



Air

FILTRATION
TECHNOLOGIES

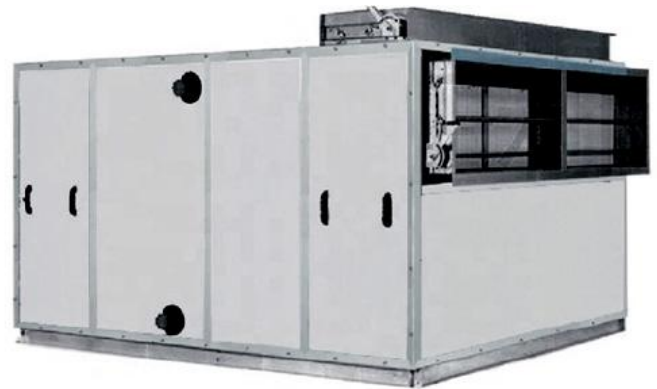


PureQuest

AIR FILTRATION TECHNOLOGIES

CATALOGUE

PureQuest Air Handlers are designed and manufactured in South Africa by a Team of dedicated professionals through adopting the latest HVAC & R technologies with the aim of expediting manufacturing, easing project constructability, and streamlining maintenance. Our strategy is centered on exploiting every opportunity for cost reduction and as such we pass the realized cost savings to our valued Customers. This is achieved through capitalizing on a cost-efficient supply chain, shortening delivery lead times and cultivating quality from cradle to market to avoid defects. PureQuest air handling units are built for superior air quality distribution from the most rudimentary design right up to the more sophisticated offerings required for high specification environments such as clean rooms, laboratories, pharmaceuticals, food & beverage Industries. Our standard models range from 500L/s to 30,000L/s are, larger sizes can be customized to fit requirements. Some units are modular in construction and the construction methodology is current to the global best practices.



AIR FILTRATION

Our Filters range from panel type coarse filters, bag, cartridge, carbon, high efficiency particulate and ultra-low particulate air filters. The filter frames are offered in galvanized iron, aluminium, stainless steel, and plastic frames depending on the application. Mixing boxes and filter sections can be custom made to conform to project specific requirements. Panel, bag, and rigid filters are constructed for front withdrawal as a standard and side withdrawal as an option.



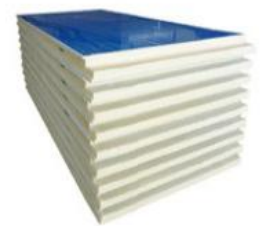
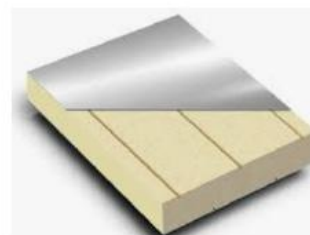
FRAME CONSTRUCTION

PureQuest air handlers are constructed from a sound design of the framework and panels which ensure structural integrity, robust strength, and stability. Frame material selection accounts for risks posed by the operating environment. The standard offerings are stainless steel and galvanized iron. Corrosion resistant extruded aluminium pentapost section rigidly joined by die - cast monobloc corners is offered as an option.



FAN SECTION

Fans are available in forward curved, backward curved or aerofoil bladed as required and housed or unboxed plenum (plug fan) variants, with both belt and direct driven options. As a standard, all fans are mounted on anti-vibration mounts with a flexible connection to the unit casing. Holding down bolts are provided for shipping purposes.



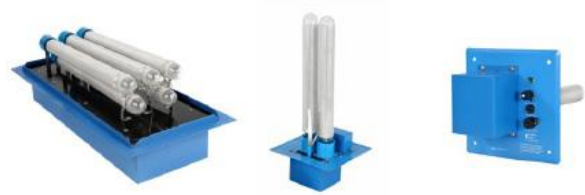
HOUSING PANELS

Double skin insulated panels come as a standard, this enhances insulation efficiencies, increases longevity, curtails air leakage, reduces air fugitive infiltration, and provides superior acoustic performance and noise breakout containment, resulting in less noisy units. Alternative panel options marine grade aluminium, galvanized iron, or stainless steel. Special finishes such as powder coating or epoxy painting are available upon request. There are numerous insulation options depending on the acoustic and heat transfer requirements. Insulation thickness is nominal 50mm as standard, with nominal 25mm, 40mm and 60mm options. All panels are fixed with screws, or external clamps and quick release fasteners. Access doors are double skinned with positive seal latches and can be opened from inside the unit. Door hinges and a selection of locking devices is available and optional accessories such as inspection portholes and bulkhead lights are also available as options.



