

Filtration. Separation. Solutions



# **AIR FILTRATION**

APPLICATIONS

**FEATURE-TEC**

# CLEAN AIR FILTRATION SOLUTION

## **Clean air filtration solutions ——Make the world cleaner, make life better**

It is difficult to judge the performance of the air quality control system by observation alone, and the particles it captures are usually invisible to the human eye. Since filtration systems usually run continuously for a long time, laboratory tests are currently used to compare filter performance. In order to make laboratory tests fair, industry standards have been established to define test methods for air filters.



### The difference between ISO16890 and EN779 and ASHRAE 52.2

ISO16890 is more comprehensive for filter testing. This also puts forward higher requirements on the filter performance, so as to improve the indoor air quality and protect human health.

	ASHRAE 52.2	EN779	ISO 16890
Flow rate (m <sup>3</sup> /h)	800-5000	850-5400	900-5400
Test aerosol	Polydisperse KCl (counting efficiency)	DEHS (counting efficiency)	DEHS & KCl (Comprehensive efficiency)
Particle size range (µm)	0.3-10	0.2-3	0.3-10
Test method	Efficiency test 0.3-10µ particles, graded by E1, E2, E3 efficiency	The efficiency test is for an average of 0.4µ particles	Efficiency test 0.3-10µ particles, graded by ePM1, ePM2.5, ePM10 efficiency
Sampling instrument	Optical particle counter	Optical particle counter	Particle size spectrometer
Static elimination method	Pipe static elimination	Isopropanol soaking	The filter is fumigated with IPA
The grading method	MERV1-16(16 groups)	G1-4, M5-F9 (9 groups)	ePM1、ePM2.5、ePM10、Coarse (4 groups)

### ISO 16890: Classification system overview

The four ISO filter groups serve only one goal- Simple

	ePM1 min	ISOePM2.5	ISOePM10
ISO Coarse	-	-	<50 %
ISO ePM10	-	-	>/=50 %
ISO ePM2.5	-	>/=50 %	-
ISO ePM1	>/=50 %	-	-

The "e" prefix represents the initial efficiency of removing 50% of the electrostatic efficiency. In order to fall into each group, the filter must be able to capture at least 50% of the particles in that size range. Filters that capture less than 50% of PM10 dust fall into the "coarse efficiency" group. However, not all products in the filtering level are the same. In the product literature and test report, the efficiency of the filter will be explained in detail along with the group. Therefore, you might see terms such as ePM2.5 60% or ePM1 95%. This simply means that the first filter provides 60% efficiency at PM2.5, while the second filter provides 95% efficiency at PM1. The filtration efficiency is rounded to the nearest 5%, so you should not touch any product listed as ePM10 89%.

### Test method for EN 1822 high-efficiency air filter

According to the decision of CEN/TC195, the basis of the European standard is the particle counting method, which actually meets the needs of various applications in most occasions. The difference between the European standard and the earlier standards of the same family is the method of determining the total efficiency. The current new technology is based on the counting of particles with the most permeable particle size (MPPS range:  $0.12\mu\text{m} \sim 0.25\mu\text{m}$ ) instead of the total mass of particles. In addition, the counting method can measure ultra-high efficiency filters, and the past test methods cannot measure that kind of filters due to sensitivity limitations. European standards apply to high-efficiency and ultra-high-efficiency air filters (HEPA and ULPA) used in the fields of ventilation and air conditioning, as well as clean rooms, nuclear industry, pharmaceutical industry and other places.

The standard establishes a set of methods for determining the effectiveness of filters. The basis is particle counting, the dust source is liquid aerosol, and the filter is standardized according to efficiency.

#### 1: Classification, performance testing and identification

EN 1822 is divided into three groups:

Group E: EPA - High-efficiency particulate air filter

Group H: HEPA - High-efficiency special air filter

Group U: ULPA - ultra-low permeable air filter

#### 2: Particle count statistics

Absolute filtration is classified according to the local and overall filtration efficiency determined during the test.

Filter efficiency level	Overall value		Local value	
	Efficiency (%)	Penetration(%)	Efficiency(%)	Penetration(%)
E10	$\geq 85$	$\leq 15$		
E11	$\geq 95$	$\leq 5$		
E12	$\geq 99.5$	$\leq 0.5$		
H13	$\geq 99.95$	$\leq 0.05$	$\geq 99.75$	$\leq 0.25$
H14	$\geq 99.995$	$\leq 0.005$	$\geq 99.975$	$\leq 0.025$
U15	$\geq 99.9995$	$\leq 0.0005$	$\geq 99.9975$	$\leq 0.0025$
U16	$\geq 99.99995$	$\leq 0.00005$	$\geq 99.99975$	$\leq 0.00025$
U17	$\geq 99.999995$	$\leq 0.000005$	$\geq 99.9999$	$\leq 0.0001$

# THE RIGHT ONE IS THE BEST

Choosing only the filter with the lowest energy consumption may endanger the health of people in the building. However, excessive pursuit of filtration efficiency may lead to higher energy consumption.

There is a problem with air filters: as the filtration efficiency increases, energy consumption also increases. Therefore, choosing a filter that can provide a high standard of air quality usually means that you consume more energy, which is not conducive to your budget and low-carbon environmental protection concept.

FEATURE will conduct a comprehensive analysis of your needs, including measuring the air quality inside and outside the building. Based on these data, we can configure the ideal filtering solution to meet your individual needs. This configuration will provide you and the environment with a safe air quality level at the lowest cost.

## Typical contaminants

Filter class, typical contaminants and applications

Group	Class	Typical Contaminants	Typical Applications
Coarse ISO 16890	50%	Leaves, insects, textile fibers	Low grade applications (e.g. For protection against insects and leaves)
	60%	Human hair, sand, water droplets	Low grade applications (e.g. for protection against sand and water droplets)
	70%	Sand dust , plant spores	Compact room air conditioners
	80%	Pollen, fog	Compact room air conditioners, prefilter for ePM2.5 and ePM1 filters
ePM10 ISO 16890	50%	Spores, sedimenting particles, cement	Inlet filter for very low requirement rooms, prefilter for ePM2.5 and ePM1 filters
	70%	Larger bacteria & fungus, PM10 dust	Inlet filter for low requirements rooms, prefilter for ePM1 and E10 filters
ePM2.5 ISO 16890	50%	Soot, lung damaging dust (PM2.5)	Inlet filter for low requirements rooms, prefilter for ePM1 and E10 filters
ePM1 ISO 16890	60%	PM1 dust, cement dust (fine fraction)	Recirculated air in AC plants, prefilter for E11 and E12 filters
	85%	Oil smoke, bacteria	Prefilter for H13 and H14 filters and gas adsorption filters
EPA Filters EN 1822	E10	Germes, tobacco smoke	Final filter for air-conditioned rooms of very high standard (e.g. hospitals)
	E11	Viruses on carrier particles, carbon black	Final filter for cleanrooms ISO class 7 – 8
	E12	Oil fumes, sea salt nuclei	Final filter for cleanrooms ISO class 5 – 6
HEPA Filters EN 1822	H13	Radioactive particles	Final filter for ISO class 5 - 6 cleanrooms, military shelters and food, electronics & pharma industries. Exhaust filter in nuclear applications.
	H14	Viruses	Final filter for cleanrooms ISO class 4 – 5
ULPA Filters EN 1822	U15	All air suspended particulate matter	Final filter for cleanrooms ISO class 3 – 4
	U16	All air suspended particulate matter	Final filter for cleanrooms ISO class 3 – 4
	U17	All air suspended particulate matter	Final filter for cleanrooms ISO class 1
Physisorption Gas Filters Chemisorption	Physisorption	VOCs, solvent vapors, kitchen odors	Airports, office buildings, hotels, hospitals, improvement of IAQ
	Gas Filters	Acidic Gases, SO <sub>2</sub> , SO <sub>4</sub> , NO <sub>2</sub> , NO <sub>x</sub>	Computer and control rooms, microelectronics, museums, libraries
	Chemisorption	Amines, NH <sub>3</sub> , NH <sub>4</sub> , NMP, HMDS	Recirculated air in microelectronics industry

## FEATURE Air Filtration Product Catalog

For air pollution caused by different occasions, different pollution levels and different pollution reasons, how to effectively and low-consumption treatment is a complicated multiple choice question for every customer. FEATURE professional technical application team can help you diagnose the problem, analyse the process, formulate the optimal process, and provide a better overall solution for air purification.

Product series	Product Name	Page
Intake series products	ZP Paper frame filter	10
	KP Replaceable plate filter	12
	MP Non-partition filter	14
	JP Metal mesh filter	16
	IP With partition filter	18
	HP High temperature resistant filter with partition	20
	BH High temperature pleated filter	22
	WP W type filter	24
	VP V type high efficiency filter	26
	MB Bag filter	28
Integrated products	GT Air Purifier	31
	CT Chemical filter	35
	CC Oil mist coalescing filter	37
	CA Particle filter	38
Exhaust series products	WRL-101 Waterproof louver	39
	ACL-101 Noise reduction louver	42



ZP  
Paper frame filter



KP  
Replaceable plate filter



MP  
Non-partition filter



JP  
Metal mesh filter



IP  
With partition filter



HP  
High temperature  
resistant filter  
with partition



BH  
High temperature  
pleated filter



WP  
W type filter



VP  
V type high efficiency filter



MB  
Bag filter



GT  
Air Purifier



CT  
Chemical filter



CC  
Oil mist coalescing filter



CA  
Particle filter



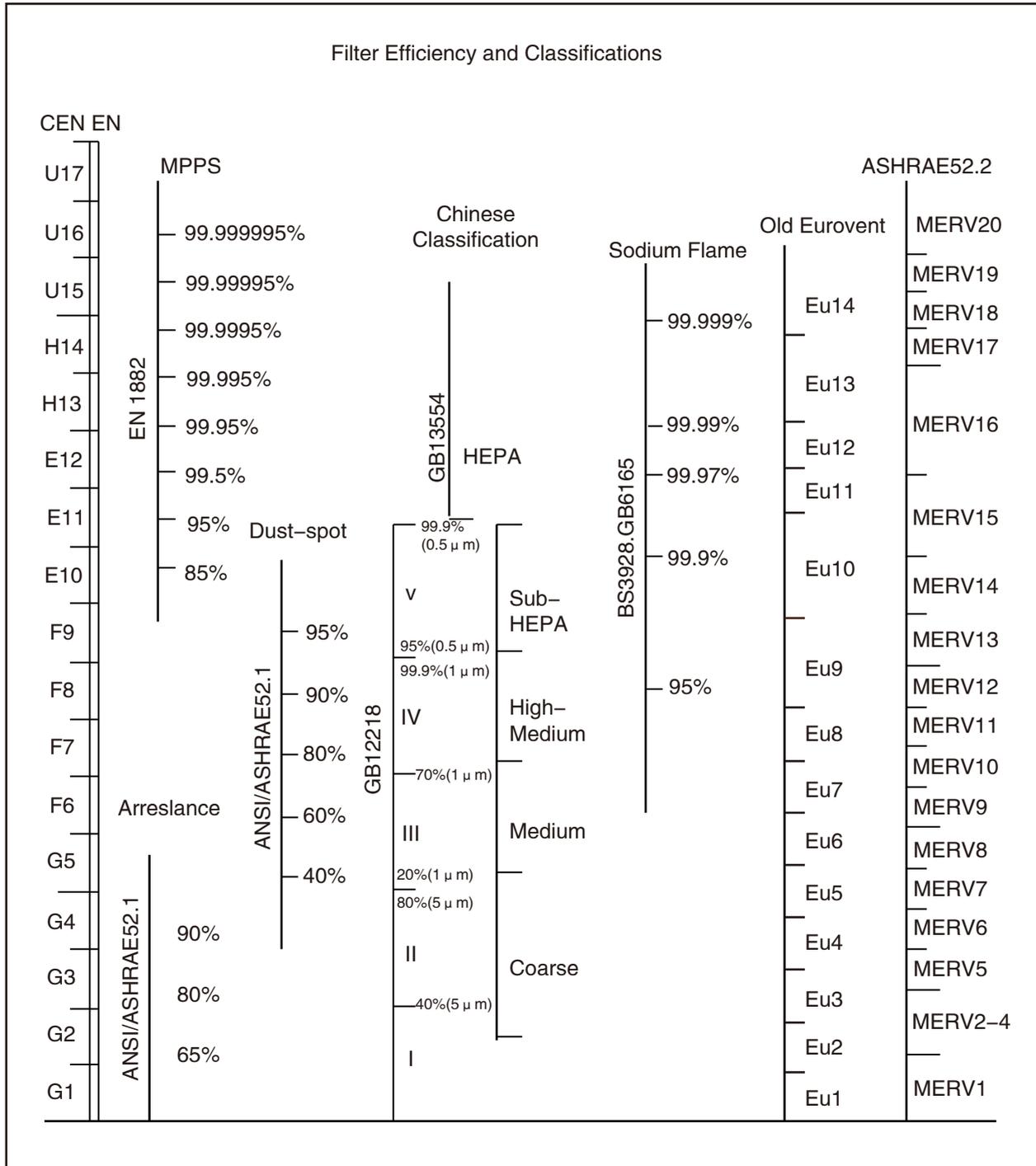
WRL-101  
Waterproof louver



ACL-101  
Noise reduction louver

**Air filter specification comparison table**

This table details the domestic and foreign classification standards and test methods of air filters. It services as a good reference to choose the right & suitable products.



