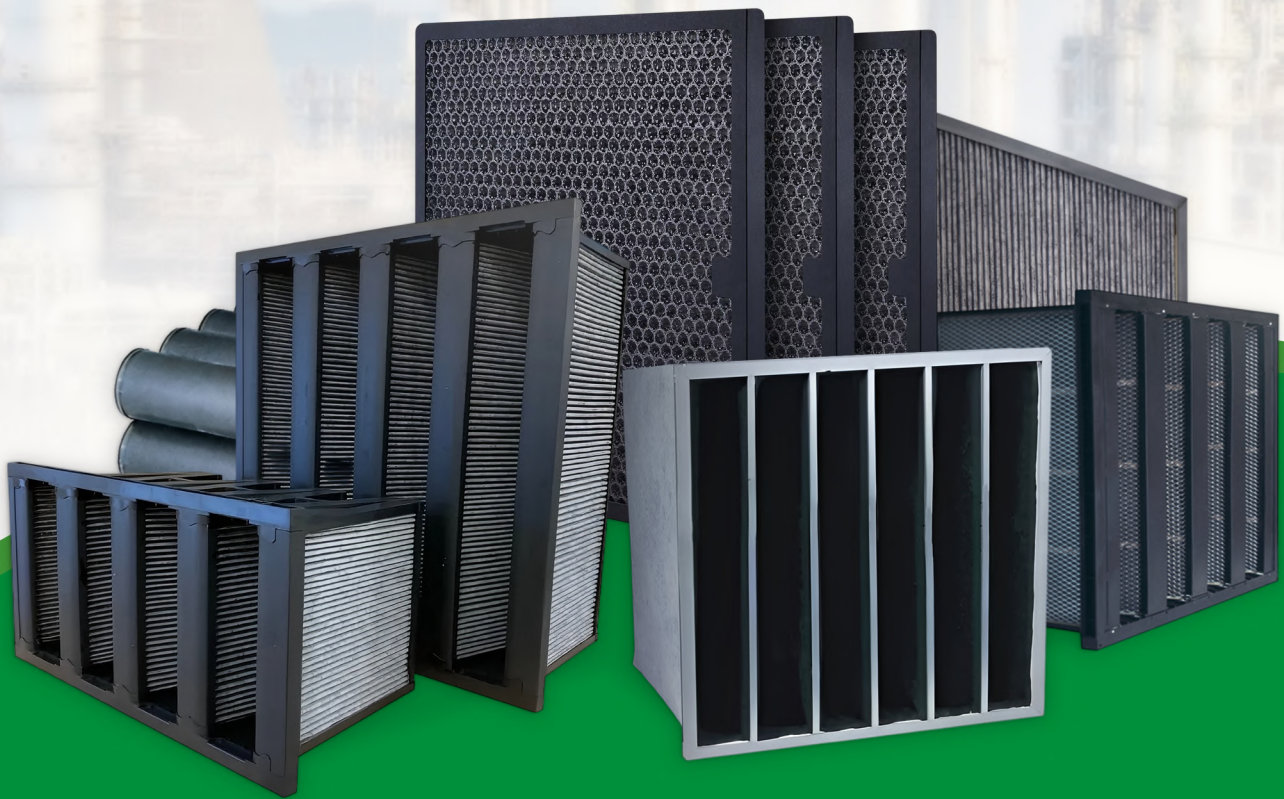




# CHEMICAL AIR FILTER

Purify Air, Eliminate Odors - Powered by Activated  
Carbon Technology





# ONE-STOP CLEANROOM SYSTEM SOLUTION PROVIDER



## Powdered Activated Carbon

Powdered activated carbon is typically combined with filter materials such as non-woven fabric or synthetic fibers to form activated carbon filters or carbon-infused filter media. These are used for the efficient removal of odors, volatile organic compounds (VOCs), and certain harmful gases from the air.