AIR TREATMENT SECTION

Heat and Cooling Coil selections are made up to 12 row coils of depth and fin spacing that provides optimization depending on the application. Standard construction is aluminium fin and copper tubes with galvanized end plates and post-manufacture acrylic anti-corrosion treatment for the whole coil block. Customized surface treatments, fin and tubing materials are available on request. All cooling coils are sized to a suitable aspect ratio, face area and velocity to minimize moisture carryover and condensate loading. Drain trays are manufactured from stainless steel as standard, to mitigate corrosion, free draining and easy to clean without removing from the unit. Trays are supplied with a flexible outlet connection and drain pans are externally insulated with polyethylene foam with foil faced vapor barrier to prevent condensation forming on the exterior.



OPTIONS

Bi-Polar Ionisation is a cutting-edge sterilization and odour elimination technology. The principle of ionization purification system works by passing the supply airstream along an ionization tube, where airborne particles are charged to form positive and negative ions. When the supply air is circulating through an occupied room, those ions are attracted to air pollutants. The process damages the cell structure of virus, mold spores as well as bacteria which are deactivated shortly after contact with the ions, thereby eliminating the microorganisms to prevent the spread of diseases and odors. As an option, the ionization tubes can be installed at the supply air outlets of AHUs, FCUs and Ducts. Ionization tubes are easy to install, have high sterilization efficiency and have great acoustic performance.

MODEL	AIR FLOW M3/S	AIR FLOW CFM	AIR FLOW M3/H	COOLING CAPACITY (TONS)
QOOL-05	0.5	1,059	1800	2.4
QOOL-10	1	2,119	3600	4.7
QOOL-20	2	4,238	3601	9.4
QOOL-30	3	6,357	3602	14.1
QOOL-40	4	8,476	3603	18.8
QOOL-50	5	10,594	3604	23.5
QOOL-60	6	12,713	3605	28.3
QOOL-70	7	14,832	3606	33
QOOL-80	8	16,951	3607	37.7
QOOL-90	9	19,070	3608	42.4
QOOL-100	10	21,189	3609	47.1
QOOL-110	11	23,308	3610	51.8
QOOL-120	12	25,427	3611	56.5
QOOL-130	13	27,545	3612	61.2
QOOL-140	14	29,664	3613	65.9
QOOL-150	15	31,783	3614	70.6
QOOL-160	16	33,902	3615	75.3
QOOL-170	17	36,021	3616	80
QOOL-180	18	38,140	3617	84.8
QOOL-190	19	40,259	3618	89.5
QOOL-200	20	42,378	3619	94.2
QOOL-210	21	44,496	3620	98.9
QOOL-220	22	46,615	3621	103.6
QOOL-230	23	48,734	3622	108.3
QOOL-240	24	50,853	3623	113
QOOL-250	25	52,972	3624	117.7
QOOL-260	26	55,091	3625	122.4
QOOL-270	27	57,210	3626	127.1
QOOL-280	28	59,329	3627	131.8
QOOL-290	29	61,448	3628	136.6
QOOL-300	30	63,566	3629	141.3



The purpose of industrial ventilation systems is to achieve suitable air quality by removing odors. Industrial ventilation solutions can provide comfort conditions by maintaining required temperature and humidity. Occupational safety utilizes industrial ventilation to remove flammable vapors. Occupational health requirements can be achieved from the removing toxic particles, gases and vapors, airborne contaminants. Ventilation systems can be categorized as local exhaust or dilution (general) types. A basic dilution (general) ventilation system consists of an exhaust fan extracting air from the contaminated workspace and exhausting it to the outdoors. A general ventilation system may include a replacement air system, replacement-air distribution ducting, and air-cleaning equipment on the exhaust stream. General exhaust ventilation (GEV) is applicable where the contaminants of interest are not highly toxic and if the rate of generation is predictable. This is most practical in situations where multiple contaminant sources are scattered throughout the workspace or where the sources are mobile, such as forklift charging warehouse or battery storage facility. Local exhaust ventilation (LEV) is applicable where contaminants of interest are removed at or near the source, thus minimizing the opportunity for the contaminant to enter the workspace atmosphere. The basic LEV system includes an exhaust hood, ducting, a fan, and an exhaust outlet. LEV systems are used in a wide variety of settings, from laboratory hoods, commercial kitchens, foundries, and welding booths.

