Pre-filter and medium Folding Filter with Metal Frame

Description:

They are manufactured with nonwovens and glass fiber, etc. as the filtering materials. The wedge-shaped folds are used to enlarge the filtering area. They can also be manufactured to be a plate structure clamped with wire netting or supported with an inside metal framework and equipped with a metal outside frame. They have the characteristics of low resistance, long service life, can be washed, economy and durability, etc.

Application:

They are generally used in the prefiltration of the central air conditionings and the centralized ventilation systems and the prefiltration of the gas turbines and the air compressors.

Structure:

The inside structures of the filter are generally divided into keel framework and frame framework. The he characteristics of the keel framework include hardihood and uniform distribution of filtering materials, but its manufacture take time and energy. The characteristics of the frame framework include convenience in the exchanging of filter materials and time saving for its manufacture, but its strength is slightly poorer than that of the keel framework.

Filter material:

Nonwovens, synthetic fiber, (imported) chemical fiber, (imported) glass fiber and nylon meshwork that can be washed can be used as the filtering materials. The most commonly used ones are nonwovens, glass fiber and nylon meshwork. Their efficiencies can be up to coarse efficiency or medium efficiency.

Technical data:

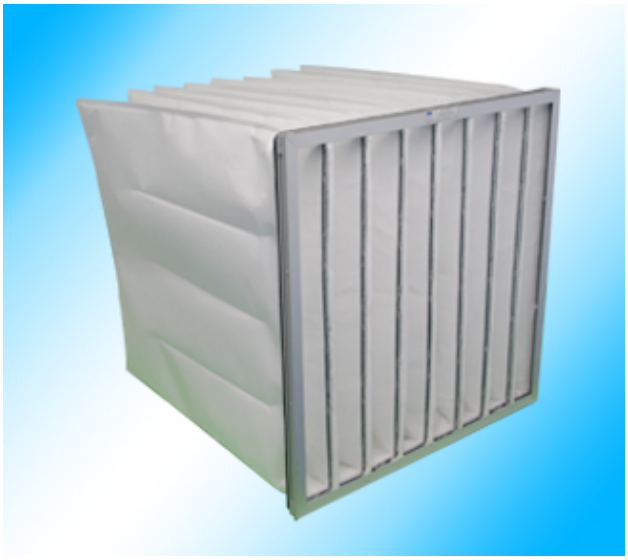
efficiency	Dust Holding Capacity (g/m^2)	Initial resistance (Pa)	Properties
G3	90	<50	
F5	160	<40	
G3	90	<40	Anti-flaming
G4	36.6	<35	Anti-flaming
G4	32.3	<35	Anti-flaming
F5	28	<35	Anti-flaming

Medium-efficiency Bag Filter

Description:

Medium-efficiency bag filter is mainly used to filtrate the dust particles with the diameter of 0.5μm and above. It has the advantage of more filtering area, high dust holding capacity, low resistance, and can be washed and used repeatedly, etc.

Applications:



Bag filters are extensively used in the ventilation systems of the central air conditionings and the purification of pharmacy industry, hospital, electron industry, and food industry, etc. Additionally, they can also be used in the front end filtration of the high-efficiency air filters to reduce their loads and prolong their service lives. Bag filters have dust holding capacity and low wind speed because of their big windward area. Therefore, they are regarded as the best medium-efficiency filter structure up to present.

Structure:

They use new-type complex nonwovens or imported minute glass fiber and imported synthetic fiber and are covered with reinforcing and molding filter materials. They have bag-shaped moulds and are equipped with all kinds of metal outside frames (galvanizing plate, iron plate, and aluminum alloy, etc.)

Filtering Material:

Generally, there are three kinds of filtering materials used, namely, complex nonwovens, synthetic fiber, and glass fiber.