- High-quality powdered activated carbon is uniformly distributed across the base material
- Effectively adsorbs harmful gases such as formaldehyde, benzene, and TVOCs
- Can be processed into bag-type, panel-type, pleated, and other structural forms to suit various equipment
- Commonly used in household air purifiers, ventilation systems, and cleanrooms for primary chemical filtration



## Columnar Activated Carbon

Columnar activated carbon is primarily used in replaceable or regenerable chemical filters and is suitable for treating high concentrations of organic gases, hazardous volatiles, or corrosive gases.

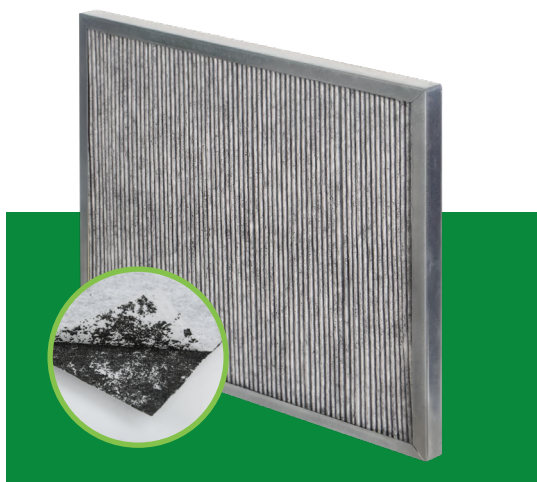
- Filled with high-strength columnar activated carbon for high adsorption efficiency and long service life.
- Optional fillings include activated carbon of various particle sizes and materials, such as coal-based, coconut shell-based, and and impregnated types.
- Commonly combined with honeycomb panels, making it suitable for high-airflow central HVAC systems or cleanroom gas treatment systems.
- Widely used in laboratory exhaust systems, acid-alkali waste gas treatment in electronics factories, and precision equipment protection.



## Category

- Panel Activated Carbon Filter
- Flat Panel Activated Carbon Filter
- Bag-type Activated Carbon Filter
- V-type Activated Carbon Filter
- Pleated Activated Carbon Filter
- Activated Carbon Filter Cartridge

# Panel Activated Carbon Filter



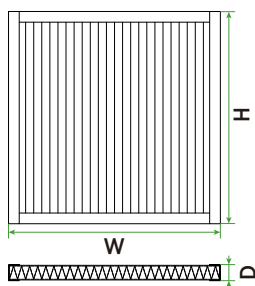
## Features

- **Pleated structure**  
 Increased filtration area, extended service life, and reduced operating resistance.
- **Lightweight construction, flexible installation**  
 Compatible with various standard air ducts and filter installation frames.
- **Economical and durable.**  
 Suitable for medium to short replacement cycles with low maintenance costs.

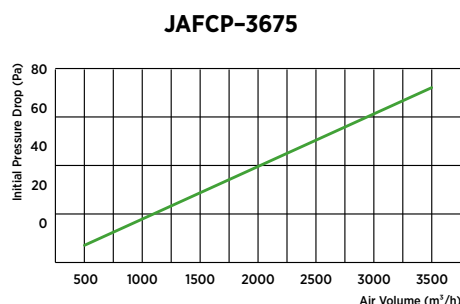
## Structure

- **Filter media**  
 Pleated composite filter media made from activated carbon impregnated non-woven fabric or a combination of activated carbon granules and synthetic fibers.
- **Frame**  
 Aluminum alloy, galvanized steel sheet, or stainless steel.
- **Protective mesh**  
 Available with double-sided protective mesh or support frame to protect the filter media.

## Structural Diagram



## Initial Pressure Drop & Airflow Relationship



## Data Sheet

Model	Dimensions ( W × H × D )	Rated Airflow	Initial Pressure Drop
	mm	m³/h	Pa
JAFCP-3675	595 × 595 × 46	3600	75
JAFCP-3075	490 × 595 × 46	3000	
JAFCP-2575	490 × 490 × 46	2500	
JAFCP-1875	290 × 595 × 46	1800	
JAFCP-1575	290 × 490 × 46	1500	
JAFCP-3650	595 × 595 × 96	3600	50
JAFCP-3050	490 × 595 × 96	3000	
JAFCP-2550	490 × 490 × 96	2500	
JAFCP-1850	290 × 595 × 96	1800	
JAFCP-1550	290 × 490 × 96	1500	

