Technology / Polyurethane
Sealant: Polyurethane
Grille, Upstream: Expanded metal painted (RAL 9010)
Grille, Downstream: Expanded metal painted (RAL 9010)
EN 1822 (Efficiency @ MPPS): H14(≥99,995%), U15(≥99,9995%)
Rec. final pressure drop: 2x Initial pressure drop
Max. final pressure drop: MD: 500 Pa; MX: 600 Pa

Temperature max: 80ºC
RH. max: 100%
Test: 100% individual scan test according to EN1822, IEST RP-CC007 or required standard
Test aerosol: PSL. Oil free
Fire rating: UL900
Remarks: Many frame options and dimensions are available on request . with protocol and packed in PE-foil. Compliant with ProSafe requirements. Other editions on request

Standard specification

Model	Outside dimensions (mm)	Rated air flow (m3/h)	Imitial resistance (Pa)	(Dust -spot) Efficiency (%)	Dust capacity (g)
XN-GXW-7J	610×610×50	700	≤220 或≤140（HV）	≥99.999(H14)	450
XN-GXW-10J1	915×610×50	1000	≤220 或≤140（HV）	≥99.999(H14)	680
XN-GXW-14J	1220×610×50	1400	≤220 或≤140（HV）	≥99.999(H14)	900
XN-GXW-10J2	610×610×69	1000	≤220 或≤140（HV）	≥99.999(H14)	560
XN-GXW-15J	915×610×69	1500	≤220 或≤140（HV）	≥99.999(H14)	840
XN-GXW-20J	1220×610×69	2000	≤220 或≤140（HV）	≥99.999(H14)	1120
XN-GXW-12J	610×610×80	1200	≤220 或≤140（HV）	≥99.999(H14)	650
XN-GXW-14J	610×610×90	1400	≤220 或≤140（HV）	≥99.999(H14)	750
XN-GXW-16J	610×610×100	1600	≤220 或≤140（HV）	≥99.999(H14)	850
XN-GXW-18J	1170×570×69	1800	≤220 或≤140（HV）	≥99.999(H14)	1000
XN-GXW-22J	1170×570×80	2200	≤220 或≤140（HV）	≥99.999(H14)	1250
XN-GXW-25J	1220×610×80	2500	≤220 或≤140（HV）	≥99.999(H14)	1300
XN-GXW-28J	1220×610×90	2800	≤220 或≤140（HV）	≥99.999(H14)	1500
XN-GXW-32J	1220×610×100	3200	≤220 或≤140（HV）	≥99.999(H14)	1700

19,Anti- microbial

- Compliant to VDI 6022
- Microbial inert components acc. to ISO 846
- Tested for Food Contact acc. to EC 1935:2004
- Free of bisphenol-A, phthalate and formaldehyde
- Chemically resistant to inactivation and cleaning procedures
- Efficiency:U15

Application: ULPA filter for clean rooms and LAF benches

Type: Pleated Panel

Frame: Anodized aluminium

Gasket: Polyurethane, endless foamed

Media: Glass fiber

Separator: Hot Melt

Sealant: Polyurethane

Grille, Upstream: Expanded metal painted (RAL 9010)

Grille, Downstream: Expanded metal painted (RAL 9010)

EN 1822 (Efficiency @ MPPS): U15(≥99,9995%)

Rec. final pressure drop: 2x Initial pressure drop

Max. final pressure drop: MD: 500 Pa, MX: 600 Pa, MG: 800 Pa

Maximum airflow: Nominal flow rate (if not, efficiency drops)

Temperature max: 70ºC

RH. max: 100%

Remarks: Individually scan-tested acc. EN 1822:2009 with protocol and packed in PE-foil. Compliant with ProSafe** requirements. Other editions on request