Technical data:

Dust Holding Capacity(g/m^2)	Initial Resistance(pa)	Efficiency Grade
150	55	F5
107.6	50	F5
140	65	F6
96.9	60	F6
36.6	60	F6
120	120	F7
80.7	110	F7
32.3	110	F7
110	120	F8
75.3	120	F8
16.1	120	F8

Normal Specifications

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Dimensions (mm)	Number of bags	Rated Air Flow(m^3/h)
595×595×600	6	3600
595×295×600	3	1800
595×595×500	6	3000
595×295×500	3	1500
495×495×500	5	2000
495×295×500	3	1200
495×595×600	6	3000
595×495×600	5	3000

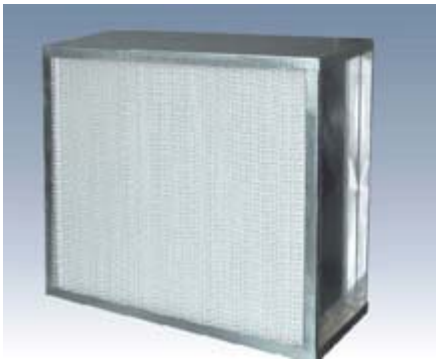
Medium-efficiency and Sub-High-efficiency Box Filter

Description:

Medium-efficiency and Sub-High-efficiency box filters use the complex chemical fiber synthetic fiber and glass fiber filtering materials and are equipped with inside metal supports and high-strength outside frame of galvanizing plate. They have the characteristics of firm structure, low resistance, high air quantity, and long service life, etc. Furthermore, their filter elements can be replaced and their use-costs can be reduced.

Application:

Generally, they are used in the medium-efficiency and sub-high-efficiency filtration of the central ventilation systems and extensively used in the cleansing workshops of intelligent mansions as the prefilteration of the high-efficiency filters. They are suitable for the ventilating and air conditioning systems with changed air quantity.



Structure:

They are separated and supported with inside metal supports and have high-strength outside frame of galvanizing plate.

Technical data:

Specification (inch)	Initial Resistance (pa)	Rated Air Flow (m^3/h)	Efficiency Grade
24×24×12	80	3200	F5
24×12×12	80	1600	F5
24×24×12	100	3600	F6
24×12×12	100	1800	F6
24×24×12	125	3000	F7
24×12×12	125	1500	F7
24×24×12	135	2600	F8
24×12×12	135	1300	F8
24×24×12	60	3500	F5
24×12×12	60	1750	F5
24×24×12	75	3800	F6
24×12×12	75	1900	F6
24×24×12	95	3300	F7
24×12×12	95	1650	F7
24×24×12	105	3000	F8
24×12×12	105	1500	F8

HEPA (with or without clapboard)

Application:

The product has the features of high-efficiency, low resistance, high dust holding capacity. It is widely used for all levels of clean rooms. It can be installed as final filter equipment as well as an accessory of all kinds of purified equipments.

Technical data:

The different specifications are available according to customers' requirement.

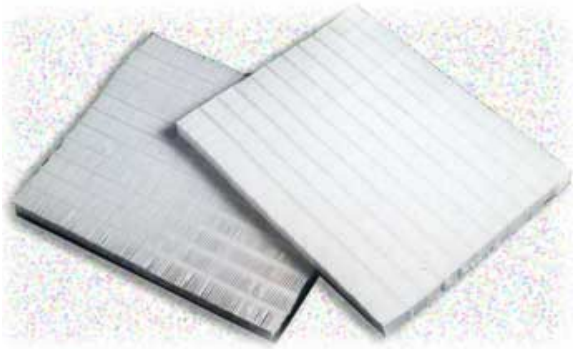
Dimension （mm）	Rated flow rate (m^3/h)	Initial/final resistance (Pa)	Dust Holding Capacity (g/m^2)	Face Velocity (m/s)	Efficiency (0.3μm)
1220×610×90	2600	≤160 / 400	1600	0.97	99.99%
915×610×90	1900		1200		
610×610×90	1300		800		
915×610×69	1500		1000	0.75	
610×610×69	1000		650		
915×610×50	1200		700	0.6	
610×610×50	800		450		

ULPA filter

Features:

High efficiency: 99.9995% capturing 0.12 μm or above.

Application: be widely used in the place where the clean air is strictly required; it suits for manufacturing plants for semiconductors, cleanrooms, clean bench, clean booth, ect.



Type: high efficiency foldaway filter

Frame: aluminum frame

Separation material: hot melt adhesive

Media: good quality imported fiber glass paper (0.12μm)

Final resistance: (suggest)400PA~600PA

Max. air flow: 125% of the rated air flow

Temperature resistance: 80℃

Humidity：≤80%

Standard size: 610*610*70mm, 1220*610*70mm