*Note: Special specifications can be customized.*

# Flat Panel Activated Carbon Filter



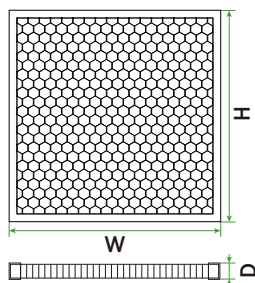
## Features

- Stable structure**  
 With an internal plastic honeycomb grid support, it effectively prevents filter media collapse and deformation.
- Outer nylon mesh protection**  
 It enhances filter element strength, prevents carbon particle leakage, and allows the surface to be wiped clean.
- High-efficiency odor removal and adsorption**  
 It effectively removes odors, smoke and VOC gases from the air.
- Low resistance, excellent ventilation**  
 Honeycomb channel structure design ensures smooth airflow.

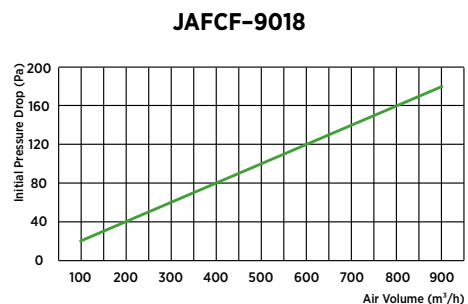
## Structure

- Filter media**  
 Columnar activated carbon granules specially treated with a unique chemical formulation as the filter media.
- Frame**  
 Galvanized steel sheet, aluminum alloy, stainless steel sheet, or ABS plastic.
- Filling carrier**  
 Eco-friendly plastic honeycomb panel.
- Auxiliary materia**  
 Black nylon mesh (for high airflow, an additional diamond-shaped protective mesh should be added on the outside)

## Structural Diagram



## Initial Pressure Drop & Airflow Relationship

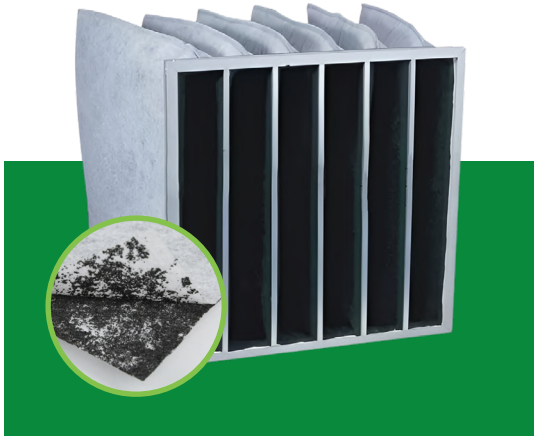


## Data Sheet

Model	External Dimensions (W×H×D)	Removal Efficiency	Activated Carbon Content	Rated Airflow	Pressure drop
	mm		kg		
JAFCF-9013	595 × 595 × 21	90	4.0	900	130
JAFCF-7513	490 × 595 × 21		3.3	750	130
JAFCF-4513	290 × 595 × 21		2.0	450	130
JAFCF-9018	595 × 595 × 46	95	8.0	900	180
JAFCF-7518	490 × 595 × 46		6.6	750	180
JAFCF-4518	290 × 595 × 46		4.0	450	180

*Note: Special specifications can be customized.*

# Bag-type Activated Carbon Filter



## Features

- Hot-melt technology at the filter bag edges ensures zero leakage.
- The filter bag features a V-type design, significantly increasing the filtration area.
- Stable structure and low air resistance, the multi-bag design provides high air handling capacity while maintaining a low pressure drop.

## Structure

### ■ Filter media

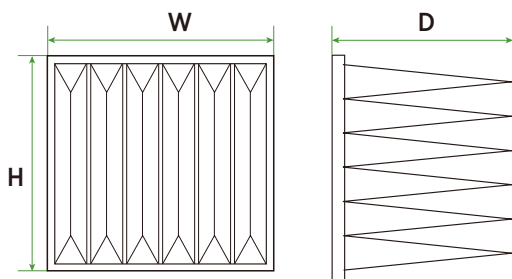
Composed of activated carbon fiber and non-woven fabric composite.