Standard specification

model	Outside dimensions (mm)	Rated air flow (m^3/h)	Initial resistance (Pa)	Efficiency (%)	Dust capacity (g)
XN-KGXW-7J	610×610×50	700	⩽220/⩽140（HV）	⩾99.99	450
XN-KGXW-10J1	915×610×50	1000	⩽220/⩽140（HV）	⩾99.99	680
XN-KGXW-14J	1220×610×50	1400	⩽220/⩽140（HV）	⩾99.99	900
XN-KGXW-10J2	610×610×69	1000	⩽220/⩽140（HV）	⩾99.99	560
XN-KGXW-15J	915×610×69	1500	⩽220/⩽140（HV）	⩾99.99	840
XN-KGXW-20J	1220×610×69	2000	⩽220/⩽140（HV）	⩾99.99	1120
XN-KGXW-12J	610×610×80	1200	⩽220/⩽140（HV）	⩾99.99	650
XN-KGXW-14J	610×610×90	1400	⩽220/⩽140（HV）	⩾99.99	750
XN-KGXW-16J	610×610×100	1600	⩽220/⩽140（HV）	⩾99.99	850
XN-KGXW-18J	1170×570×69	1800	⩽220/⩽140（HV）	⩾99.99	1000
XN-KGXW-22J	1170×570×80	2200	⩽220/⩽140（HV）	⩾99.99	1250
XN-KGXW-25J	1220×610×80	2500	⩽220/⩽140（HV）	⩾99.99	1300
XN-KGXW-28J	1220×610×90	2800	⩽220/⩽140（HV）	⩾99.99	1500
XN-KGXW-32J	1220×610×100	3200	⩽220/⩽140（HV）	⩾99.99	1700

20,High Temperature filters

The High Temperature Filters are typically used in the Pharma industry for depyrogenation tunnels and ovens.
Aseptic filling lines incorporate those to have absolutely sterile vials for filling the medical products.
The Absolute D-Pyro is designed for high temperature environments requiring maximum production uptime and safety and achieves filterclass H14.

- ≥99,95% at MPPS with DEHS
- Temperature resistant up to 250ºC-350ºC
- Constant efficiency
- High mechanical strength
- High air flow
    - Meets FDA requirements
    - Maximum continuous operating temperature 350ºC, efficiency 99,99% at 0,3 µm
    - Ceramic frame
    - Exclusive precuring process at 300ºC carried out in the plant
    - Efficiency tested after precuring

Application:

1,Protection for clean processes at high temperatures

2, Protection of ultra-clean processes at high temperature, sterilisation tunnels in the pharmaceutical industry

3, HEPA filter protection for clean processes at high temperature, especially for Life Science (depyrogenation tunnels, ovens)

Type: High temperature HEPA filter

Frame: Stainless steel /Composite ceramic

Mounting frames: A stainless steel adaptor frame can be supplied to reach the thickness of 150mm or 292mm

Grille, Upstream: Stainless steel

Grille, Downstream: Stainless steel

Gasket: Silicone

Media: Glass fiber

Separator: Aluminium

Sealant: Silicon HT / Ceramic / Inorganic polymer

EN 1822 (Efficiency @ MPPS): H13(≥99,95%) –H14 (≥99,995%) at 0,3µm, even after heating cycle, leakfree ≥ 200 cycles

Rec. final pressure drop: 500 Pa -700Pa
Rec. final pressure drop: 2x Initial pressure drop
Efficiency 0.3µm : > 99.99% @ front velocity 0.9m/s
Local penetration max.: 10-4 maximum,(0.01% acc. FDA) after the 1st heating cycle on site following procedure
Temperature max: 250ºC -350
RH. max: 100%
Remarks: Please note the installation and assembly instructions!
Remarks: Please note installation and assembly instructions! Due to the different thermal expansion coefficients of the individual filter components the ceramic potting may form cracks during the tempering process. At operating temperature (350 ºC) these filters have an overall efficiency of 99,97% at 0,3 µm, leackages are possible.