# GENERAL VENTILATION

## Our contribution to improving energy efficiency and climate protection

Any buildings, clean workshops, etc. have a need for ventilation, and places where people are active need air circulation and clean air supplement; all the energy consumption of air circulation comes from the system pressure difference before and after the fan, and the initial pressure drop of the air purification unit. And the rising pressure drop during use is the main source of energy consumption.

A large number of cases show that the optimized design and manufacture of air filter units can greatly reduce the energy consumption of building ventilation systems, and can also reduce the use cost of filter element replacement and waste disposal costs.



ZP



WP



IP



MB



MP

### Some suggestions for filter selection

1. Choose a pre-filter with sufficient efficiency
2. Choose a pre-filter with a large filtering area
3. High efficiency air filters must be tested one by one
4. Under the same air volume, choose a filter with low resistance
5. Choose a standard size filter

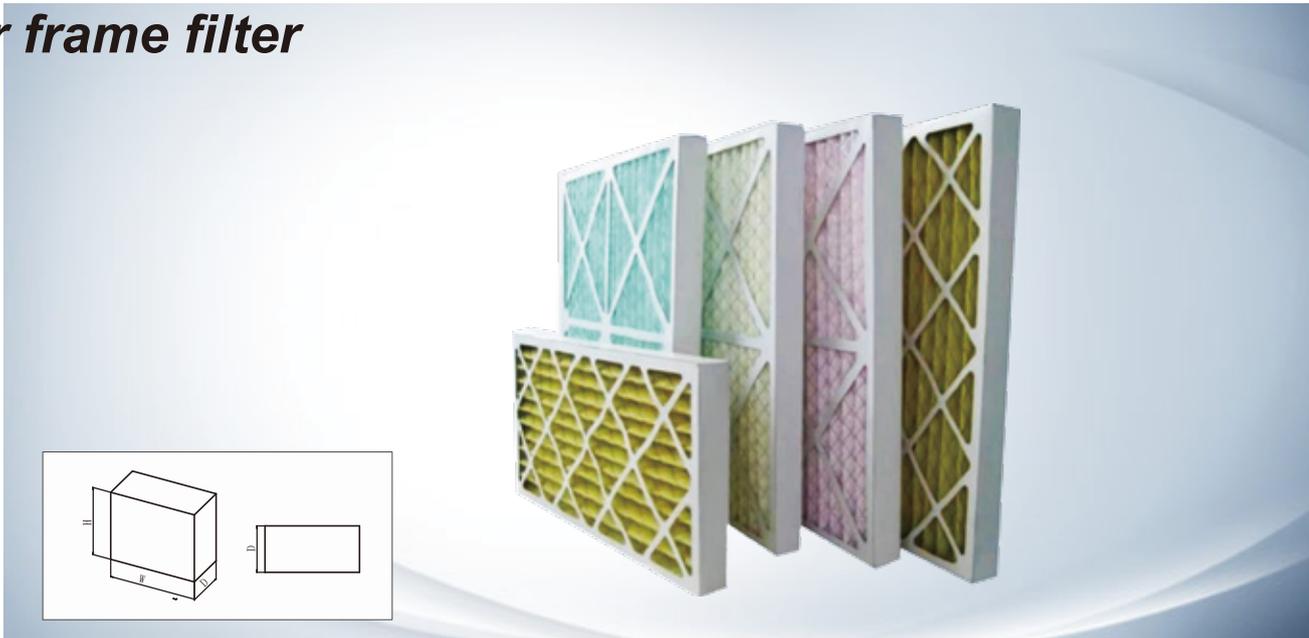
### Instructions for use

The resistance of the filter should be checked regularly during operation (each filter should be equipped with a resistance monitoring device) to determine when to replace the filter. The filter replacement period is shown in the following table (for reference)

Classification	Check content	Replacement period
Fresh air inlet filter	Is the mesh more than half blocked ?	Clean once a week or so
Coarse filter	The resistance has exceeded the rated initial resistance by about 60 Pa, or equal to 2 times the design or operating initial resistance	1-2 months
Medium efficiency filter	The resistance has exceeded the rated initial resistance by about 80Pa, or equal to 2 times the design or operating initial resistance	2-4 months
Sub-high efficiency filter	The resistance has exceeded the rated initial resistance by about 100Pa, or equal to 2 times the design or operating initial resistance (low resistance and sub-efficient is 3 times)	More than 1 year
High efficiency filter	The resistance has exceeded the rated initial resistance by about 160 Pa, or equal to 2 times the design or operating initial resistance	Over 3 years

# ZP

## Paper frame filter



*ZP paper frame filters are widely used in the initial filter section of the ventilation system of industrial, commercial and civil buildings due to their characteristics of deletion, easy installation, low resistance and high dust holding capacity.*

### Product Features

- Solid and reliable as metal mesh on the air outlet surface
- One-time use, can be incinerated to avoid secondary pollution
- Low pressure loss, long service life
- Light weight and strong versatility

### Typical Applications

- Pre-filtration of commercial and industrial ventilation and air conditioning systems
- Purification and filtration of general indoor ventilation systems
- Pre-filtration of household air-conditioning purification equipment

### Materials

- Filter media: synthetic multi-net fiber
- Outer frame: paper(cardboard) frame
- Conditions of use:  
Maximum temperature: 60°C  
Maximum humidity: 60%RH

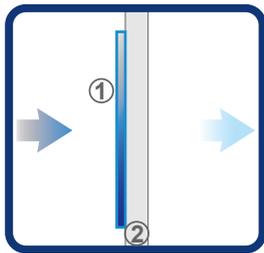
■ ZP Paper frame filter

### Product Specifications

Model No.	Dimension (HxWxD)		Initial Resistance(Pa) /Flow Rate(m <sup>3</sup> /h)		Effective Filtration Area (m <sup>2</sup> )	Recommended Final Resistance (Pa)
	(Inch)	(mm)				
ZPG3HZXC	24x12x2	592x287x45	25/800	35/1100	0.45	110
	24x24x2	592x592x45	25/1700	35/2300	0.9	
ZPG4HZXC	24x12x2	592x287x45	30/800	50/1100	0.45	150
	24x24x2	592x592x45	30/1700	50/2300	0.9	

1. Resistance error ±10%;

2. Can be customized according to needs, please contact Feature-Tec Environmental Customer Service or local dealers for details



#### Recommended installation method

- ① Filter element
- ② Installation base

### Order Code

Type Code ZP	Grade G3	Filter Media H	Outer Frame Z	Gasket X	Mesh Plate C	Dimension (mm) HxWxD
ZP- Paper frame filter	G3 G4	H- Synthetic multi-net fiber	Z-Paper frame	X- No Gasket	C-Mesh on Outlet side	Refer to the above table

1. The brochure is for reference only, and the actual product shall prevail;

2. The company reserves the right of final interpretation.

# KP

## Replaceable plate filter



*KP replaceable plate filter are widely used in the initial filter section of the ventilation system of industrial, commercial and civil buildings due to their reusability, easy installation, low resistance and high dust holding capacity.*

### **Product Features**

- Easy installation and reliable sealing
- Low resistance and good versatility
- The frame is removable and the filter material can be replaced
- Lightweight structure, easy to handle and install

### **Typical Applications**

- Primary filtration of air conditioning system
- Centralized ventilation system for automobile industry and general industry
- Large-scale civil building ventilation and air-conditioning system

### **Materials**

- Filter media: synthetic fiber
- Outer frame: Galvanized sheet/aluminium alloy/stainless steel
- Conditions of use:  
Maximum temperature: 60°C  
Maximum humidity: 100%RH

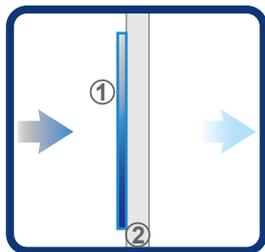
■ KP Replaceable plate filter

## Product Specifications

Model No.	Dimension (HxWxD)		Initial Resistance(Pa) /Flow Rate(m <sup>3</sup> /h)		Effective Filtration Area (m <sup>2</sup> )	Recommended Final Resistance (Pa)
	(Inch)	(mm)				
KPG3HCXC	24x12x2	592x287x45	40/800	60/1100	0.5	200
	20x20x2	500x500x45	40/1200	60/1600	0.6	
	24x24x2	592x592x45	40/1700	60/2300	1	
KPG4HCXC	24x12x2	592x287x45	50/800	80/1100	0.5	200
	20x20x2	500x500x45	50/1200	80/1600	0.6	
	24x24x2	592x592x45	50/1700	80/2300	1	
KPM5HCXC	24x12x2	592x287x45	70/800	100/1100	0.5	250
	20x20x2	500x500x45	70/1200	100/1600	0.6	
	24x24x2	592x592x45	70/1700	100/2300	1	

1. Resistance error  $\pm 10\%$ ;

2. Can be customized according to needs, please contact Feature-Tec Environmental Customer Service or local dealers for details.



### Recommended installation method

- ① Filter element
- ② Installation base

## Order Code

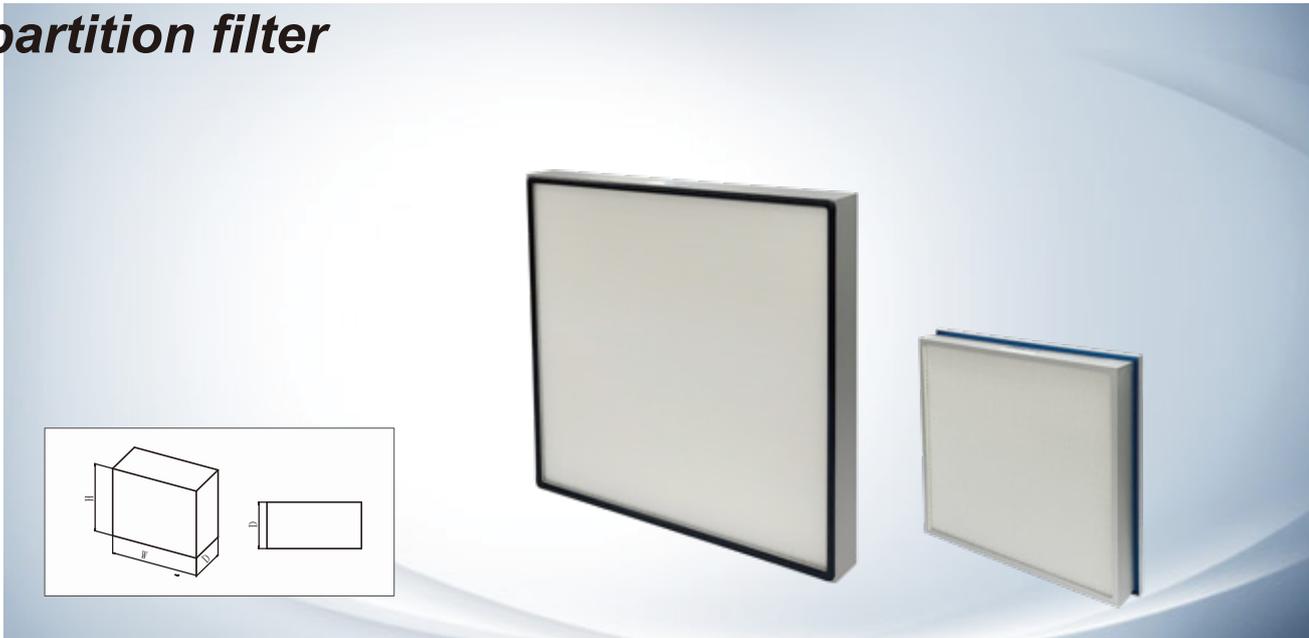
Type Code KP	Grade G3	Filter Media H	Outer Frame C	Gasket X	Mesh Plate C	Dimension (mm) HxWxD
KP- Replaceable plate filter	G3	H-Synthetic fibre	C-	C- At outlet side	C-Mesh on Outlet side	Refer to the above table
	G4		Galvanized sheet	Y- At inlet side	Y-Mesh on Inlet side	
	M5		A- Aluminium alloy	S- At both inlet & outlet side	S-Mesh on both Inlet & Outlet side	
			E- Stainless steel	X- No Gasket	N- No Mesh Plate	

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2. The company reserves the right of final interpretation.