Dust And Fume Collectors

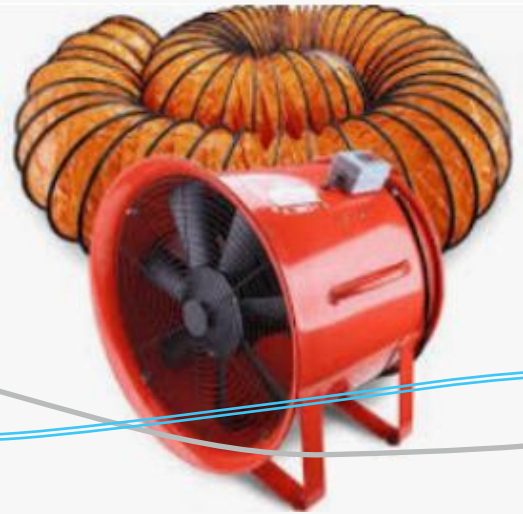
Dust and Fume Collection Systems are required to provide a safe working environment by removing hazardous dusts and air contaminants and safely evacuating them to designated locations. Correct potential hazard identification is a critical starting point in providing the proper ventilation solutions. Evaluation of identified hazards is vital to enable the appropriate environmental control measures to be applied right from the design proposal, with the highest impact in the lifecycle of the cost and performance of the Dust and Fume Collection Systems. A systems approach is required to ensure replacement air systems are provided where required and exhaust air is prevented from reentering into the controlled environment.

PureQuest Dust Collection Systems are designed, installed, and maintained with these important factors under consideration to provide economic solutions in terms of both capital and lifecycle costs. PureQuest can offers Reverse-Pulse Dust Collectors, Cyclones and various types of Fume Extractors made to order. PureQuest is a one stop shop for the design, manufacture, construction and maintenance in mining, mineral processing, pharmaceuticals, manufacturing, FMCG, food & beverage industries, of these products and the systems including ducting, extractions canopies, filters. PureQuest offers in-house turnkey solutions from concept to commissioning and offers unparalleled aftersales support to provide convenience for all the valued customers.



PORTABLE INDUSTRIAL EXTRACTOR FANS

Portable industrial extractor fans are used to meet the lower exposure limits for hazardous chemicals and to provide the required pressurization in confined spaces on construction sites, mechanical static equipment (tanks, pressure vessels etc.) and deep excavations. This solution is applicable in meeting the LEL requirements for Hydrogen Sulphide, Hydrocarbons, Carbon Dioxide, Hydrogen concentration levels in the Oil and Gas, Energy and Construction Industries. PureQuest provides ventilation engineering expertise, offers turnkey project solutions and a wide range of portable industrial extractor fans based on customer requirements.



Roof Turbo Air Extractors

PureQuest offers both electric and wind driven roof turbo extractors to meet customer requirements, opportunities to use natural ventilation can be exploited to provide cost effective general ventilation using natural free cooling solutions.



Tunnel and Metropolitan Jet Fan Solutions

Jet Fans provide an efficient engineering solution for extracting motor vehicle emissions and associated heat from road tunnels and basement parking spaces. Jet Fans are effective in the extraction of heat and emissions from underground confined spaces, ceiling and industrial buildings providing high volume flowrates. PureQuest offers a holistic approach in providing turnkey project solutions in the infrastructure sector from concept to market.