(Standard specification)

Model	Outside dimensions (mm)	Rated air flow (m3/h)	Initial resistance (Pa)	Efficiency (%)	Dust capacity (g)
XN-NGX-10J1	484×484×220	1000	⩽220	⩾99.99	600
XN-NGX-10J	610×610×150	1000	⩽220	⩾99.99	350
XN-NGX-16J	630×630×220	1600	⩽220	⩾99.99	400
XN-NGX-22J	610×610×292	2200	⩽220	⩾99.99	600

21,ProSafe

The ProSafe filters are designed to comply with the strict demands on safety, traceability and control in the Food & Beverage and Life Science industries

- Recommended for food & beverage and life science industries
- Hygienic product acc. to VDI6022
- Microbial inert components acc. to ISO846
- Food contact approved acc.to EC1935:2004
- Free of harmful chemical components: halogen-free, bisphenol-free, formaldehyde-free, phthalate-free
- Tested resistance to decon and cleaning procedures
- High air flow, low pressure drop
- Individual test certificate acc.to EN1822:2009
- Optimizing waste management:
- Compactable
- Incinerable
- Lightweight
- Ideal for CREO energy optimizatio
- **EN 1822 (Efficiency @ MPPS):** E11(≥95%), H13(≥99,95%), H14(≥99,995%)

Application: EPA/HEPA final filtration for air conditioning systems of sensitive process industries like life science or food and beverage
Type: V-Bank Box Filter
Frame: ABS
Gasket: Polyurethane, endless foamed
Media: Glass fiber
Separator: Hot Melt
Sealant: Polyurethane
Rec. final pressure drop: 2x Initial pressure drop
Max. final pressure drop: 600 Pa
Maximum airflow: Nominal flow rate (if not, efficiency drops)
Temperature max: 80ºC
RH. max: 100%
Mounting frames: Front and side access filter frames. Terminal housings and safe change systems
Certificates and further information:www.SAF.com/prosafe

Standard specification

Model	Outside dimensions (mm)	Rated air flow (m3/h)	Initial resistance (Pa)	(Sodium flame) Efficiency (%)	Media (PCS)
XN-GXX-16J	305×610×295	1600	≤250/≤150 (HV)	≥99.99	4V
XN-GXX-32J	610×610×295	3200	≤250/≤150 (HV)	≥99.99	4V
XN-GXX-20J	305×610×295	2000	≤250/≤150 (HV)	≥99.99	5V
XN-GXX-40J	610×610×295	4000	≤250/≤150 (HV)	≥99.99	5V

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SAF®

XN- INTERNATIONAL

MEDIA REPLACEMENT

Potassium permanganate & impregnates on activated alumina

SAF provides a comprehensive range of filtration media for refilling of relevant products within the XN-Carb and ProCarb product families, or for existing installations.
Activated carbon is used for broad spectrum applications including volatile organic compound, nitrogen dioxide or ozone removal. Impregnated carbon typically targets acidic or alkaline molecular contaminant such as hydrogen sulfide, sulfur dioxide, organic acids, hydrogen chloride mercaptance or ammonia.

21,Light duty

Applications using ion exchange technology to remove acids, bases, organics, oxidants, dopants or refractory compounds affecting manufacturing processes or equipment.

The City product line is perfect for indoor air quality applications whereby particulate matter and molecular contamination must be controlled with the lowest possible energy consumption in the smallest form factor. Examples include office buildings, airports, educational establishments, polluted industrial area, cities with heavy traffic pollution, seasonal haze removal, museums. Target gases include nitrogen dioxide, ozone and volatile organic compounds (VOC).

- High media cleanliness
- Individually VOC outgassing tested
- Extremely small form factor
- Extremely low pressure drop
- High media cleanliness
- Individually VOC outgassing tested
- Extremely small form factor
- Wide range of dimensions
- Multiple media types can be combined into the same filter

Application:

1For clean room ceiling, Fan Filter Units, mini-environment or process equipment

2Clean room recirculation air, clean room make up air

Type: Pleated Panel

Frame: Anodized aluminium /wooden/Plastic/ paper box

Gasket: Polyurethane

Media: Activated Carbon

Temperature max: 40ºC

RH. max: 80%

Particle cleanliness: ISO Class 6

Outgassing: Individually outgassing tested for VOC emissions.