# MP

## Non-partition filter



*MP non-partition filter adopts a filter material with excellent performance that combines ultra-high efficiency and ultra-low resistance. It has the characteristics of low resistance, high dust holding capacity, easy installation, and easy disassembly.*

### **Product Features**

- Ultra-thin design, save space
- Lightweight and easy to install
- Large filtration area, low resistance, high efficiency
- Large dust holding capacity, long service life, low operating cost

### **Typical Applications**

- Electronics manufacturing, semiconductors
- Precision machinery, pharmaceuticals, hospitals
- Places with high cleanliness requirements such as food and cosmetics

### **Materials**

- Separator: Hot melt adhesive
- Sealant: Polyurethane
- Conditions of use:  
Maximum temperature: 60°C  
Maximum humidity: 100%RH

■ MP Non-partition filter

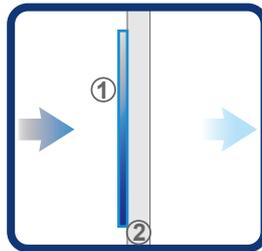
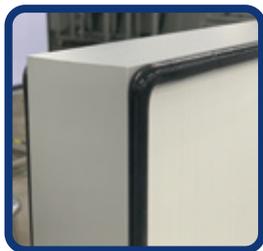
**Product Specifications**

Model No.	Dimension (HxWxD)		Effective Filtration Area (m <sup>2</sup> )	Rated wind speed (m/s)/ Resistance (Pa)					
	(Inch)	(mm)		M6	E10	E12	H13	H14	U15
MP*BAYC	24x24x2	610x610x50	7.8	1.0/90	0.7/105	0.5/120	0.4/125	0.4/145	/
	24x36x2	610x915x50	13.5						
	22x46x2	570x1170x50	16.2						
	46x46x2	1170x1170x50	32.7						
	24x48x2	610x1219x50	17.8						
	48x48x2	1219x1219x50	37						
	24x24x3	610x610x70	10.7	1.2/85	0.8/90	0.5/90	0.45/105	0.45/120	0.45/145
	24x36x3	610x915x70	16.2						
	22x46x3	570x1170x70	19.5						
	46x46x3	1170x1170x70	40						
	24x48x3	610x1219x70	21.7						
	48x48x3	1219x1219x70	44						
	24x24x3	610x610x80	13.4	1.5/60	0.8/75	0.5/85	0.45/90	0.45/105	0.45/125
	24x36x3	610x915x80	20.2						
	22x46x3	570x1170x80	24						
	46x46x3	1170x1170x80	49.8						
	24x48x3	610x1219x80	25.3						
	48x48x3	1219x1219x80	54.8						
MP*BABS	24x24x4	610x610x93	13.6				0.75/200	0.75/230	0.75/265
	24x36x4	610x915x93	20.8						
	24x48x4	610x1219x93	27.9						

1. Resistance error±10%;

2. Depth (D) can be up to 305mm

3. Can be customized according to needs, please contact Feature-Tec Environmental Customer Service or local dealers for details.



**Recommended installation method**

- ① Filter element
- ② Installation base

**Order Code**

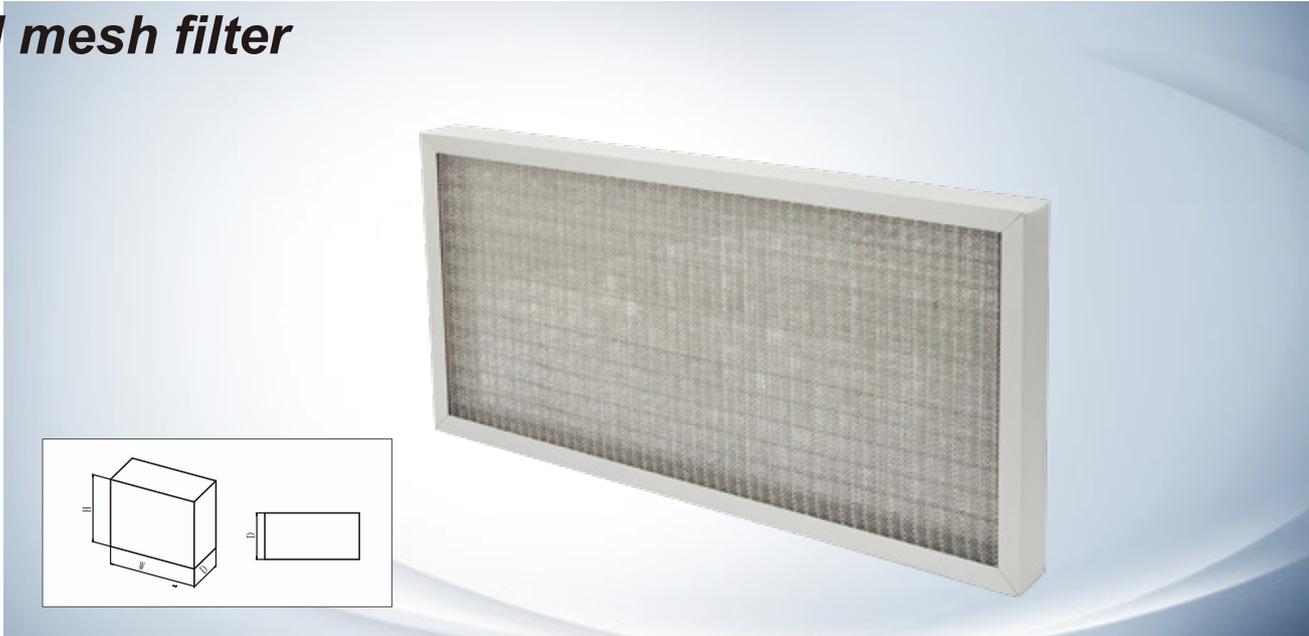
Type Code MP	Grade M6	Filter Media B	Outer Frame A	Gasket Y	Mesh Plate C	Dimension (mm) HxWxD
MP-Non-partition filter	M6、F7、	B- Glass fiber	C- Galvanized sheet	C- At outlet side	C-Mesh on Outlet side	Refer to the above table
	F8、F9、	T- PTFE	A- Aluminium alloy	Y- At inlet side	S-Mesh on both Inlet & Outlet side	
	E10、E11、	Composite material	E- Stainless steel	S- At both inlet & outlet side	N- No Mesh Plate	
	E12、H13、					
	H14、U15、					
U16			B-Side Gel Seal			

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# JP

## Metal mesh filter



*JP metal mesh filter are widely used in the initial filter section of the ventilation system of industrial, commercial and civil buildings due to their reusability, easy installation, low resistance and high dust holding capacity.*

### **Product Features**

- Multi-level structure, increase filter area
- Can be cleaned, reducing operating costs
- Filter material can choose aluminum, stainless steel

### **Typical Applications**

- General building air conditioning system
- Industrial ventilation system
- Acid and alkali resistant ventilation system
- Filtration of spray booth in automobile factory

### **Materials**

- Filter media: Aluminum alloy mesh/stainless steel mesh
- Outer frame: Galvanized sheet/aluminium alloy/stainless steel
- Conditions of use:  
Maximum temperature: 600°C  
Maximum humidity: 100%RH

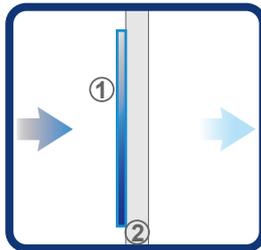
■ JP Metal mesh filter

### Product Specifications

Model No.	Dimension (HxWxD)		Initial Resistance(Pa) /Flow Rate(m <sup>3</sup> /h)	Recommended Final Resistance
	(Inch)	(mm)		(Pa)
JPG2AE	24x24x1	592x592x25	20/3600	50
	24x24x2	592x592x46		

1. Resistance error  $\pm 10\%$ ;

2. Can be customized according to needs, please contact Feature-Tec Environmental Customer Service or local dealers for details.



#### Recommended installation method

- ① Filter element
- ② Installation base

### Order Code

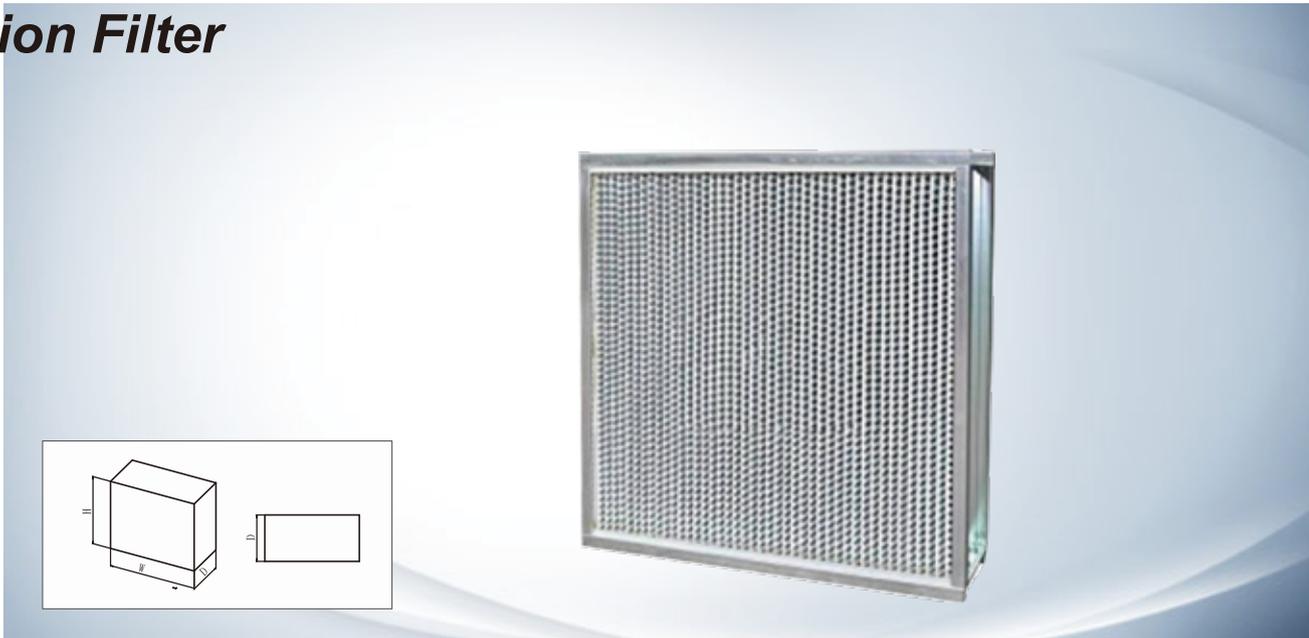
Type Code JP	Grade G2	Filter Media L	Outer Frame E	Dimension (mm) HxWxD
JP-Metal mesh filter	G2	A- Aluminum alloy mesh	E- Stainless steel	Refer to the above table
	G3	E- Stainless steel mesh	C- Galvanized sheet A- Aluminium alloy	

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# IP

## Partition Filter



*IP Partition Filter has an extended filter surface. It is compact, light-weighted and widely used in the medium and high efficiency filter section of various industrial, commercial, and civil building ventilation systems.*

### **Product Features**

- Wedge-shaped pleated layer design prevents damage to the filter material.
- Ultra-fine glass fibre high-density filter paper, water-resistant and flame-retardant.
- Large filter area, low resistance and high efficiency

### **Typical Applications**

- Hospital
- Office Building
- School
- Shopping Mall

### **Materials**

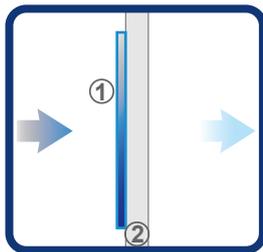
- Sealant: Polyurethane adhesive
- Separator: Aluminium foil/paper partition
- Continuous and stable operating temperature: 60 C
- Maximum humidity: 100%RH

## Product Specifications

Model No.	Dimension (HxWxD)		Effective Filtration Area (m <sup>2</sup> )	Flow Rate (m <sup>3</sup> /h)	Resistance (Pa)				
	(Inch)	(mm)			M6	F7	F8	H13	H14
IP* BCC	24x24x12	610x610x292	10	2500	45	70	95		
	12x24x12	305x610x292	5	1300	50	80	110		
IP* BCC	24x24x12	610x610x292	10	2450				250	275
	12x24x12	305x610x292	5	1125				250	275

1. Resistance tolerance is ±10%

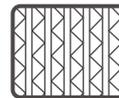
2. It can be customized according to requirements, please contact Feature-Tec's customer service or local dealers for details.