Purequest split units technical specification sheet

Model			12 000 BTUH	18 000BTUH	
Type			Heat Pump	Heat Pump	
Control Type			Remote	Remote	
Power Supply		Ph/V/Hz	1Ph/220-240V/50Hz	1Ph/220-240V/50Hz	
Voltage Range		V	198-264	198-264	
Cooling	Energy Class in Cooling		B	B	
	Capacity	W	3520	5280	
	Rated Power Input	W	1132	1665	
	Rated Current	A	5	7.5	
	EER	W/W	3.11	3.17	
	Max Power Input	W	1480	2165	
	Max Current	A	6.5	9.7	
Heating	Energy Class in Heating		B	A+	
	Capacity	W	3670	5430	
	Rated Power Input	W	1180	1535	
	Rated Current	A	5.2	6.9	
	COP	W/W	3.11	3.54	
	Max Power Input	W	1550	1920	
	Max Current	A	6.8	8.9	
Moisture Removal		L/hr	1.3	1.8	
Indoor Noise		dB(A)	40	44	
Outdoor Noise		dB(A)	52	56	
Compressor	Refrigerant		0.6	1.17	
	Model		44A263	PA190M2	
	Type		Rotary	Rotary	
	Brand		RECHI	GMCC	
Expansion Device			Capillary Tube	Capillary Tube	
Indoor Airflow (Hi/Mi/Lo)		m ³ /hr	700/700	850/850	
Indoor Fan Model	Input		13 (WELLING), 14 (Broad-Ocean), 13 (Kaibang), 13 (LT), 13 (Tongde)	25(WELLING)	
	Capacitor		1.5	1.5	
	Speed (Hi/Mi/Lo) Cooling		rpm	1270/1170/1050/900/850	1300/1200/1100/1050/1000
	Speed (Hi/Mi/Lo) Heating		rpm	1250/1150/1050/950/900	1300/1200/1100/1050/1000
	Dry		rpm	900	1050
	Sleep		rpm	900	1050
Outdoor Fan Model	Input		31 (WELLING), 25 (Broad-Ocean), 28 (Tongde), 25 (Kaibang),	45 (WELLING), 47 (Broad-Ocean), 47 (Tongde),	
	Capacitor		2.5	3	
	Speed		rpm	860	820
Indoor Unit	Dimensions (WxDxH)		777x250x205	910x292x205	
	Packaging (WxDxH)		848x318x277	977x370x275	
	Net / Gross Weight		Kg	8/11	10/13
Outdoor Unit	Dimensions (WxDxH)		700x256x550	780x605x290	
	Packaging (WxDxH)		803x261x300	883x653x412	
	Net / Gross Weight		Kg	25/30	39/44
Refrigerant Piping	Liquid Side/Gas Side		mm(inch)	∅6mm(1/4") / ∅9mm(3/8)	∅6mm(1/4") / ∅12mm(1/2)
	Max Refrigerant Pipe Length		m	15	15
	Max Difference in Elevation		m	5	5
Pressure	High(DP)		MPa	4.5	4.5
	Low(SP)		MPa	1.9	1.9
Refrigerant			R410A	R410A	
Ambient Temperature		°C	-7 – 43	-7 – 43	
Suitable Area		m ²	15 – 23	15 – 23	

Mini Pleat V Bank HEPA Filters

Aero HEPA HV are mini pleated box style filters with V orientation. It is made from micro - fine fiberglass paper media and comes with metal frames. Filters are available in H12, H13 and H14 efficiencies. Standard models comes in 292mm frame depth.

PUREQUEST HEPA

Mini Pleated box style filters
Available in H12, H13 and H14 grades
Metal frame with handles on sides



MEDIA FEATURES AND TECHNICAL DETAILS

Filter Media

PureQuest HEPA HV filters are manufactured from continuous length superior quality micro glass fiber paper media available in various efficiencies. The filter media is moisture resistant and fire retardant. The uniform and closed pleat filter pack grants a high crossing surface to hold the very fine dusts.

Filter Frames

The standard frame construction includes fire retardant Wood Particle Board, Galvanized steel (16,18 or 24gauge) and anodized aluminium.

Sealant & Gaskets

The pleated media pack is encapsulated into the filter frame utilizing a two part high density fire retardant urethane elastomer. A flat profile neoprene gasket or a one-piece seamless urethane gasket is used to ensure a leak free seal to the filter housing. High temperature versions are manufactured with ceramic sealant and temperature resistant gasket.

Media Separators

The Mini-Pleat absolute filters PureQuest HEPA HV consist of closely pleated media, positively spaced using thermosetting beads. This type of pleat separation allows optimum media utilization and offers very low pressure drops.

Filter Testing

The finished filters undergo a thorough quality checking. They are scan tested individually to ensure a leak proof performance and each filter posses the label showing the scan test result on it. We have the testing facilities as per EN1822 and American Standard IEST-RP-CC001.3. Testing of filters can be done according to the customer's request.

Selection Chart ▼

Filter Sizes (Inches)	Filter Size (mm)	Frame	Rated Airflow Capacity CFM @ 1" WG	
			99.99% / H13	99.999% / H14
12 x 12 x 12	Size: 305 x 305 x 292	Galvanized Steel / MDF / Aluminium	500	390
12 x 24 x 12	Size: 305 x 610 x 292	Galvanized Steel / MDF / Aluminium	1100	810
24 x 24 x 12	Size: 610 x 610 x 292	Galvanized Steel / MDF / Aluminium	2400	1840
24 x 30 x 12	Size: 610 x 762 x 292	Galvanized Steel / MDF / Aluminium	3000	2300