Knife: KU facing up, KD facing down

Gasket: 01=Downstream gasket, 10=Upstream, 11=2 gaskets

Faceguard: 02: Downstream faceguard; 20: Upstream faceguard, 22: 2 faceguards

Available filter depth without knife edge: 66, 90, 110, 150, 172 and 200 mm

Available filter depth with knife edge: 66 (+38), 90 (+38), 110 (+38), 150 (+15) mm

Outgassing: Individually outgassing tested for VOC emissions

22,Industrial Air Cleaner

Air cleaners for industrial and process applications are equipped with the most efficient Absolute™ HEPA filter and EC (Electronically Commutated) fans. Air purifier for dusty environments and indoor premises such as warehouses, pharmaceutical facilities, food factories, heavy industry, paper mills, welding workshops, construction sites, laundries, timber facilities, bakeries, packaging production, printing facilities, stables, processing industry and supermarkets. Also suitable in connection with construction, demolition and coating operations,and control rooms of petrochemical facilities, metal refining .Eliminates tobacco smoke, weld smoke, construction dust, asbestos and particles of all sizes down to ultrafine. The product range for indoor air excellence has been developed to suit all applications and are available in a variety of sizes.

XN-1 concealed is a built-in and ducted air purifier for small or medium offices - up to 100 m². XN-2 a mobile/stationary air purifier for offices, homes, schools, public spaces etc.

XN-3 odours and complex chemical substances

XN-4 is engineered to help large logistic and manufacturing companies keep employees healthy, improve product quality and reduce dust by automatically controlling the air quality. It also helps personas like facility owner, renter or the operational quality process with clean air solutions.

- Corrosion control
- Health Care
- Life science
- IAQ
- Energy saver
- Easy to service
- Touch Screen control
- Pressure drop alarm
- Easy to implement BMS
- Silent performance
- On/Off timer
- Constant Air flow features

Power supply: 200...240V / 3-phase 380-480V or 1-phase 230V

Type: Air cleaner

Filter: Up to 4 stage filter option

Capacity:0 - 6000 m³/h

Filter: F7, E11, H13

Energy consumption: 0 - 302w

Please note: Molecular filtration option is available

Design: Stainless steel body

Average Air purification area: 45-300m²

Fan: EC fan with adjustable airflow and ModBus connection

Connection: 4 standard round (diameter 315mm) or 2 standard round (diameter 315mm) and 2 round (diameter 250mm) with sound reduction

Installation: Mobile or stationary, floor, wall or ceiling mounting (with wire or suspension arms)

Art. No.	Type	Dimensions WxHxD (mm)	Sound level (dB)	Power Consumption (W)	Weight (kg)	Air Volume (m^3/h)
XN-1	230V, 1 phase	798x1968x820	0-67	0-887	130	6000
XN-2	380-400V, 3 phase	798x1968x820	0-67	0-887	130	6000
XN-3	phase Horizontal	1262x1359x829	0-67	0-887	130	6000
XN-4	3 phase Horizontal	1262x1359x829	0-67	0-887	130	6000
Uses 4 Pre + 2 main filters						

Analytical services

SAF analytical services cover a wide range of applications and are used to check air quality or filter performances in-situ or in our technical centers. Corrosion coupons and real time corrosivity monitoring (ISA Check II) are perfect for the assessment of corrosion levels within facilities using sensitive electronic / electrical equipment or in museums / archives for protection of artefacts, following the ISA 71.04-2013 standard. Gigacheck is SAF method for air sampling and air quality analyses. Gigamonitor is a chemical analytical method developed to measure the residual life of molecular filters.
SAF offers molecular filter performance tests according to the ISO 10121-1 or 10121-2 methodologies.

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SAF®

XN- INTERNATIONAL

DUCTED FILTER HOUSINGS

The ducted filter housings are mainly used in the supply air and can be used in a variety of applications. The XN-Cube can also be used as an exhaust air housing if contamination free filter change with plastic bag is not required.

The XN-Cube range consists of ducted filterhousings for:

- molecular filters (-CC)
- HEPA filters 595x595x292 mm (-AC) and 610x610x292 mm (-AD)
- particulate filters with header frame (-HF)

The filterhousing is available in two lengths, short (-S) and long (-L).