### Recommended installation method

① Filter element

② Installation base



## Order Code

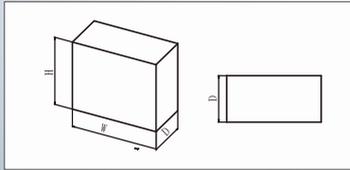
Type Code IP	Grade H13	Filter Media B	Outer Frame C	Seal C	Dimension (mm) HxWxD
IP- Partition filter	M6、 F7、 F8、 F9、 E10、 E11、 E12、 H13、 H14	B- Glass fibre	C - Galvanized sheet A - Aluminium sheet E - Stainless steel M- Wood board	C- Stick outside of wind side Y- Stick towards wind side S- Stick double-side of sealing strip	Refer to the above table

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# HP

## High Temperature Resistant Partition Filter



*HP high temperature resistant partition filter has large filtration area, low resistance and high efficiency. The lower pressure loss reduces energy consumption and saves operating costs.*

### Product Features

- Excellent performance, sturdy and durable
- Large dust holding capacity, long service life
- High temperature resistance

### Typical Applications

- Hot air filtration in high-temperature environments
- Filtration of tar, smoke, etc. from ovens in paint shops (No glue type)

### Materials

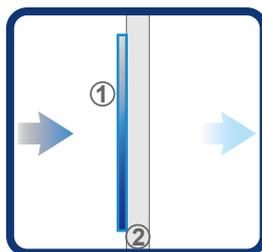
- Filter material: glass fibre
- Divider: aluminium foil
- Sealant: silica gel/ceramic glue, etc. (designed according to the customer's operating temperature)
- Frame: galvanized sheet/aluminium alloy/stainless steel.
- Conditions of use:  
HP1 ≤ 250 °C  
HP2 ≤ 350 °C,  
Maximum humidity: 100 %RH

### Product Specifications

Model No.	Dimension (HxWxD)		Effective Filtration Area (m <sup>2</sup> )	Flow Rate (m <sup>3</sup> /h)	Resistance (Pa)				
	(Inch)	(mm)			M6	F7	F8	H13	H14
HP1*BCCC	24x24x12	610x610x292	10	2500	45	70	95		
	12x24x12	305x610x292	5	1300	50	80	110		
HP1*BCCC	24x24x12	610x610x292	10	2450				250	275
	12x24x12	305x610x292	5	1125				250	275

1. Resistance tolerance is ±10%

2. It can be customized according to requirements, please contact Feature-Tec's customer service or local dealers for details.



#### Recommended installation method

- ① Filter element
- ② Installation base



### Order Code

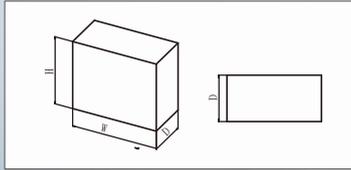
Type Code HP1	Grade H13	Filter Media B	Outer Frame C	Seal C	Mesh Plate C	Dimension (mm) HxWxD
HP1- ≤250 C	M6、 F7、	B- Glass fibre	C - galvanized sheet	C- Stick outside of wind side	C-Mesh on Outlet side	Refer to the above table
HP2- ≤350 C	F8、 F9、		A - Aluminium sheet	Y- Stick towards wind side	Y-Mesh on Inlet side	
	E10、 E11、		E - Stainless steel	S- Stick double-side of sealing	S-Mesh on both Inlet & Outlet side	
	E12、 H13、 H14				N- No Mesh Plate	

1. The brochure is for reference only, and the actual product shall prevail;

2. The company reserves the right of final interpretation.

# BH

## High Temperature Resistant Pleated Filter



*BH high temperature resistant pleated filter adopts excellent filter material for its low resistance, high dust holding capacity, easy installation and easy disassembly.*

### **Product Features**

- Excellent performance, sturdy and durable
- Large dust holding capacity, long service life
- High temperature resistance
- Lightweight structure, easy to handle and install

### **Typical Applications**

- Hot air filtration in high-temperature environments
- Filtration of tar, smoke, etc. from ovens in paint shops

### **Materials**

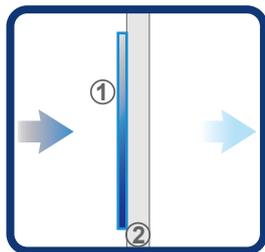
- Filter material: glass fibre
- Outer frame: stainless steel/galvanized sheet
- Sealing strip: glass fibre strip /temperature resistance silica gel
- Conditions of use:  
Maximum temperature: 400 °C  
Maximum humidity: 100%RH

## Product Specifications

Model No.	Dimension (HxWxD)		Initial Resistance (Pa)/ Air Volume (m <sup>3</sup> /h)		Suggested Initial Resistance
	(Inch)	(mm)			(Pa)
BHG3BCCS	20x20x2	480x480x45	30/1100	55/1450	180
BHG4BCCS	20x20x2	480x480x45	40/1100	65/1450	200

1. Resistance tolerance is  $\pm 10\%$

2. It can be customized according to requirements, please contact Feature-Tec's customer service or local dealers for details.



### Recommended installation method

- ① Filter element
- ② Installation base

## Order Code

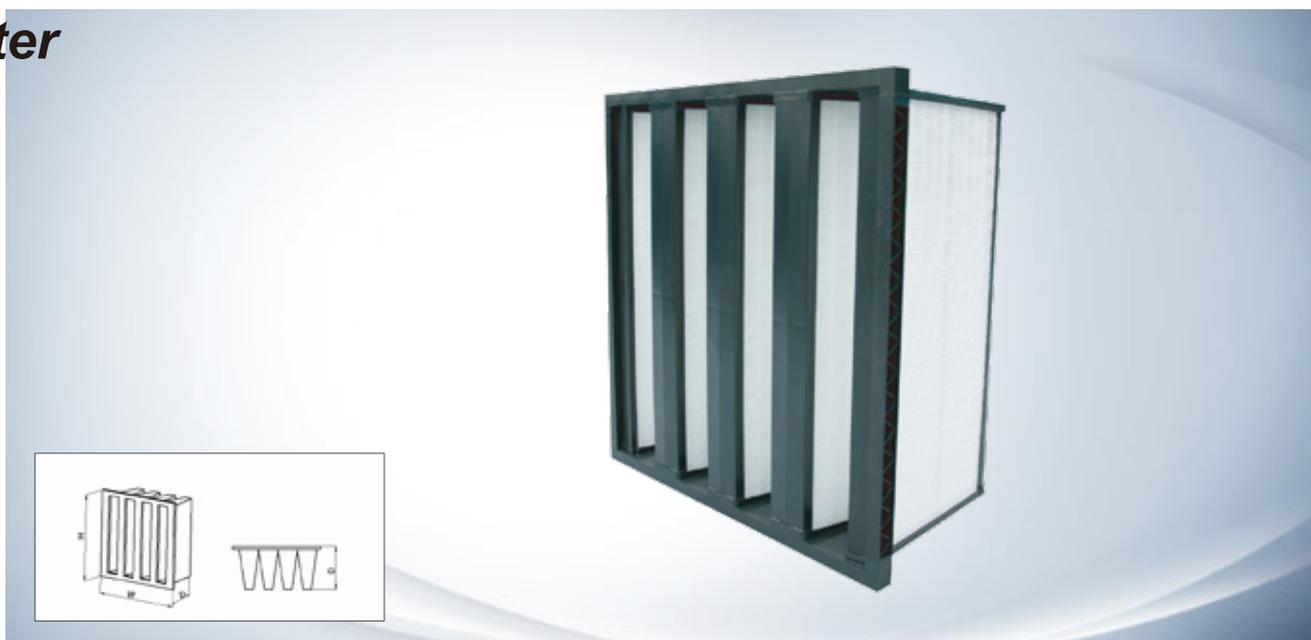
Type Code BH	Grade G3	Filter Media B	Outer Frame C	Seal C	Mesh Plate S	Dimension (mm) HxWxD
BH-High Temperature Resistant Pleated Filter	G3	B- Glass fibre	E - Stainless steel	C- Stick outside of wind side Y- Stick towards wind side S- Stick double-side of sealing X- NO sealing	S- Stick double-side of sealing	Refer to the above table
	G4		C - Galvanized sheet			

1. The brochure is for reference only, and the actual product shall prevail;

2. The company reserves the right of final interpretation.

# WP

## W Filter



*WP W filter consists of a V-shaped structure composed of multiple filter elements without partitions. Compared with conventional filter, it greatly increases the amount of filter material, reduces energy consumption by lower pressure loss, and saves operating costs. It is used in commercial HVAC systems, variable air volume systems, and also an ideal choice for environments with salt fog.*

### **Product Features**

- High dust holding capacity, long service life, no fibre falling phenomenon
- No metal solid plastic frame structure, V-shaped mini fold design
- The plastic frame is fully sealed with polyurethane glue to ensure no leakage

### **Typical Applications**

- Hospital
- Office building
- School
- Central air conditioning system of automobile industry
- Large air volume supply

### **Materials**

- Filter material: glass fibre/synthetic fibre
- Frame: plastic
- Partition: hot melt adhesive
- Sealant: polyurethane/hot melt adhesive
- Conditions of use:  
Maximum temperature: 60 °C  
Maximum humidity: 100%RH

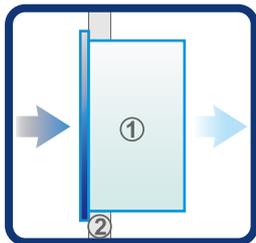
## Product Specifications

Model No.	Dimension (HxWxD)		V Number	Initial Resistance (Pa)/ Air Rolume (m <sup>3</sup> /h)		Effective Filtration Area (m <sup>2</sup> )	Suggested Initial Resistance (Pa)
	(Inch)	(mm)					
WP4VM6BPCC	12x24x12	287x592x295	4	45/1200	70/1700	7.5	300
	20x24x12	490x592x295	4	45/2000	70/2750	13.5	
	24x24x12	592x592x295	4	45/2500	70/3400	16.6	
WP4VF7BPCC	12x24x12	287x592x295	4	55/1200	85/1700	7.5	300
	20x24x12	490x592x295	4	55/2000	85/2750	13.5	
	24x24x12	592x592x295	4	55/2500	85/3400	16.6	
WP4VF8BPCC	12x24x12	287x592x295	4	75/1200	110/1700	7.5	400
	20x24x12	490x592x295	4	75/2000	110/2750	13.5	
	24x24x12	592x592x295	4	75/2500	110/3400	16.5	
WP4VF9BPCC	12x24x12	287x592x295	4	105/1200	150/1700	7.5	400
	20x24x12	490x592x295	4	105/2000	150/2750	13.5	
	24x24x12	592x592x295	4	105/2500	150/3400	16.5	

1. This data sheet is based on 4V filter.

2. Resistance tolerance is  $\pm 10\%$ .

3. It can be customized according to requirements, please contact Feature-Tec's customer service or local dealers for details.