### ■ Frame

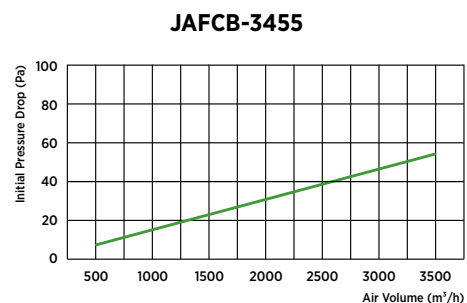
Galvanized steel sheet, aluminum alloy, stainless steel sheet, or ABS plastic.

### ■ Filtration efficiency G3-M5

## Structural Diagram



## Initial Pressure Drop & Airflow Relationship



## Data Sheet

Model	Dimensions (W × H × D)	Number of Bags	Filtration Area	Rated Airflow	Pressure Drop
	mm		m <sup>2</sup>	m <sup>3</sup> /h	Pa
JAF CB-1755	287 × 592 × 381	3	1.6	1700	55
JAF CB-2955	490 × 592 × 381	5	2.7	2900	55
JAF CB-3455	592 × 592 × 381	6	3.3	3400	55
JAF CB-1740	287 × 592 × 550	3	2.3	1700	40
JAF CB-2940	490 × 592 × 550	5	4.1	2900	40
JAF CB-3440	592 × 592 × 550	6	4.6	3400	40

*Note: Special specifications can be customized.*

# V-type Activated Carbon Filter



## Features

- **Honeycomb support structure**  
 It Utilizes high-strength plastic honeycomb panels internally for structural stability and uniform airflow.
- **High adsorption capacity**  
 Packed with premium activated carbon granules for effective removal of VOCs, odors, and low-toxicity gases.
- **V-shaped structural design**  
 It increases filtration area and carbon loading to enhance gas treatment efficiency.
- **Low resistance and high flow rate**  
 Suitable for medium to high airflow systems, offering low resistance and stable operation.

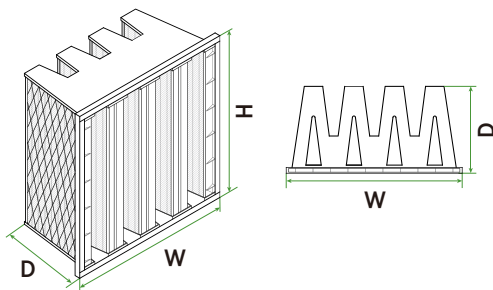


## Structure

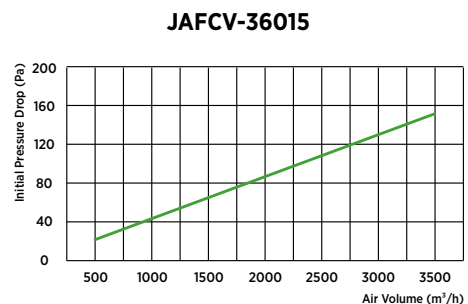
- **Filter media**  
 Columnar activated carbon granules specially treated with a unique chemical formulation as the filter media.
- **Frame**  
 ABS plastic, galvanized steel sheet, stainless steel sheet.
- **Filling carrier** Plastic honeycomb panel
- **Auxiliary materia** Black nylon mesh
- **Temperature resistance**  $\leq 90\text{ }^{\circ}\text{C}$



## Structural Diagram



## Initial Pressure Drop & Airflow Relationship



## Data Sheet



Model	External Dimensions (W × H × D)	Frame	Removal Efficiency	Activated Carbon Content	Rated Airflow	Pressure Drop
	mm		%	kg	m³/h	Pa
JAFVC-9017-1	287 × 287 × 292	Plastic frame	95	2.5	900	170
JAFVC-18016-1	592 × 287 × 292			4.8	1800	160
JAFVC-9017-2	305 × 305 × 292	Plastic frame / metal outer		4.2	900	170
JAFVC-18016-2	305 × 610 × 292			8.5	1800	160
JAFVC-18016-3	610 × 305 × 292	frame		8.5	1800	160
JAFVC-36015	610 × 610 × 292			18.0	3600	150

*Note: Special specifications can be customized.*

# Pleated Activated Carbon Filter

## Features



### ■ Pleated structure

It allows more filter media to be packed within a limited filter volume, significantly increasing the filtration area per unit volume and enhancing both filtration efficiency and adsorption capacity.