The XN-Cube AS is a HEPA filter housing with integrated scanning system to perform integrity tests

- Heat and condensation insulated
- Corrosivity class C4
- Leakage class C
- Easy maintenance
- Short delivery time

Application: SAF-SHF is a flexible and compact range of filter housings for bag filters and other filter types with a 25 mm frame. Used in comfort and industrial applications
Type: Housing
Filter housing material: Aluzinc
Option: Stainless steel SS EN 1.4301
Filter: Bag filters such as Hi-Flo XL and City-Flo XL. Compact filters such as Opakfil. See the relevant page in the catalogue for the technical data about filters
Air flow: The recommended air flow in a full module filter (592 x 592 mm) is 3,400 m3/h. See the relevant page in the catalogue for further information about design
Note: Door hinged on the left or right, can be changed on site
Included as standard: Adjustable feet, mounted pressure points, in- and outlet gasket for guidance connection
Accessories: Lockable handles

24,Terminal filter housings

The terminal filter housings contains the final supply air HEPA filters for turbulent ventilated cleanrooms.
Pharmaseal is a fully welded GEL seal terminal housing for cleanrooms in the pharma industry.
Cleanseal is a fully welded terminal housing with a variety of options for gaskets, grids and filter heights.
XN-Seal is is a terminal housing with different grid options. Easy to handle and maintain. Offers you easy access and maximum safety – long lasting and robust design, fully welded, no risk of leakage.
Gives you economic and environmental benefits via very low pressure drops when equipped with SAF's premium air filters.- Simplified installation:
The included mounting brackets with factory made holes allow the unit to be suspended or clamped to a solid ceiling.
Retractable spigot is a big advantage when fitting XN-seal from room side into ceiling openings.
- Simplified HEPA filter maintenance:
Filter installation / replacement are performed very quickly without the need for tools by utilizing removable rotating plots that centre the filter and clamp it perfectly tight by simple turn.
- Polyvalent air distribution:
XN-seal diffusion plates are all hinged for easy access and are held securely in place by quick lock magnets. They can easily be fully detached from the housing if required.




- Combines all the essential functions required for pharmaceutical and biotechnology facilities
- Integrated Control panel : all controls and connections accessible from room side
- Easy maintenance : quick filter change
- Long term reliability : fully welded seams
- Airflow adjusted by "Radial" damper
- Traceability : unique serial number
- Individual tightness test at factory
- Efficiency: H14

Application: Turbulent airflow clean rooms in Bio-Pharma
Type: Housing
Damper: Individual adjustable "Radial" damper, for airflow adjustment accessible from room side
- Included functions accessible from room side: Static pressure port, Damper control with Damper position indicator, Aerosol dispersion ring with Aerosol port injection
For filters: High airflow MEGALAM MG HFU HD (gel seal) or HFP HD (PU gasket) to be ordered separately
Filter Mounting: Quick filter change using pivoting clamps fitted with compression limiter
Filter seal: Knife edge for immediate air tightness with gel or PU gasket
Control: Individually leak tested at 750 Pa by pressure decay according to NF M 62200
Fastening : By removable "universal blocks", suspended by hangers or integrated into clean room ceiling panels
Hinged grids: Perforated, swirl, 4 ways adjustable blades to order separately
Gasket:DIN,PU or Gel gaskets

CleanSeal top entry PU gasket

- Tool-less filter clamping 100% secured and immediate
- Quick grid locking for immediate access to filter
- Long lasting reliability and tightness: robust fully welded construction
- Easy installation: unique movable supporting blocks included
- Large choice of standardized sizes
- Complete interchangeable diffusion plates range

Construction: Steel, fully welded seams
Finishing: White epoxy coated RAL 9010
Connection: By ribbed circular inlet continuous welded on top
For Filters: MEGALAM MD/MX/MD PU gasket frame height (66/90/110mm) (to be ordered separately)
Filter Mounting: Tool-less multi-height quick release lever clamp for immediate and secured clamping including gasket compression limiter and filter retainer
Control equipment: room side access : 1 port for dp or 100% measurement
Housing installation: by removable «universal blocks», for suspension by hangers, or integration into clean room ceiling panels or fitting into T bar grids system
Diffusion plates (to be ordered separately): Fush hinged grids with “credit card” quick locking: Perforated, swirl, 4 ways, adjustable blades

25,Fan Filter Units

The FFU – fan filter units with integrated fan and HEPA filter bring localized clean air and are used in Life Science and healthcare.
- The XN-FFU HP is for cleanrooms ISO 8 to ISO 1 with turbulent or unidirectional airflow.
- The XN-FFU CS is for cleanrooms ISO 8 to ISO 3 with very low space above the false celing and turbulent airflow.