### Recommended installation method

- ① Filter element
- ② Installation base

## Order Code

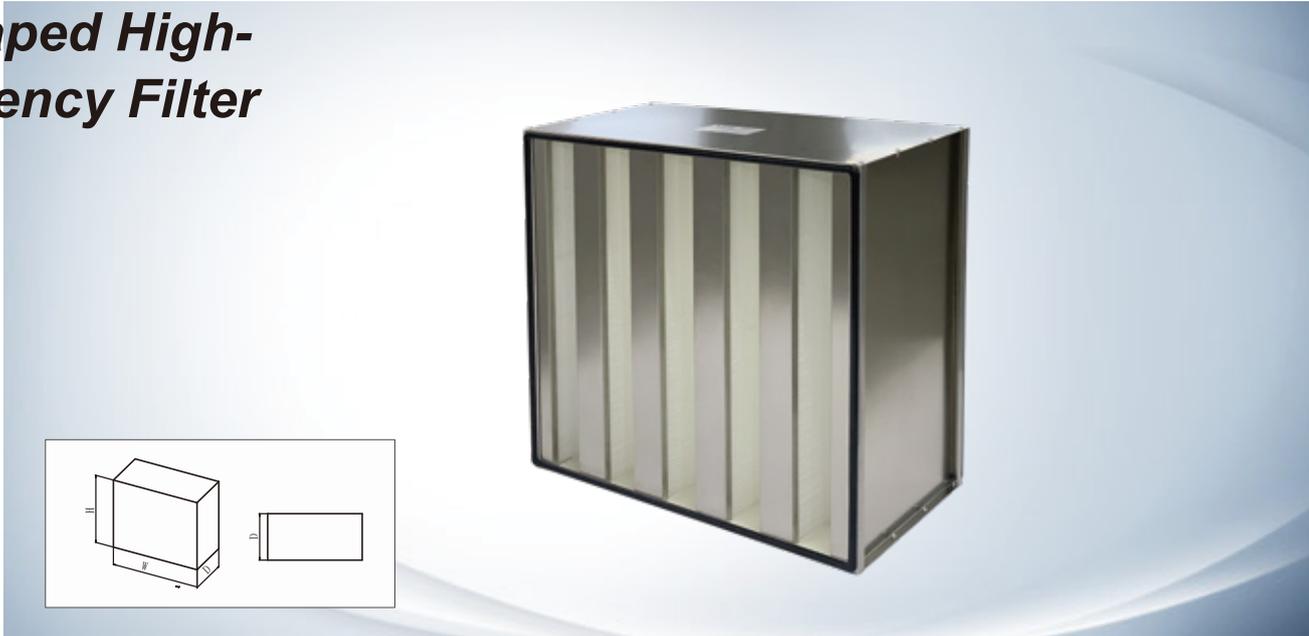
Type Code WP	V Number 3V	Grade M6	Filter Media B	Outer Frame P	Seal C	Mesh Plate C	Dimension (mm) HxWxD
WP-W Filter	3V 4V 5V 6V	M6、F7、 F8、F9、 E10、E11、 E12、H13、 H14	B - Glass Fibre H - Synthetic Fibre	P - Plastic	C - stick outside of wind side Y-stick towards wind side S-stick double-side of sealing strip	C - stick outside of wind side N - without screen	Refer to the above table

1. The brochure is for reference only, and the actual product shall prevail;

2. The company reserves the right of final interpretation.

# VP

## V-shaped High-Efficiency Filter



*VP V filter consists of a V-shaped structure composed of multiple filter elements without partitions. Compared with conventional filtration, it greatly increases the amount of filter material, reduces energy consumption by lower pressure loss, and saves operating costs. It is used in commercial HVAC systems, variable air volume systems, and also an ideal choice for environments with salt fog.*

### Product Features

- Good looking, sturdy and durable and strong ventilation
- Compact and reasonable structure, low resistance
- Large filtration area and high efficiency
- It occupies less space and large air volume

### Typical Applications

- Central air-conditioning and high-volume air supply systems
- Environments with higher levels of purification

### Materials

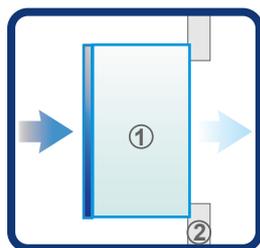
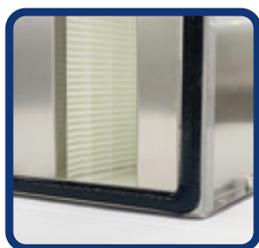
- Filter material: glass fibre
- Outer frame: galvanized sheet/aluminium alloy/stainless steel
- Separator: hot melt adhesive
- Sealant: polyurethane
- Use conditions: maximum temperature: 60 °C  
maximum humidity: 100%RH

## Product Specifications

Model No.	Dimension (HxWxD)		V Number	Initial Resistance (Pa)/ Air volume (m <sup>3</sup> /h)		Effective Filtration Area	Suggested Initial Resistance
	(Inch)	(mm)		(m <sup>2</sup> )	(Pa)		
VP2VE11BAC	24x12x12	610x305x292	2	140/1200	220/1700	15	450
VP4VE11BAC	12x24x12	305x610x292	4	140/1200	220/1700	15	
VP4VE11BAC	24x24x12	610x610x292	4	140/2500	220/3400	30	
VP5VE11BAC	24x24x12	610x610x292	5	115/2500	170/3400	38	
VP2VH13BAC	24x12x12	610x305x292	2	210/1200	275/1700	15	500
VP4VH13BAC	12x24x12	305x610x292	4	210/1200	275/1700	15	
VP4VH13BAC	24x24x12	610x610x292	4	210/2500	275/3400	30	
VP5VH13BAC	24x24x12	610x610x292	5	175/2500	250/3400	38	

1. Resistance tolerance is  $\pm 10\%$

2. It can be customized according to requirements, please contact Feature-Tec's customer service or local dealers for details.



### Recommended installation method

- ① Filter element
- ② Installation base

## Order Code

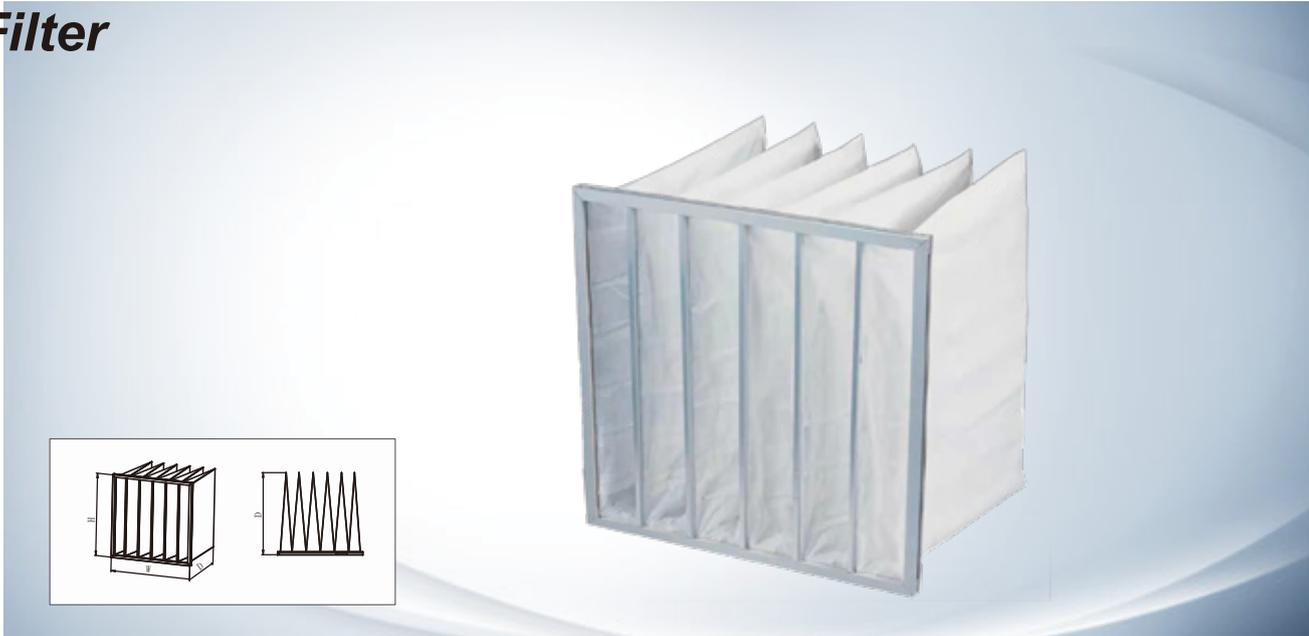
Type Code VP	V Number 2V	Grade E11	Filter Media B	Outer Frame A	Seal C	Dimension (mm) HxWxD
VP – V-Shaped High-Efficiency Filter	2V	M6, F7, F8, F9,	B - Glass	C - galvanized	C – stick	Kindly refer above table for size details
	4V	E10, E11, E12,	Fibre	sheet	outside of wind	
	5V	H13, H14, U15,		A - aluminium	side	
	6V	U16		sheet E - stainless steel	Y-stick towards wind side S-stick dou- ble-side of sealing strip	

1. The brochure is for reference only, and the actual product shall prevail;

2. The company reserves the right of final interpretation.

# MB

## Bag Filter



*MB bag filter has stable structure and reliable performance. It is widely used in various industrial, commercial and civil building ventilation systems.*

### **Product Features**

- High dust holding capacity, long service life and low operating cost
- Good looking, strong and durable
- Large effective filtration area, large air volume and low resistance

### **Typical Applications**

- Main filters for commercial buildings and industrial ventilation and air-conditioning systems
- Centralized air supply systems for pharmaceutical factories, operating rooms, electronic industries, and automotive painting

### **Materials**

- Frame thickness: 21mm
- Maximum temperature: PP-60℃ PET-100℃
- Maximum humidity: 100%RH

## Product Specifications

Model No.	Dimension (HxWxD)		Number of Bags	Initial Resistance (Pa)/ Air Volume (m <sup>3</sup> /h)		Effective Filtration Area (m <sup>2</sup> )	Suggested Initial Resistance (Pa)
	(Inch)	(mm)					
MB*G3HCCN	24x24x24	592x592x600	6	16/3000	20/3400	4.2	250
	24x12x24	592x287x600	3	16/1500	20/1700	2.1	
	24x24x20	592x592x530	6	27/3000	32/3400	3.6	
	24x12x20	592x287x530	3	27/1500	32/1700	1.8	
	24x24x14	592x592x350	6	32/3000	38/3400	2.3	
	24x12x14	592x287x350	3	32/1500	38/1700	1.2	
MB*G4HCCN	24x12x24	592x592x600	8	26/3000	30/3400	5.6	250
	24x12x24	592x592x600	6	30/3000	34/3400	4.2	
	24x12x24	592x287x600	4	26/1500	30/1700	2.8	
	24x24x20	592x592x530	8	30/3000	35/3400	4.8	
	24x24x20	592x592x530	6	31/3000	37/3400	3.6	
	24x12x20	592x287x530	4	30/1500	35/1700	2.4	
	24x12x14	592x592x350	6	34/3000	42/3400	2.3	
	24x12x14	592x287x350	3	34/1500	42/1700	1.2	
MB*M5HCCN	24x24x24	592x592x600	8	30/3000	35/3400	5.6	300
	24x24x24	592x592x600	6	32/3000	38/3400	4.2	
	24x12x24	592x287x600	4	30/1500	35/1700	2.8	
	24x24x20	592x592x530	8	40/3000	45/3400	4.8	
	24x24x20	592x592x530	6	42/3000	48/3400	3.6	
	24x12x20	592x287x530	4	40/1500	45/1700	2.4	
MB*M6HCCN	24x24x24	592x592x600	8	48/3000	60/3400	5.6	400
	24x24x24	592x592x600	6	58/3000	75/3400	4.2	
	24x12x24	592x287x600	4	48/1500	60/1700	2.8	
	24x24x20	592x592x530	8	55/3000	70/3400	4.8	
	24x24x20	592x592x530	6	65/3000	85/3400	3.6	
	24x12x24	592x287x530	4	55/1500	70/1700	2.4	
MB*F7HCCN	24x24x24	592x592x600	8	85/3000	100/3400	5.6	400
	24x24x24	592x592x600	6	105/3000	125/3400	4.2	
	24x12x24	592x287x600	4	85/1500	100/1700	2.8	
	24x24x20	592x592x530	8	100/3000	115/3400	4.8	
	24x24x20	592x592x530	6	115/3000	130/3400	3.6	
	24x12x20	592x287x530	4	100/1500	115/1700	2.4	
MB*F8HCCN	24x24x24	592x592x600	8	100/3000	116/3400	5.6	450
	24x12x24	592x287x600	4	100/1500	116/1700	3.4	
	24x24x20	592x592x510	8	112/3000	125/3400	6	
	24x12x20	592x287x510	4	112/1500	125/1700	3	
MB*F9HCCN	24x24x24	592x592x600	8	105/3000	126/3400	8.4	450
	24x12x24	592x287x600	5	105/1500	126/1700	4.2	
	24x24x20	592x592x510	10	126/3000	145/3400	7	
	24x12x20	592x287x510	5	126/1500	145/1700	3.5	