● Final Pressure Drop - 625 Pa

● Maximum Operating Temperature / Humidity - 90 ° C / 90%

● Maximum Pressure Drop - 1000 Pa



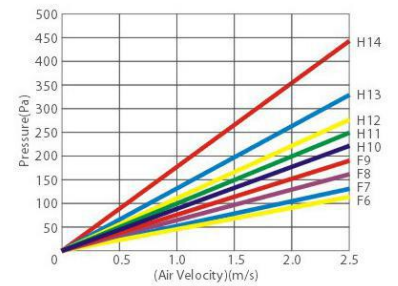
- Large airflow
- Low resistance
- Extendible filtration area
- Leakage tested, quality assured
- With assembly flange, adaptable with pocket filter



Application

Commercial and industrial ventilation systems, intermediate or endfilter of air conditioning systems.

- 1 Intermediate or end filter of air conditioning systems of dust-free room fresh air conditioning system.
- 2 Large air flow requirement or limited space of installing ventilation system.
- 3 Widely applied in electronics, optics, semiconductors, coating, chemical, cosmetics, pharmacy, hospitals, and automobile industries.



Technical Parameters

Filtration grade:

F6, F7, F8, F9, H10, H11, H12, H13, H14 (EN779)

Humidity:

≥ 100%RH

Porosity:

≥ 0.5 μm, ≥ 0.3 μm

Resistance to temperature:

≥ 80°C

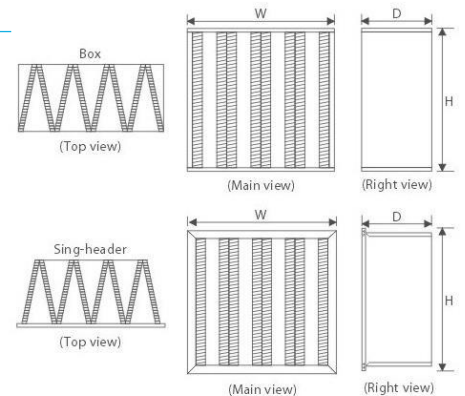
Filter Efficiency:

65%, 75%, 85%, 95%, 99%, 99.9%, 99.99%, 99.999%, 99.999% (ASHRAES2.1-1992)

Instantaneous

temperature resistance

≥ 100°C



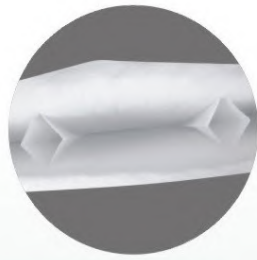
Material & Features

- Separators: Hot fusion glue.
- Sealant: foamed EVA.
- Sealant glue : AB two component glue.
- Filter material: ultra-thin glass fiber filter paper, artificial fiber filter paper.
- Outer frame: plastic frame, aluminum alloy or galvanized or stainless steel frame.
- Features: Low airflow resistance and high efficiency, Large air flow, easy installation, exchangeable with medium efficiency pocket filters.
- Technical Customization diversity in plastic FV single header frame, aluminum alloy FV single flange (header) frame, or aluminum alloy HV box combined models.

Technical Specification

Model	Dimensions			Filter area (m ²)	Rated air flow (m ³ /h)	Filtration grade EN779	Filtration efficiency (%)
	W(mm)	H(mm)	D(mm)				
FV Single flange type	592	287	292	10.40	1700	F6-F9 H10-H14	65%-95% 99%-99.999%
	592	592	292	20.81	3400		
HV Box type	305	610	292	0.06	1700	F6-F9 H10-H14	65%-95% 99%-99.999%
	610	610	292	18.26	3400		

MEDIUM SYNTHETIC FIBRE POCKET FILTER



Application

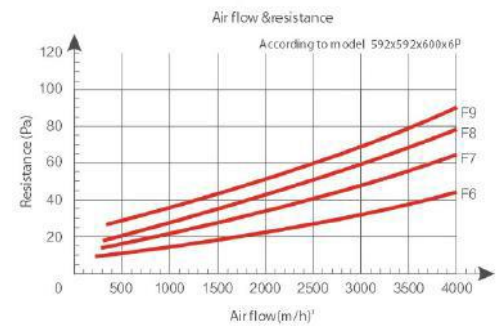
Mid-filter or end filter of foreign material filtration in commercial and Industrial ventilation/air conditioning systems.

- 1 Clean room fresh air conditioning system, mid-filter of fresh air unit. Ci
- 2 Secondary or end filtration of central air conditioning system.
- 3 Main filter of Air purification equipment.
- 4 High efficiency filter pre filter.