- The XN-FFU BP is for cleanrooms ISO 8 to ISO 3 with turbulent airflow.



- Individual control
- Low power consumption
- Very rigid construction
- EC Fan with high reserve capacity for pre- and AMC filtration
- Lowest sound power level
- EC Fan with high reserve capacity for pre- and AMC filtration
- Simple direct speed control
- Low sound power level
- low design height
- Individual control

Application: Flexible and economical modular solution to equip turbulent clean rooms from ISO 8 to ISO 1 with very low space above the false ceiling
Power supply: 200...240V
Type: Fan filter unit
Temperature max: 0 - 40ºC
Mounting frames: Installation in SAF XN-GRID-FFU ceiling or equivalent systems
Construction: Aluminum housing, powder coated steel on request
Fan: Efficient EC motor with backwards-curved blades
Airflow control: Simple speed control by the means of an integrated 0-10V rotary potentiometer
Filter: Megalam H14, U15 or U16, MD, MX or MG with dry PU gasket to be ordered separately

Application: Flexible and economical modular solution to equip clean rooms in turbulent or 100% unidirectional airflow, from ISO 8 to ISO 1
Temperature max: 0 - 40ºC
Mounting frames: Installation in SAF XN-GRID-FFU ceiling or equivalent systems
Construction: Aluminum housing, powder coated steel on request
Fan: Efficient EC motor with backwards-curved blades
Airflow control: BUS controlled system or handheld control

Filter: Megalam H14, U15 or U16, MD, MX or MG with dry PU gasket to be ordered separately

（Standard specification）

Model / Parameters	XN-FFU-122S / XN-FFU-122Z	XN-FFU-117S / XN-FFU-117Z	XN-FFU-61S / XN-FFU-61Z	XN-FFU-57S / XN-FFU-57Z
Air flow rate(m^3/h)	2000	1800	1000	900
Noise Db(A)	52~56			
Hepa filter efficiency	≥99.99%～99.9995%（ @≥0.3μm）			
Power	AC220V±10%,1Φ,50HZ±2HZ			
The input power (W)	130	130	80	80
(mm)L*W*H Envelop dimensions	1220*610*320	1170*570*320	610*610*320	570*570*320
(mm) Hepa filter specifications	1220*610*69	1170*570*69	610*610*69	570*570*69
(mm) Coarse efficiency filters specifications	495*495*21	495*495*21	395*395*21	395*395*21

According to user requirements to customize different specifications and types of head fan filter unit

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SAF®

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GAS TURBINE FILTRATION

Pulse Filters

Our cartridge filters, both self-cleaning pulse type and static, are available in vertical or horizontal designs, to best suit your system

of choice. With our broad range of media, including EPA filters, we can offer an air inlet pulse filter for every environment and every gas

- Water repellent media protected by metal liners
- Each filter set is shipped together in one carton
- 2 in 1 package - saves space and money
- Galvanized metal finish
- Self-cleaning air filter cartridges
- Improved air distribution
- Suitable also in high humidity conditions
- Suitable as prefilter for filter class E10, E12
- Increased air to cloth ratio
- High filtration efficiency
- Excellent energy performance
- Long life
- Continuous one-piece gasket
- Factory bonded steel top and bottom headers
- Pleated media
- Helical cord retainer
- Non discharging F9
- Helical design for efficient pulse cleaning

Application: For desert/dry/ heavy dust load areas
Type: Pleated Cylinder

Media: Polytech HE / Synthetic

Pleat: HemiPleat

End caps: Available in Galvanized steel (Standard), Powder coated, Stainless steel AISI304, Stainless steel AISI 31

Liners: External helical cords and internal screen secure the filter element from movement without obstruction to the pulse

Test information: Tested according to ARAMCO spec. 32-SAMSS-008.