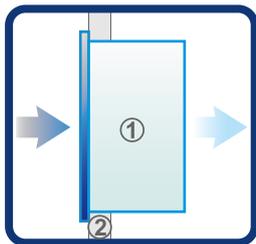
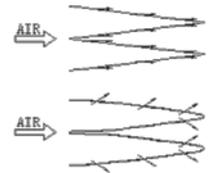
1. Resistance tolerance is  $\pm 10\%$

2. It can be customized according to requirements, please contact Feature-Tec's customer service or local dealers for details.

### Structure Description:

The filter material is made of high-quality ultra-fine melt-blown synthetic fibre and supplemented by strong explosion-proof welds. It is assembled into metal frame or plastic injection frame to form a bag filter. When the system is suddenly ventilated or air flow is suspended, the strong structure of filter bag can prevent secondary dust generation thus preventing the filter layer from falling off during the use of filter bag. Thereby, it avoids the degradation of filtration performance and improves filtration efficiency. The edge seam of filter bag is welded with high frequency and it does not contain glue. The filter material fibre will not break, which greatly improves the overall performance of filter bag.

The thin pneumatic dividing bag can stabilize air flow to the greatest extent and ensures the effective use of filter medium. It has advanced airflow structure design. The standard V-shaped structure ensures that every corner of filter material is fully utilized to ensure the best filtration efficiency and lowest resistance. In general filter bag design, the filter material will expand to the right as shown in the figure. It produces uneven flow wind, which will cause high pressure loss and shorten the life.



#### Recommended installation method

- ① Filter element
- ② Installation base

### Order Code

Type Code MB	Bags Number P5	Grade F8	Filter Media H	Outer Frame A	Seal C	Flame retardancy Y	Dimension (mm) HxWxD
MB-Bag Filter	Kindly refer above table for number of bags details	G3、G4、M5、M6、F7、F8、F9	H-Synthetic Fibre B-Glass Fiber	C - galvanized sheet A - aluminium sheet E - stainless steel P- Plastic	C-Mesh on outlet side	Y - Flame retardant N - Non-flame retardant	Refer to the above table

1. The brochure is for reference only, and the actual product shall prevail;
2. The company reserves the right of final interpretation.

# GT

## Commercial Air Purifier



GT commercial air purifier is one of the most efficient purification systems for oil mist, VOC and particulate matter in the world. The integrated filter system structure can be composed of different filter elements according to the requirements and also can be connected to single or multiple machine tools. It has high precision of separation efficiency and good maintenance-free. It is also more durable, efficient and cost-saving.

### **Product Features**

- Clean air 0.005mg/NM<sup>3</sup> PM2.55
- Aerosol filtration efficiency 99.97%
- Filtration accuracy - 0.3µm
- According to the actual requirements of the environment, add activated carbon, adsorbent, condensation and other functions.
- The system can be customized accordingly, which can be in combined or independent form

### **Intelligent network for best performance**

- Communicate with advanced control systems (WAGO, logo, Siemens, etc.)
- Select external or local boot
- Database connection

### **It is easy to operate and monitor. Un-trained personnel also can operate**

- Visual display will indicate whether system is normal/alarm
- The fault information is transmitted to the storage number via SMS
- Differential pressure monitoring (5 filter levels)
- It supports Web server (online monitoring).
- Option: GT remote control
- Multi-language menu navigation

### **Increased efficiency through optimal operating parameters**

- It is based on demand-oriented to control ventilation device' s drive motor (with pressure monitoring)
- The load of the filter represented in graph form, which can be replaced on-time accordingly.

### **Optimal maintenance time, pre-reminder function**

- Comprehensive working hours counter
- It shows the next maintenance due date

## Product Specifications

L Light Pollution	GT 5L	GT 10L	GT 20L	GT 20L-C	GT 40L	GT 80L
Flow Rate m <sup>3</sup> /h	<b>500 m<sup>3</sup>/h</b>	<b>1000 m<sup>3</sup>/h</b>	<b>2000 m<sup>3</sup>/h</b>	<b>2000 m<sup>3</sup>/h</b>	<b>4000 m<sup>3</sup>/h</b>	<b>8000 m<sup>3</sup>/h</b>
Maximum Power kW	0.36	0.6	1.2	1.2	2.5	5
Drive Device Type	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Inverter Is Optional
Power Supply V   HZ Phase	208/240   50/60   1	200/277   50/60   1	380/480   50/60   3	380/480   50/60   3	380/480   50/60   3	400/460   50/60   3
L x W x H mm	451 x 821 x 1062	750 x 1338 x 827	699 x 854 x 1910	765 x 1106 x 104	1374 x 857 x 2283	1421 x 1689 x 2771
Weight kg	85	170	202	180	355	759
Total Filtration Area m <sup>2</sup> (min/max)*	11.5/13.2	25.2/42.3	31.2/61.5	25.2/42.3	62.4/108	124.8 /216
1. Filter Segment m <sup>2</sup>	6.4	11.7	14.3	6	28.6	57.2
2. Filter Segment m <sup>2</sup>	6.8	20.1	11.7	20.1	23.4	46.8
3. Filter Segment m <sup>2</sup>	n.a.	n.a.	20.1	n.a.	40.2	80.4
4. Filter Segment m <sup>2</sup>	n.a.	n.a.	optional	n.a.	n.a.	n.a.
5. Filter Segment m <sup>2</sup>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Gas Inlet and Outlet NW (mm)	125	160	200	200	315	400
ø Oil Outlet	R1 1/4	R1 1/4	R1 1/4	R1 1/4	R1 1/4	R1 1/4
ø Oil Return Pump	n.a.	n.a.	n.a.	n.a.	n.a.	G3/4

L Light Pollution	GT 80L-C	GT 120 L	GT 160 L	GT 240 L	GT 280 L	GT 320 L
Flow Rate m <sup>3</sup> /h	<b>8000 m<sup>3</sup>/h</b>	<b>12000 m<sup>3</sup>/h</b>	<b>16000 m<sup>3</sup>/h</b>	<b>24000 m<sup>3</sup>/h</b>	<b>28000 m<sup>3</sup>/h</b>	<b>32000 m<sup>3</sup>/h</b>
Maximum Power kW	5	7.5	10	15	20	24
Drive Device Type	-	As Per Request*				
Power Supply V   HZ	-	As Per Request*				
L x W x H mm	1374 x 1165 x 1465	1427 x 2638 x 2621 1427 x 2638 x 2984	1427 x 3510 x 2845 1427 x 3510 x 3384	1428 x 5019 x 2905 1428 x 5019 x 3556	1428 x 5834 x 3005 1428 x 5834 x 3657	1428 x 6649 x 3088 1428 x 6649 x 3717
Weight kg	350	1250 1250	1700 1700	2600 2550	3200 3300	3500 3600
Total Filtration Area m <sup>2</sup> (min/max)*	20.4/112	187.2/324	249.6/432	374.4/648	436.8/756	499.2/864
1. Filter Segment m <sup>2</sup>	46.8	85.8	114.4	171.6	200.2	228.8
2. Filter Segment m <sup>2</sup>	n.a.	70.2	93.6	140.4	163.8	187.2
3. Filter Segment m <sup>2</sup>	n.a.	120.6	160.8	241.2	281.4	321.6
4. Filter Segment m <sup>2</sup>	n.a.	-	-	-	-	-
5. Filter Segment m <sup>2</sup>	n.a.	-	-	-	-	-
Gas Inlet and Outlet NW	400	500/630	630/800	710/900	800/900	900
ø Oil Outlet	R1 1/4	R1 1/4	R1 1/4	R1 1/4	R1 1/4	R1 1/4
ø Oil Return Pump	n.a.	G3/4	G3/4	G3/4	G3/4	n.a.

\*It depends on application conditions.

## Product Specifications

H Heavy Pollution	GT 5H	GT 5H slim	GT 10H	GT 20H	GT 20 H up	GT 20 H top
Flow Rate m <sup>3</sup> /h	500 m <sup>3</sup> /h	500 m <sup>3</sup> /h	1000 m <sup>3</sup> /h	2000 m <sup>3</sup> /h	2000 m <sup>3</sup> /h	2000 m <sup>3</sup> /h
Maximum Power kW	0.5	0.5	1.2	2.5	2.5	2.5
Drive Device Type	Adjustable	Adjustable	Adjustable	Inverter Is Optional	Adjustable	Adjustable
Power Supply V	208/240   50/60   1	208/240   50/60   1	208/240   50/60   1	400/460   50/60   3	380/480   50/60   3	380/480   50/60   3
HZ Phase L x W x H mm	809 x 697 x 970	787 x 592 x 1167	720 x 1038 x 1077	819 x 883 x 2468	869 x 968 x 2528	927 x 1019 x 2711
Weight kg	109	109	200	300	350	400
Total Filtration Area m <sup>2</sup> (min/max)*	11.9/13.8	11.9/13.8	17.7/29.4	40.5/ 60.3	40.5/ 60.3	40.5/ 60.3
1. Filter Segment m <sup>2</sup>	2.5	2.5	4.2	11.4	11.4	11.4
2. Filter Segment m <sup>2</sup>	2.3	2.3	4.6	13.6	13.6	13.6
3. Filter Segment m <sup>2</sup>	2.3	2.3	4.6	20.1	20.1	20.1
4. Filter Segment m <sup>2</sup>	6.1	6.1	11	Optional	Optional	Optional
5. Filter Segment m <sup>2</sup>	n.a.	n.a.	Optional	n.a.	n.a.	n.a.
Gas Inlet and Outlet NW (mm)	125	125	160	200	200	200
∅ Oil Outlet	R1 1/4	R1 1/4	R1 1/4	R1 1/4	R1 1/4	R1 1/4
∅ Oil Return Pump	n.a.	n.a.	n.a.	n.a.	G3/4	G3/4

H Heavy Pollution	GT 40H	GT 80H	GT 120H	GT 160H	GT 240H	GT 320H
Flow Rate m <sup>3</sup> /h	4000 m <sup>3</sup> /h	8000 m <sup>3</sup> /h	12000 m <sup>3</sup> /h	16000 m <sup>3</sup> /h	24000 m <sup>3</sup> /h	32000 m <sup>3</sup> /h
Maximum Power kW	5	10	15	20	30	40
Drive Device Type	Inverter is Optiona	Adjustable	As Per Request*	As Per Request*	As Per Request*	As Per Request*
Power Supply V   HZ	400/460   50/60   3	400/460   50/60   3	As Per Request*	As Per Request*	As Per Request*	As Per Request*
L x W x H mm	1178 x 1278 x 3480	2202 x 1368 x 3995	1186 x 3681 x 3269 1186 x 3681 x 3758	2238 x 2617 x 3438 2238 x 2617 x 3947	2238 x 3682 x 3684 2238 x 3682 x 4317	2238 x 4866 x 3784 2238 x 4866 x 3996
Weight kg	930	1750	2500 2550	2750 2950	4600 4650	6100 6100
Total Filtration Area m <sup>2</sup> (min/max)*	102.2/145.7	204.4/291.4	306.6/437.1	408.8/582.8	613.2/874.2	817.6/1165.6
1. Filter Segment m <sup>2</sup>	24	48	72	96	144	192
2. Filter Segment m <sup>2</sup>	26	52	78	104	156	208
3. Filter Segment m <sup>2</sup>	54.7	109.4	164.1	218.8	328.2	437.6
4. Filter Segment m <sup>2</sup>	Optional	n.a.	n.a.	n.a.	n.a.	Optional
5. Filter Segment m <sup>2</sup>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Gas Inlet and Outlet NW (mm)	315	400	500/700	630/800	800/900	900/900
∅ Oil Outlet	G1 1/4	G1 1/4	R1 1/4	R1 1/4	R1 1/4	R1 1/4
∅ Oil Return Pump	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4

\*It depends on application conditions.