Technical Parameters

Filter level: FS, F6, F7(EN779) **Filter object :** Particulate $\geq 1 \mu\text{m}$ **Filtration efficiency :** 45%, 65%, 85% (ASHRAE52.1-1992)

Humidity: $\leq 100\%RH$ **Temperature:** $\leq 100^\circ\text{C}$ maximum in continue service **Instantaneous temperature resistance :** $\leq 120^\circ\text{C}$



Material & Features

- Filter material: with flexible and anti-tear super fine polyester fiber (PET), densify the material from air inlet to outlet. Also the outlet with hot surface treatment.
- Frame: galvanized steel frame ,Aluminum alloy frame, stainless steel frame or plastic frame.
- Features: multi pockets design ,high ventilation capacity ,large dust holding capacity. seamless high temperature fusion technology offers good airtightness and bonding strength. customized frame design ,the frame and the supporting frame can be used repeatedly.

Technical Specification

Model	Dimensions			Number of pockets	Rated air flow/Initial pressure drop (m³/h/Pa)	
	H(mm)	W(mm)	D(mm)			
FRS-ZXDW	592	592	600	6	3400/40	4200/60
	287	592	600	3	1700/40	2100/60

Remark: Other specifications can be customized

HIGH EFFICIENCY POCKET FILTER

The PureQuest medium to high efficiency extended surface pocket filters are manufactured from a high lofted synthetic fibre filter media. Our pocket filters offer excellent filtration performance combined with high dust holding capacity, they are very dependable even for applications where the highest degree of air cleanliness is required. PureQuest pocket filters have capability for the removal of contaminants such as bacteria, fungi, smoke, and fumes from the air stream. These are ideal bag filters for HVAC equipment installed in Hospitals, Laboratories, Food processing & Pharmaceuticals, Server Rooms, Data Centers, Optical and Electronic facilities, Airports Terminals, and Public Buildings.



Main Application

PureQuest utilizes a 100% synthetic filter media having high tensile strength developed through melt blown process. This media has an advantage of being heat sealed, thus avoiding any pin holes that are found in most conventional bag filters. The three-stage media arrangement which consist of coarse fibres upstream, micro-fine fibres mid-stream and downstream, protected by a scrim backing to prevent fibre migration ensures high dust holding capacity and filtration efficiency. Extended surface filtration area is provided by the media that is formed into individual dust holding pockets.

Technical Parameters

These pockets are embroidered using internal foles stitches or ultra-sonic welding processes with internal spacers to maintain uniform airflow channels for even dust loading and longer filter life. The evenly balanced pocket design allows full media inflation without crowding or restricting airflow to ensure optimum and equitable media utilization which results in long service life. Each pocket is bonded and sealed to its own "J" channel support frame which is fastened to a heavy-duty corrosion resistant steel frame with soft edges to avoid damage to the filter media. This design prevents air bypass by eliminating metal contact points between components. Plastic frame construction comes as an option.

Filter Class	F5 F6 F7 F8 F9 (EN779)	EU4-EU8 (EUROVENT4/5)
Nominal Air volume Flow rate	3400m ³ /h	
Differential Pressure	70 – 250 PA	
Filtration Efficiency	35% 45% 65% 85% 95%(ASHRAE52.1-1992)	
Thermal Stability	≤100% maximum in continue service	
Dust holding approx.	240 g/m ² (ASHRAE/ 250pa)	
Filter object:	particles ≥ 1 μ m	
Sizes	592 x 592 x 600 / 592 x 592 x 300	
Suitable for STD mounting frame	610 x 610	
Moisture Resistance	≤100%RH	
Differential Pressure	120 – 450 PA	
Fractional Efficiency @ 10 μm	100 % (Clean Filter)	
Fractional Efficiency @ 5 μm	100% (Clean Filter)	
Fractional Efficiency @ 3 μm	100 % (Clean Filter)	
Dust Holding Capacity	230g	

*Options available upon request

WASHABLE SELF SUPPORT PLEATED PANEL FILTER BONDED INTO A GALV OR PVC FRAME

The PureQuest washable pleated pre-filter has a high dust holding capacity, is economic and offers low resistance

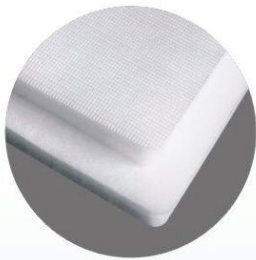


Main Application

The pleated panel filter can be used as the primary filter for removing micro particles in air handling units, spray booth air inflow systems. It can be used for dust removal in painting equipment, painting systems and painting workshops. This can also be utilised as a secondary filtering in high-quality painting system and air intake system of baking equipment.