Additional information: Available in Co/Cy, Tenkay, as dimple pleat and in other dimensions on request

Application: Vertical pulse filter for desert/dry/ heavy dust load areas

Rec. final pressure drop: 600

Size: Standard 34", 22", 27" or 39", on request, Variety of configuration and fixing mechanism availables

Additional information: 1,Also available in EPA and Fire Retardant medias. Goldcone option available for extended media area and improved pulsing aerodynamics.

2,Available as dimple pleated and in fire retardant version on request.

3,Available in Co/Cy, Tenkay, as dimple pleat and in other dimensions on request.

4For humid/dry heavy dust load areas. Our recommended choice for one-stage self cleaning air intake systems

Temperature max: 70º C

End caps: Available Galvanized steel (Standard), Powder coated, Stainless steel AISI304, Stainless steel AISI 31

Dust Collector Solutions

Filter Cartridges

SAF’s HemiPleat® design promises numerous and valuable benefits to end users of dust collection equipment. State-of-the-art pleating technology is the key to the HemiPleat’s superior performance.

DuraPleat ® filters are available as a retrofit upgrade your dust collector cartridges in the most popular shapes and sizes. XN-Farr's innovative pleating technology offers many valuable benefits in the operation of your dust collector.

- SAF Pleat Separator Technology
- Low Pressure drop
- Extended Filter Life
- High Filtration Efficiency
- 100% spun bond polyester
- Pour in place one piece gasket
- Pour in place one piece gasket
- Broad design portfolio

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes
Type: Pleated Cylinder
Gasket: Rubber
Separator: Hot Melt Separator Technology /HemiPleat
Sealant: Polyurethane
Temperature max: 80 °C
Mounting frames: Perforated inner Core GV (optional Stainless steel)
Filter Class: M
Options: Double open end, stainless steel, hole size tensioning, outer cage.

- Original spare for Farr Gold Series dust collectors
- Vertically integrated cartridge for better dust release and ease of removal and installation
- Excellent energy saving performance
- Extended Filter Life
- High Filtration Efficiency
- Pour in place one piece double gasket

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes
Type: Pleated Cylinder
Gasket: Polyurethane, endless foamed
Separator: Separator Technology
Sealant: Polyurethane
Temperature max: 70º Operating
Mounting frames: Internal GV support cage
Filter Class: M

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LAB PURIFICATION EQUIP

Clean Benches

Purifier Horizontal Clean Benches direct HEPA-filtered air horizontally over the work area to provide ISO Class 5 (formerly Class 100) conditions and protect your work from particulate contamination. Applications for clean benches include plant tissue culture, media plate preparation, electronics inspection, medical device assembly and pharmacy drug preparation.Purifier Horizontal Clean Benches are available in 3', 4', 5', 6' and 8' widths.
also offers Purifier Vertical Clean Benches that direct HEPA-filtered air down over the work area and Purifier Filtered PCR Enclosures, which are specialized vertical clean benches designed for polymerase chain reactions.

Horizontal and vertical flow clean bench
CE and ISO9001 approved
Stainless steel bench board

1Single person single side(two sides) and two people single side(two sides)
2.Adopt low consumption centrifugal fan,equipped with reasonable duct design,make airflow more uniform and stable
3.The bench board is made of mirror stainless steel
4.Equipped with primary efficiency and high efficiency filter to meet the customer's purification degree requirements
5.Adopt microcomputer controller,adjustable fan velocity
6.Adopt weight-balance front door design,can up and down positioning
7.Food stand and cabinet are separated design, convenient to transport.

Standard specification

Specifications	XN-JJZ-915	XN-JJZ-122	XN-JJS-915	XN-JJS-122
（L×W×H）mm Shape dimension	960×690×1750	1420×690×1750	960×650×1750	1420×650×1750
（L×W×H）mm Working area size	945×640×600	1300×640×600	945×640×640	1300×640×640
（L×W×H）mm Hepa filter size	915×610×69	1300×570×69	915×610×69	1300×610×69
air（m^3/h）	1500	2000	1500	2000
风速 wind（m/s）	0.3~0.8			
Purification level	100 levels (federal standards 209E			
噪音 Noise				
Power supply and power	220V、50HZ、0.18KW	220V、50HZ、0.36KW	220V、50HZ、0.18KW	220V、50HZ、0.36KW
Suitable Numbers	1	2	1	2

According to the requirements of users can customize different specifications and types

Fume Hoods

Labconco's high performance general chemistry laboratory hoods protect the user from harmful or toxic fumes or vapors generated from a broad range of applications. Containment-enhancing features allow them to operate at lower face velocities than traditional hoods while being energy-efficient and protecting the operator.