## Order Code

Model No. GT	Flow Rate 005	Process Condition L	Function* V
GT-Commercial Air Purifier	005-500m <sup>3</sup> /h	L – Light Pollution	V- VOC
	010-1000m <sup>3</sup> /h	H – Heavy Pollution	O – Oil Mist
	020-2000m <sup>3</sup> /h		D - Dust
	040-4000m <sup>3</sup> /h		
	080-8000m <sup>3</sup> /h		
	120-12000m <sup>3</sup> /h		
	240-24000m <sup>3</sup> /h		
	280-28000m <sup>3</sup> /h		
	320-32000m <sup>3</sup> /h		

\* Based on the requirements, it can be used in any combination form.

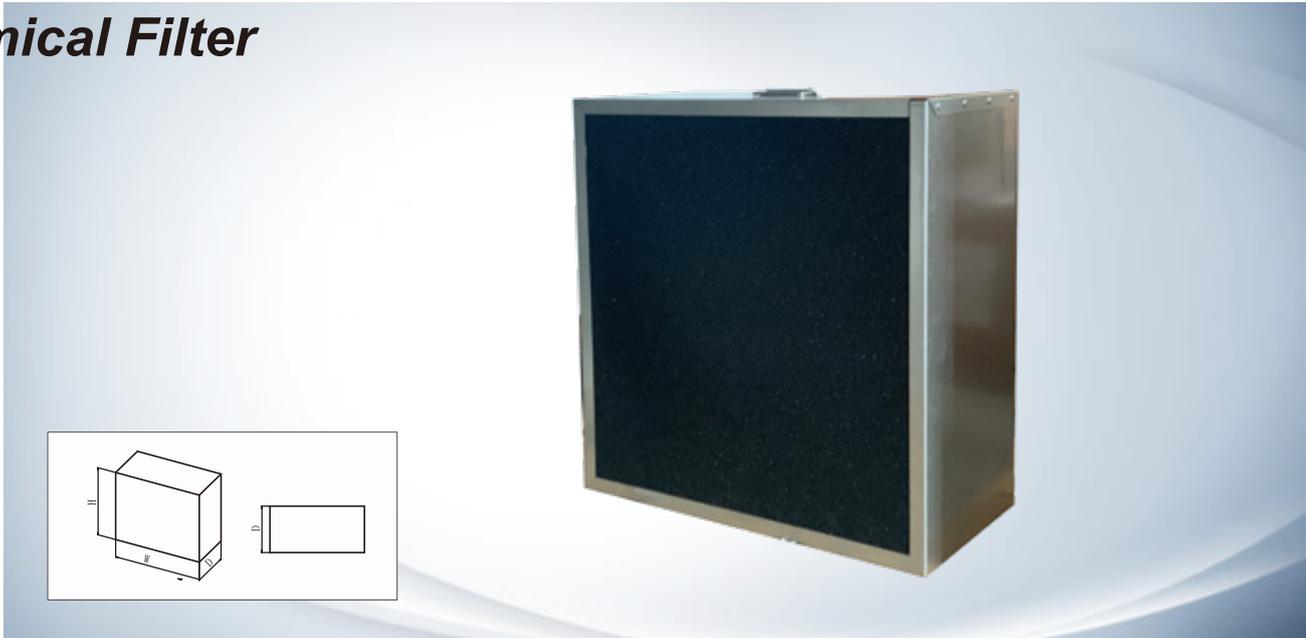
## Principle of the Function



1. The brochure is for reference only, and the actual product shall prevail;
2. The company reserves the right of final interpretation.

# CT

## Chemical Filter



CT Chemical filter adopts the composite material of activated carbon particles and ultra-fine synthetic fibres. It effectively removes gas molecules and dust pollution in the air thus improving air quality. It is an ideal choice for high-end health commercial air-conditioning systems. It is also suitable for semiconductor, microelectronics manufacturing companies, museums, archives, libraries, airports, hospitals (such as wards for patients with respiratory diseases), office buildings (air filtration in public places) and so on.

### Product Features

- Class A: It absorbs acidic gas (SO<sub>2</sub>, NO<sub>2</sub>, H<sub>2</sub>S, HCL, HF, etc.)  
Class B: It absorbs hot gas (NH<sub>3</sub>, etc.)  
Class C: It absorbs VOC
- Large filtration area, strong adsorption capacity, high removal efficiency and reliable performance
- Easy installation and maintenance, light weight

### Performance

- Type: Chemical filter
- Dust filtration efficiency: M5-F9 (optional)
- Frame material: aluminium / galvanized steel / stainless steel / ABS
- Sealant: self-extinguishing material
- Filter media: special impregnated activated carbon, cation exchanger, media is tested through International Professional Safety Standard and MSDS is provided, different gas media can be combined to form multiple layers of configuration
- Continuous stable operating temperature  
Conventional models ≤ 70 °C  
High temperature models ≤ 140 °C
- Maximum operating humidity ≤ 70%RH

■ *CT Chemical Filter*

**Performance Parameter**

Removal Category	Model	Adsorption Efficiency	Adsorption Capacity	Removal Gas Type
<b>Acidic Gas</b>	A1	95%	30%	NOx (nitrogen oxides)
	A2	98%	50%	HCl (hydrogen chloride), H2SO4 (sulfuric acid), HF (hydrofluoric acid) and others
<b>Alkali Gas</b>	B1	98%	10%	NH3 (ammonia)
<b>VOC</b>	C1	95%	25%	Formaldehyde, toluene, xylene and other VOC
	C2	90%	35%	Formaldehyde, toluene, xylene and other VOC
	C3	90%	15%	Toluene, Xylene and other VOCs

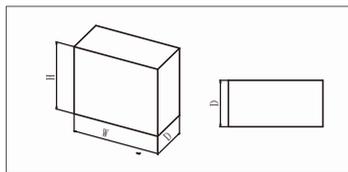
**Order Code**

Type Code CT	Corresponding GT Model/Removal Category 316.0024927
CT-Chemical Filter	316.0024927-GT20H-A1
	316.0024943-GT20H-A2
	316.0024948-GT10H-A1
	316.0024949-GT10H-A2
	316.0024957-GT5H-A1
	316.0024958-GT5H-A2
	316.0024928-GT20H-B1
	316.0024950-GT10H-B1
	316.0024959-GT5H-B1
	316.0024926-GT20H-C1
	316.0024941-GT20H-C2
	316.0024942-GT20H-C3
	316.0024945-GT10H-C1
	316.0024946-GT10H-C2
	316.0024947-GT10H-C3
	316.0024954-GT5H-C1
316.0024955-GT5H-C2	
316.0024956-GT5H-C3	

1. Please refer to the "Performance Parameter" Table for the removal categories.
2. It can be customized according to the requirements, please contact Feature-Tec's customer service or local dealers for details.
3. The sample book is for reference only, and the actual product shall prevail.
4. The company reserves the right of final explanation.

# CC

## Oil Mist Coalescing Filter



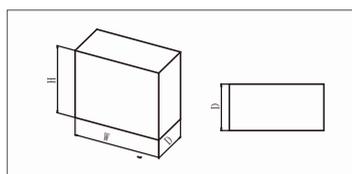
### Order Code

Type Code CC	Corresponding GT Model 316.0024929
CC--Coalescing Oil Removal Filter	316.0024929-GT20H 316.0024951-GT10H 316.0024960-GT5H

1. It can be customized according to the requirements, please contact Feature-Tec's customer service or local dealers for details.
2. The sample book is for reference only, and the actual product shall prevail.
3. The company reserves the right of final explanation.

# CA

## Particulate Removal Filter



### Order Code

Type Code CA	Corresponding GT Model/Removal Category 316.0024930
CA-Particulate Removal Filter	316.0024930-GT20H-H13
	316.0024944-GT20H-H14
	316.0024952-GT10H-H13
	316.0024953-GT10H-H14
	316.0024961-GT5H-H13
	316.0024962-GT5H-H14

1. It can be customized according to the requirements, please contact Feature-Tec's customer service or local dealers for details.
2. The sample book is for reference only, and the actual product shall prevail.
3. The company reserves the right of final explanation.

# LOUVER

## Rain-Proof Louver



*FTWRL-101 is a new type of rain-proof louver, which is used to protect the air intake and exhaust on the outer wall of the building, and prevent water from entering. The product has passed British BSRIA inspection and reliable quality.*

### Product Features

- Horizontal blades are tightly distributed horizontal, which minimize the penetration of water from storm.
- According to EN13030-2001 test, the blades have excellent rainproof performance.
- The blades adopt a double-layer profile snap-in structure, which is easy to install.
- Single-layer, double-layer and multi-layer structure, the highest rainproof efficiency up to 99.5%, meeting AMCA500-L requirements,
- Independently designed and manufactured pneumatic test platform\*, and passed CNS certification with AMCA 500-L standards

### Standard Structure

#### Frame material

6063-T5 extruded aluminium, 2.5mm thick(0.098")

#### Blade

6063-T5 extruded aluminium, 1.5mm thick(0.059")

#### Structure

Mechanical Fixation

#### Smallest Size

350x350mm (13-3/4" x 13-3/4")

#### Biggest Size

2500x2500mm (98-3/8" x 98-3/8")

### Option (Additional)

- Various anti-bird and insect-proof nets
- Stainless steel angle buckle
- Filter frame
- Flange frame
- Safety barrier

### Rainproof Performance and Exhaust Loss

The table shows different classifications based on the maximum permeability of simulated rainwater per square meter (square foot) of the louver. When the louver are affected by the selected simulated rainfall rate and wind speed, the surface speed of louver is determined by the water permeability.