Technical Parameters

Filter Class	G2, G3, G4(EN779), EU2 EU3 EU4(EUROVENT)
Nominal Air volume Flow rate	3400m ³ /h
Differential Pressure	70 - 250 PA
Filtration Efficiency	75% 85% 95% (ASHRAE 52.1-1992)
Thermal Stability	≤100% maximum in continue service
Dust holding approx.	240 g/m ² (ASHRAE/ 250pa)
Filter object:	particles ≥ 5 μ m
Sizes	595 x 595 x 48 / 595 x 595 x 96
Suitable for STD mounting frame	610 x 610
Moisture Resistance	≤100%RH
*Options available upon request	



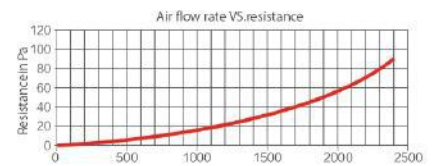
- Low resistance
- Flexibility
- High dust holding capacity
- Air outlet side pasted with cloth or mesh



Application

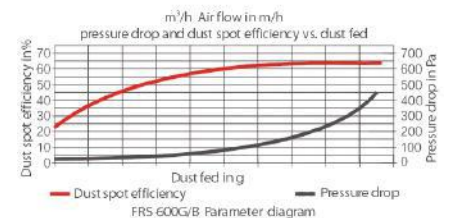
Mainly use for air intake system and painting workshops which are strict with spraying technology.

- 1 Filtering micro particles in spray booth air inflow system.
- 2 Dust removal in Painting equipment, painting system and painting workshop.
- 3 Secondary filtering in high-quality painting system and air intake system of baking equipment.
- 4 Medium filter media for producing air filter.
- 5 Can be customized in pad/pad with frame/roll.



Technical Parameters

Filtration grade: FS/MS(EN779), EUS(EUROVENT)	Inflaming retarding grade: F1(DIN 53438)	Humidity: ≥ 100%RH
Filter particles: ≥ 1 μm	Final pressure: 400Pa (suggested)	Temperature: ≥ 100°C maximum in continue service
Average arrestance: ≥ 98% (ASHRAES2.1-1992)	Dust holding capacity: 600g/m²	Instantaneous temperature resistance: ≥ 120°C



Material & Features

- Hot-blast air fusion technology with elastic and tenacious fiber combed to form compact filter structure.
- Every fiber was treated with sticky glue, improving the longer adhesive capacity of collected particles, in order to meet the coating technique in the strict quality requirements.
- Air outlet side pasted with cloth or mesh, in order to ensure the strength and effect of air uniformity.
- With better resistance to corrosion of general solvent, weak acid and Weak alkaline.

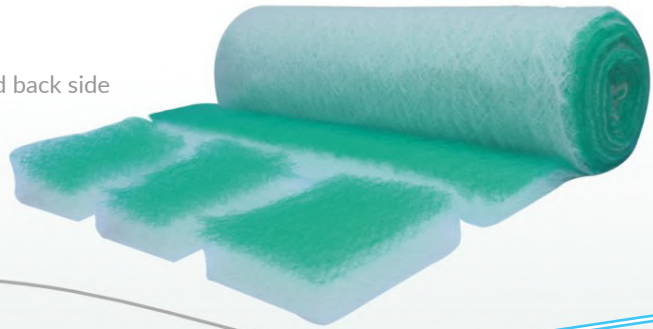
Technical Specification

Model	Dimensions			Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m²/h)
	Length(m)	Width(m)	Thikness(mm)			
FRS-600G	14:/ 21	1.6 / 2	22 ± 2	0.25	≤ 45	900

Remark: Other specifications can be customized



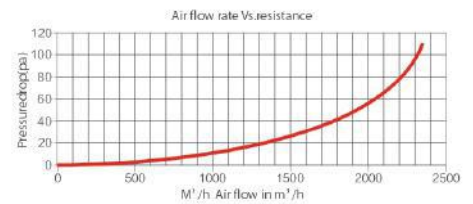
- Good smog filtration performance
- Low resistance
- Easy to identify front and back side
- Flexibility
- Economic



Application

Mainly used for paint mist emissions of painting system or industrial oil mist emissions, and it can be also used for pre filter of general ventilation.