- Since less room air is exhausted, energy is conserved.
- The one-piece liner of specially-formulated
- Fiberglass-reinforced polyester offers corrosion and fire resistance
- easy clean up.
- Without seams, the interior has fewer points of deterioration for longer life..
- Explosion-proof hoods with built-in blower

Clean booths

Dust free Modular cleanroom laminar flow Capsule clean room

With FFU (Fan Filter Unit, clean booth provides a high level of cleanliness. It i s a good option to create a cleaner space within an existing normal room or a room with low-level of cleanliness.

Easy installation, low cost, modularized design and easy upgrading

- Hard / soft wall Clean Booth
- H14 Hepa filter
- Anti-static soft PVC wall 106~109/ Anti-static acrylic 106~109
- Available in LED and T5
- Available in constant temperature air conditioner/constant temperature and humidity conditioner

Application: LCM, CMOS XN-era Module, Touch Play, Optical Module, FILM, Biological Pharmacy,Packing,Food

US $1,000-15,000

Technical Paremeters:

Class Level	Model	Inner dimension W * D * H (mm)	Number of FFU	Air volume(m3/h)
Class100	SACB 6 * 8	2000 * 3000 * 2200	6	6600
	SACB 8 * 12	2440 * 3660 * 2200	12	13200
	SACB 8 * 16	2450 * 4880 * 2200	16	17600
	SACB 8 * 20	2440 * 6100 * 2200	20	22000
Class 1000	SACB 6 * 8	2000 * 3000 * 2200	2	2200
	SACB 8 * 16	2440 * 4880 * 2200	4	4400
	SACB 12 * 16	3660 * 4880 * 2200	6	6600
	SACB 20 * 24	6100 * 7300 * 2200	12	13200
Class 10000	SACB 6 * 8	2000 * 3000 * 2200	1	1100
	SACB 8 * 16	2440 * 4880 * 2200	2	2200
	SACB 12 * 16	3660 * 4880 * 2200	4	4400
	SACB 20 * 24	6100 * 7300 * 2200	8	8800

Please contact with us for your best clean room solutions.

Air shower

US $1,000 - 3,000

- Photoelectric sensor, automatic blowing
- Electronically interlocked with double stainless doors

- Two-side blowing, left and right, stainless steel nozzles
- using pre filter ,high efficiency filter system
- With Auto, Stop, Manual, Emergency Stop function keys
- An Emergency stop push button
- direct open or right-angle to open the door
- Electronic interlock: When A door is open, B door will be locked. A & B doors can't be open during blowing
- The air shower time is adjustable from 1-99 seconds
- compact structure Suitable for one passage made up of many showers

Technical parameters:

Model	XN-1R-129	XN-2R-159	XN-4R-159	XN-1H-200	XN-2H-230
Dimension (L*W*H)mm	1290*1000*2050	1590*1000*2050	1590*2000*2050	2000*2000*2050	2300*2000*2050
Internal dimension (L*W*H)mm	790*910*1930	790*910*1930	790*910*1930	1200*1910*1930	1500*1910*1930
Nozzle number	6	12	24	24	24
Wind(m/s)	20~28				
Power(W)	750W	1500W	4500W	4500W	4500W
Approx.weight	200kgs	250kgs	400kgs	450kgs	600kgs
Voltage	3N 380V 50HZ				
Person(s) per cycle	1-2 persons	1-2persons	2-4persons	6-10persons	6-10persons
Filter Efficiency	≥99.99 @0.3μm				
Wind speed	20~28m/s				

Customized size is available.

Integrity,Professional,Efficiency,Quality

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0086 13266796681