75mm / h (3 in./hr) Rain & 13 m / s (29 mph) Wind Speed						202mm / h (3 in./hr) Rain & 22 m / s (50 mph) Wind Speed					
Free surface		Ventilation air speed		Permeability		Free surface		Ventilation air speed		Permeability	
( fpm )	( m / s )	( fpm )	( m / s )	Grade	Effective Resistance	( fpm )	( m / s )	( fpm )	( m / s )	Grade	Effective Resistance
						788	4.0	498	2.5	A	99.1%
935	4.7	591	3.0	A	99.7%	900	4.6	569	2.9	A	99.2%
1090	5.5	689	3.5	A	99.4%	1081	5.5	683	3.5	A	99.2%
1228	6.2	776	3.9	A	99.1%	1237	6.3	782	4.0	B	98.9%
1358	6.9	858	4.4	B	98.7%	1372	7.0	867	4.4	B	98.1%
1541	7.8	974	4.9	B	97.9%	1527	7.8	965	4.9	C	94.4%

### Wind and Rain Penetration Level

Grade	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below than 0.80

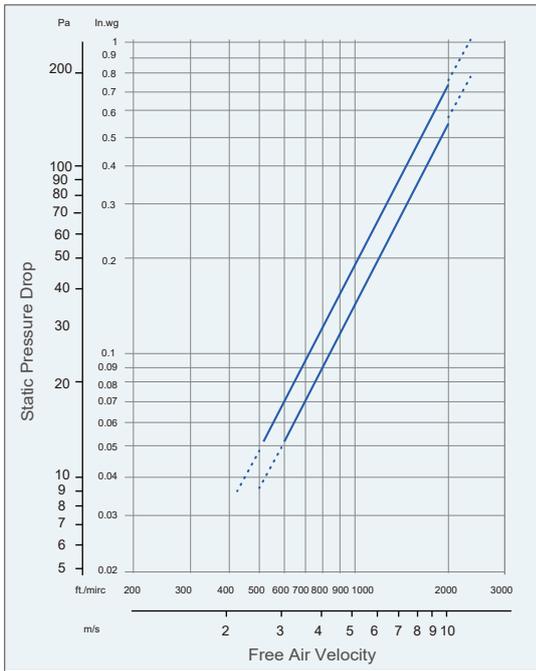
### Exhaust Loss Coefficient

Grade	Exhaust Loss Coefficient
1	0.4 and Above
2	0.3 to 0.399
3	0.2 to 0.299
4	Below than 0.199

### Effective Ventilation Area

louver height (mm)	louver width(mm)																							
	350	450	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	
350	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28	
450	0.05	0.07	0.08	0.09	0.10	0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	0.25	0.26	0.28	0.29	0.31	0.32	0.34	0.35	0.37	
500	0.06	0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.18	0.19	0.21	0.23	0.24	0.26	0.28	0.29	0.31	0.32	0.34	0.36	0.37	0.39	0.41	
600	0.07	0.09	0.11	0.12	0.14	0.16	0.18	0.20	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.35	0.37	0.39	0.41	0.43	0.45	0.47	0.49	
700	0.08	0.10	0.13	0.14	0.16	0.18	0.20	0.23	0.25	0.27	0.30	0.32	0.34	0.36	0.39	0.41	0.43	0.46	0.48	0.50	0.52	0.55	0.57	
800	0.09	0.12	0.14	0.16	0.18	0.21	0.23	0.26	0.29	0.31	0.34	0.36	0.39	0.42	0.44	0.47	0.49	0.52	0.55	0.57	0.60	0.62	0.65	
900	0.10	0.13	0.16	0.18	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.47	0.50	0.53	0.56	0.59	0.61	0.64	0.67	0.70	0.73	
1000	0.11	0.15	0.18	0.20	0.23	0.26	0.29	0.33	0.36	0.39	0.42	0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.72	0.75	0.78	0.81	
1100	0.13	0.16	0.20	0.21	0.25	0.29	0.32	0.36	0.39	0.43	0.46	0.50	0.54	0.57	0.61	0.64	0.68	0.72	0.75	0.79	0.82	0.86	0.89	
1200	0.14	0.18	0.21	0.23	0.27	0.31	0.35	0.39	0.43	0.47	0.51	0.55	0.59	0.62	0.66	0.70	0.74	0.78	0.82	0.86	0.90	0.94	0.98	
1300	0.15	0.19	0.23	0.25	0.30	0.34	0.38	0.42	0.46	0.51	0.55	0.59	0.63	0.68	0.72	0.76	0.80	0.85	0.89	0.93	0.97	1.01	1.06	
1400	0.16	0.20	0.25	0.27	0.32	0.36	0.41	0.46	0.50	0.55	0.59	0.64	0.68	0.73	0.77	0.82	0.86	0.91	0.96	1.00	1.05	1.09	1.14	
1500	0.17	0.22	0.27	0.29	0.34	0.39	0.44	0.49	0.54	0.59	0.63	0.68	0.73	0.78	0.83	0.88	0.93	0.98	1.02	1.07	1.12	1.17	1.22	
1600	0.18	0.23	0.29	0.31	0.36	0.42	0.47	0.52	0.57	0.62	0.68	0.73	0.78	0.83	0.88	0.94	0.99	1.04	1.09	1.14	1.20	1.25	1.30	
1700	0.19	0.25	0.30	0.33	0.39	0.44	0.50	0.55	0.61	0.66	0.72	0.77	0.83	0.88	0.94	0.99	1.05	1.11	1.16	1.22	1.27	1.33	1.38	
1800	0.20	0.26	0.32	0.35	0.41	0.47	0.53	0.59	0.64	0.70	0.76	0.82	0.88	0.94	0.99	1.05	1.11	1.17	1.23	1.29	1.35	1.40	1.46	
1900	0.22	0.28	0.34	0.37	0.43	0.49	0.56	0.62	0.68	0.74	0.80	0.86	0.93	0.99	1.05	1.11	1.17	1.24	1.30	1.36	1.42	1.48	1.54	
2000	0.23	0.29	0.36	0.39	0.46	0.52	0.59	0.65	0.72	0.78	0.85	0.91	0.98	1.04	1.11	1.17	1.24	1.30	1.37	1.43	1.50	1.56	1.63	
2100	0.24	0.31	0.38	0.41	0.48	0.55	0.61	0.68	0.75	0.82	0.89	0.96	1.02	1.09	1.16	1.23	1.30	1.37	1.43	1.50	1.57	1.64	1.71	
2200	0.25	0.32	0.39	0.43	0.50	0.57	0.64	0.72	0.79	0.86	0.93	1.00	1.07	1.14	1.22	1.29	1.36	1.43	1.50	1.57	1.64	1.72	1.79	
2300	0.26	0.34	0.41	0.45	0.52	0.60	0.67	0.75	0.82	0.90	0.97	1.05	1.12	1.20	1.27	1.35	1.42	1.50	1.57	1.64	1.72	1.79	1.87	
2400	0.27	0.35	0.43	0.47	0.55	0.62	0.70	0.78	0.86	0.94	1.01	1.09	1.17	1.25	1.33	1.40	1.48	1.56	1.64	1.72	1.79	1.87	1.95	
2500	0.28	0.37	0.45	0.49	0.57	0.65	0.73	0.81	0.89	0.98	1.06	1.14	1.22	1.30	1.38	1.46	1.54	1.63	1.71	1.79	1.87	1.95	2.03	

### Pressure Drop Table



Test Area: 48inx48in  
Standard Air: 0.75lb/ft

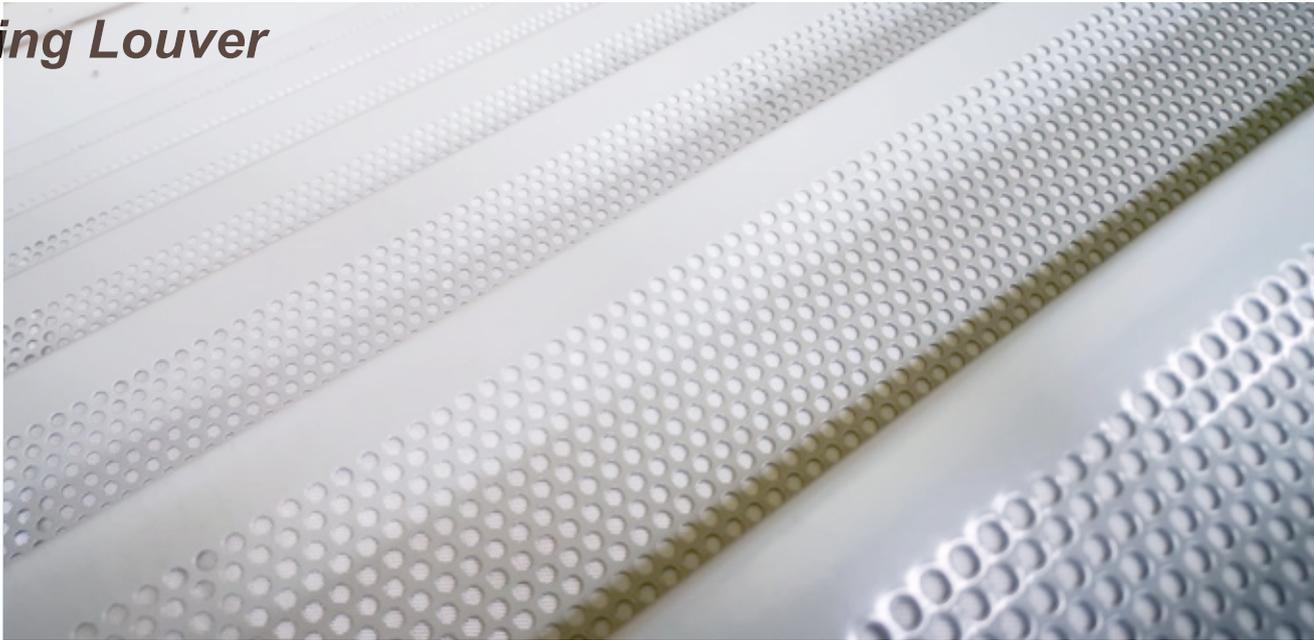
### Order Information

Formation Code WRL	Wind and Rain Penetration Level - A	Length x Width x Thickness
WRL - Rain-Proof Louver	A – 1 to 0.99 B – 0.989 to 0.95 C – 0.949 to 0.80 D – Below than 0.80	Customized Made As Per Customer Request

1. The sample book is for reference only, and the actual product shall prevail.
2. The company reserves the right of final explanation.

# LOUVER

## Muffling Louver



FTACL-101 muffling louver adopts modular design and offers a variety of model sizes and exterior finishes to select, which makes it suitable for all industrial and commercial engineering projects that require ventilation and noise reduction. Generally, the best way for noise to enter the surrounding area is through ventilation ducts. Muffling louvers can effectively reduce noise transmission without hindering the operation of the ventilation system.

### Product Application

- Air compressors or engines in commercial rooms and industrial plants, as well as ventilation and air conditioning systems
- Factory workshop ventilation and cooling tower air inlets
- Compressor rooms, power stations, substations
- Exhaust area, diesel unit area
- Car park, air conditioners unit
- Natural ventilation area, air inlet of condensing unit
- Air inlet and outlet windows of equipment room
- Ventilation and heat dissipation windows of the sound insulation cover of equipment, local vents of sound insulation barriers, etc.

### Standard Structure

#### Frame material

6063-T5 extruded aluminium, nominal wall thickness 3mm blade

#### Blade

6063-T5 extruded aluminium, nominal wall thickness 1.5mm

#### Acoustic material

Glass fibre, rock wool, silent cotton

#### Connecting rod (optional)

Welding, Riveting

#### Anti-bird net

Stainless steel wire mesh 8\*8 and 10\*10

#### Surface treatment

Anodizing, Spraying

#### Smallest size

300mm(width)\*300mm (height)\*100mm(deep)

#### Biggest size

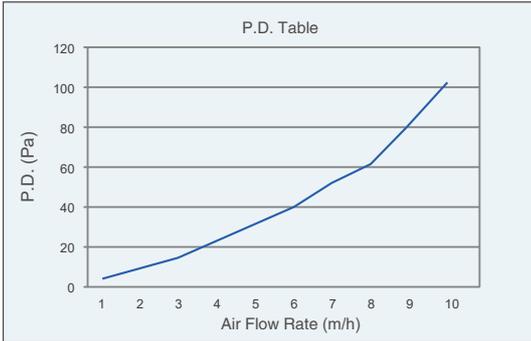
2000mm(width)\*2000mm (height)\*1000mm(deep)

### Transmission of Muffling Sound Data

<b>Bandwidth</b>	3					
<b>Frequency (Hz)</b>	125	250	500	1000	2000	4000
<b>Transmission of Muffling Sound (dB)</b>	4	4	6	12	13	14

The above is the test data when the thickness of muffler board is 100mm, the muffling ability will increase when the thickness increases.

### Pressure Drop Table



### Wind and rain permeability level

Description	Standard Size	Biggest Size	Smallest Size
Height(H)	300mm~2000mm	2000mm	300mm
Width(W)	300mm~2000mm	2000mm	300mm
Thickness(D)	100mm~1000mm	1000mm	100mm

### Order Code

Formation Code ACL	Sound Absorbing Material -LB	Length x Width x Thickness (mm) ***x***x***
WRL - Muffling Louver	LB- Rock wool SC- Silent cotton FB- Glass fibre	Customized Made As Per Customer Request

1. The sample book is for reference only, and the actual product shall prevail.
2. The company reserves the right of final explanation.



More Information: Scan the QR Code  
[www.feature-tec.com.sg](http://www.feature-tec.com.sg)



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