### ■ Reduced air resistance

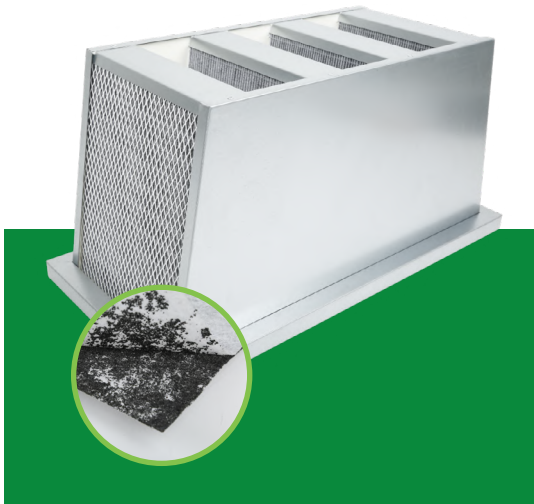
A larger filtration area results in lower air velocity per unit area, thereby reducing overall resistance (pressure drop) and maintaining optimal ventilation performance.

### ■ Enhanced structural stability

The pleated filter media, supported by a frame, effectively prevents deformation or collapse caused by air pressure.

### ■ Extended service life

Improved utilization of the filter media enables more uniform distribution of dust and gas adsorption, delaying filter saturation and the rise in airflow resistance.



## Structure



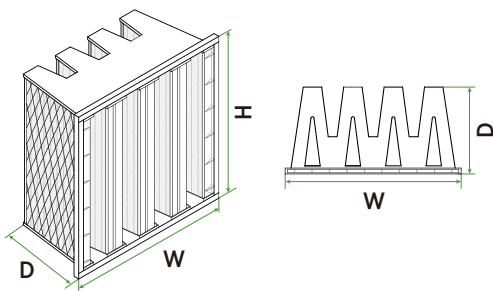
### ■ Filter media

Composed of activated carbon granules and ultrafine fiber composite material.

### ■ Frame

ABS plastic

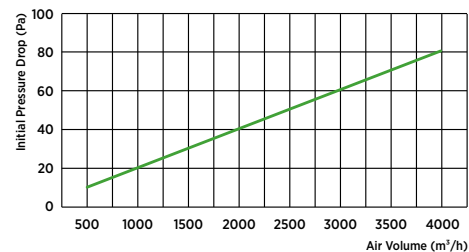
## Structural Diagram



## Initial Pressure Drop & Airflow Relationship



JAFCR-3208-4



## Data Sheet



Model	Dimensions (W × H × D)	Frame	Filtration Area	Rated Airflow	Initial Pressure Drop
	mm		m²	m³/h	Pa
JAFCR-0880	287 × 287 × 292	Plastic frame 2V	2.1	800	80
JAFCR-1280	287 × 490 × 292		3.8	1200	
JAFCR-1680	287 × 592 × 292		4.7	1600	
JAFCR-8580	305 × 305 × 292	Plastic frame/ metal frame 2V	2.7	850	
JAFCR-1780	305 × 610 × 292		5.4	1700	
JAFCR-1180	490 × 287 × 292	Plastic frame 3V	3.2	1100	
JAFCR-1980	490 × 490 × 292		5.8	1900	
JAFCR-2480	490 × 592 × 292		7.2	2400	
JAFCR-1680	592 × 287 × 292	Plastic frame 4V	3.2	1600	
JAFCR-2580	592 × 490 × 292		7.7	2500	
JAFCR-3280-4	592 × 592 × 292		9.4	3200	
JAFCR-1880	592 × 287 × 292	Plastic frame 5V	5.2	1800	
JAFCR-3280-5	592 × 490 × 292		9.5	3200	
JAFCR-3980	592 × 592 × 292		11.7	3900	
JAFCR-2180	610 × 305 × 292	Plastic frame/ metal frame 5V	6.7	2100	
JAFCR-4280	610 × 610 × 292		13.5	4200	