- 1 Exhaust gas filtering and paint mist collection in spray booth exhaust system.
- 2 Exhaust gas filtering and paint mist collection in painting equipment, painting system, and painting workshop.
- 3 Industrial oil mist emissions and paint mist collection.
- 4 Filter media for paint stop air filter and primary air filter.
- 5 Pre-filtering for paint mist and oil mist type exhaust gas purification device.
- 6 Can be customized in pad/pad with frame/roll.



Technical Parameters

Filtration grade: G3(EN779), EU3(EUROVENT)	Humidity: ≤ 100%RH	Inflaming retarding class: F1(DIN 53438)
Final pressure: 200Pa (suggested)	Average arrestance: PA-50 ≥ 90%, PA-75 ≥ 95% , PA-100 ≥ 98%	
Filter particles: Paint mist, Oil mist, Dust particles	Temperature: ≤ 170°C maximum in continue service	

Material & Features

- Using fluffy fiber glass material with Progressive structure, air inlet side is green, which is fluffy. The density of fiber increase gradually from inlet side (green) to outlet side (white). With this special structure, it can prevent surface material from being blocked too soon, meanwhile providing best effect of filtering and holding the paint.
- Good elasticity fiber glass, no transformation even under the condition of pressure, therefore all the space can be made good use for collecting paint mist.

Technical Specification all kind of solvent, acid-base and high temperature.

Model	Dimensions			Waight (g/m ²)	Rated air Velocity (m/s)	Initial air flow (m ³ /h)	Initial pressure (Pa)	Average arrestance	Paint capacity (g/m ²)
	Length(m)	Width(m)	Thickness(mm)						
PA-50	20	0.8/1/2	50-60	250	2.0	7200	≤ 30	≥90%	>3500
PA-75	20	0.8/1/2	70-80	300	1.75	6300	≤ 40	≥95%	> 4000
PA-100	20	0.8/1/2	90-100	350	1.5	4500	≤ 50	≥98%	> 4500

Remark:Other specifications can be customized



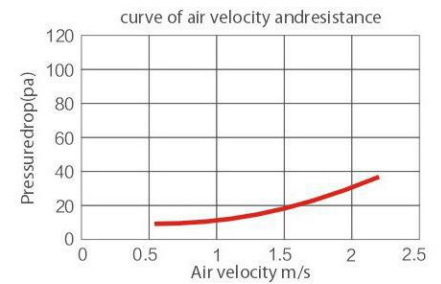
- Water-proof
- Low resistance
- Flexibility
- Economic



Application

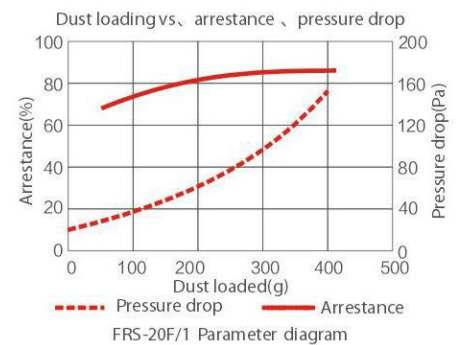
Suitable for all kinds of ventilation equipment, dedusting equipment, air supply system.

- 1 Dust removal in air conditioning and air ventilation system.
- 2 Various dust removal for electromechanical and machine rooms.
- 3 Pre filter for high quality spraying system and air supply system in baking device.
- 4 Primary filter media for producing air filter.
- 5 Can be customized in pad/pad with frame/roll.



Technical Parameters

Filtration grade: G2(EN779), EU2(EUROVENT)	Inflaming retarding grade: F 1(DIN 53438)	Humidity: ≤ 100%RH
Filter particles: ≥ 5μm	Final pressure: 250Pa (suggested)	Temperature: ≤ 100°C maximum in continue service
Average a restance: ≥ 75% (ASHRAES2.1-1992)	Dust holding capacity: 400g/m ²	



Material & Features

- Progressively built up thermal bonded by elastic and resistant polyester fibre.
- Can be reused after flapping, washing and blowing of glue spraying treated ones.
- With better resistance to corrosion of general solvent, weak acid and Weak base.

Technical Specification

Model	Dimensions			Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m ² /h)
	Length(m)	Width(m)	Thikness(mm)			
FRS-20/FRS-20KX	20	1 / 2	10 ± 2	2.0	≤ 30	7200

Remark: Other specifications can be customized



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