**Note:** Special specifications can be customized.

# Activated Carbon Filter Cartridge



## Features

- Capable of adsorbing odors, volatile organic compounds (VOCs), and low-toxicity gases
- The filter cartridge features a special structural design, enabling more convenient activated carbon replacement. Maintenance is simple and efficient, and the housing is reusable.
- The system is connected via a support plate and can accommodate 4, 9, or 16 filter cartridges. It is equipped with sealing gaskets to ensure excellent airtightness.

## Structure

### Filter media

Utilizes activated carbon granules treated with a special chemical formulation.

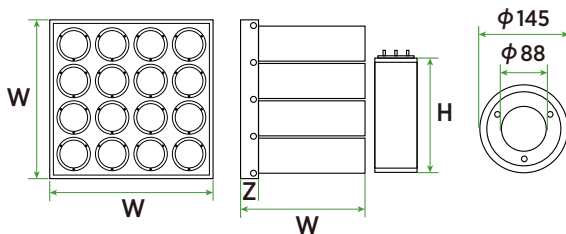
### Filter cartridge materials

ABS plastic, galvanized steel sheet, stainless steel.

### Frame

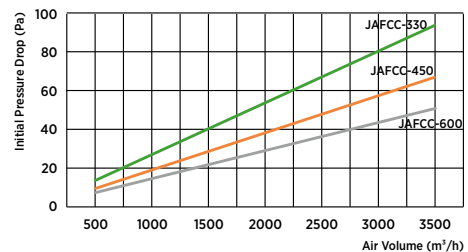
Galvanized steel sheet or stainless steel

## Structural Diagram



## Initial Pressure Drop & Airflow Relationship

JAFCC Activated Carbon Cylinder



## Data Sheet

Cartridge Model	Cartridge Dimensions mm	Combined Unit Dimensions			Number of Cartridges	Activated Carbon Content kg	Removal Efficiency %	Rated Airflow m³/h	Initial Pressure Drop Pa		
		W	H	D+70							
JAFCC-33016	φ145 × 330	610	610	400	16	24.0	90	3600	140		
JAFCC-33012		508	610		12					18.0	2700
JAFCC-33008		305	610		8					12.0	1800
JAFCC-33004		305	305		4					6.0	900
JAFCC-45016	φ145 × 450	610	610	520	16	33.0	95	3600	100		
JAFCC-45012		508	610		12					24.5	2700
JAFCC-45008		305	610		8					16.5	1800
JAFCC-45004		305	305		4					8.0	900
JAFCC-60016	φ145 × 600	610	610	670	16	43.2	95	3600	75		
JAFCC-60012		508	610		12					32.4	2700
JAFCC-60008		305	610		8					21.6	1800
JAFCC-60004		305	305		4					10.8	900

*Note: Special specifications can be customized.*

# Applications



## Commercial & Residential Buildings



- Installed in central air conditioning, dedicated outdoor air systems, or return air sections
- Effectively removes common odors such as renovation odors, smoke, and food odors
- Enhances indoor air quality in office buildings, shopping malls, hotels, cinemas, and similar places



## Industrial Plants & Workshops



- Applied in exhaust systems for industries such as electronics, printing, painting, and chemical engineering
- Adsorbs VOCs (volatile organic compounds), mildly toxic and harmful gases, and odors



## Medical Institutions & Laboratories



- Installed in ventilation systems for operating rooms, pharmaceutical laboratories, and patient wards
- Removes residual gases such as alcohol, anesthetics, and disinfectants to safeguard personnel health



## Transportation Hubs & Public Spaces



- Applicable to airports, subway stations, train stations, and other high-density areas
- Removes unpleasant odors such as cigarette smoke, body odor, and food smells to enhance passenger experience

# PureFlow

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