

## General

Fan Pack's are fully self-contained, air cleaning systems, designed for precise control of particulate, gas-phase and bioaerosol contaminants (or any combination) from process or ambient air. These units feature a broad range and combination of filtration components that allow for exact controls to be selected and packaged to meet individual applications.

The available components include the finest in medium, high, and HEPA efficiency filters, UVC Emitters™ and TechSorb™ chemical media, as well as our HCC electrostatic collectors.

Fan Pack's feature integral fans sized to fit the specified demand and efficiently deliver the required air volume. The unitary designs include a 3" integral base, complete fan isolation and extruded aluminum filter tracks equipped with woven pile filter seals. All joints are coated with silicone compound and all access doors are equipped with neoprene gaskets and bolt down, knurl-knob latches to provide the finest seal against ambient air.

Fan Pack's can be installed as ducted systems to control particulate, gas phase and/or bioaerosol contaminants at the source or without ductwork to remove fugitive airborne contaminants.

Air Scrubbers will help you assess your air pollution requirements to select the right Fan Pack configuration for your specific needs.

## Options

- Single or double wall insulation
- Epoxy coatings
- Exterior seam welding
- Hang bases
- Aluminum or stainless construction
- 14 ga galvanized steel housing
- Inlet and exhaust plenums
- Source capture articulating fume arms
- TEFC or explosion proof motor/blower

## Applications

Fan Pack's are available in 14 single and multi-stage filtration component configurations to solve a wide variety of air pollution problems. They are used to remove nuisance or hazardous airborne contaminants from manufacturing processes, laboratory environments, isolation rooms, and a host of other areas.

Below is a partial listing of applications.

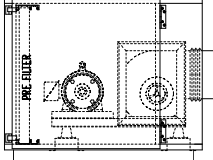
- Metalworking, machining & grinding smoke & dust
- Welding & soldering fumes
- Vinyl extrusion plasticizers
- Rubber curing & forming smoke
- Pharmaceutical microbial control
- General and infectious bioaerosols
- Vacuum pump exhaust
- Storage warehouse air cleaning
- Solvent cleaning & gluing fumes
- Pharmaceutical processing dusts
- Offset printing powders
- Heat treating smoke
- Diesel engine exhaust



Model PR-1, 30% Prefilter, 95% Rigid Filter, Blower, 16 ga. Galvanized Construction, 3" Base

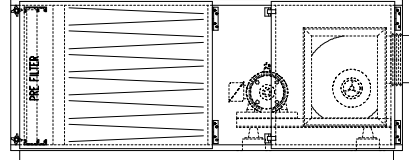
# Fan Pack Selection Guide

**Model "P" Single-Stage**  
30% prefilter



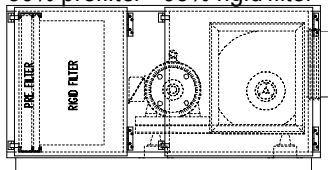
Model	CFM	TSP	Size	Height	Width	Depth	HP
P-1	1,000	1.0"	1x1	26.25"	24.00"	34.00"	1
P-2	2,000	1.0"	1x1	26.25"	24.00"	34.00"	2
P-3	3,000	1.0"	1x1-1/2	26.25"	36.00"	42.00"	3
P-4	4,000	1.0"	1x2	26.25"	48.00"	40.00"	3
P-6	6,000	1.0"	1-1/2x2	38.50"	48.00"	46.00"	5
P-8	8,000	1.0"	2x2	50.50"	48.00"	54.00"	5
P-10	10,000	1.0"	2x2-1/2	50.50"	59.00"	58.00"	5

**Model "PC" 2-Stage**  
30% prefilter • activated carbon



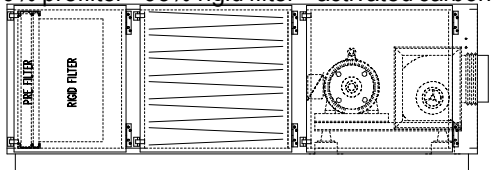
Model	CFM	TSP	Size	Height	Width	Depth	HP
PC-1	1,000	1.25"	1x1	26.25"	24.00"	68.00"	1
PC-2	2,000	1.25"	1x1	26.25"	24.00"	68.00"	1.5
PC-3	3,000	1.25"	1x1-1/2	26.25"	36.00"	73.00"	3
PC-4	4,000	1.25"	1x2	26.25"	48.00"	78.00"	3
PC-6	6,000	1.25"	1-1/2x2	38.50"	48.00"	82.00"	5
PC-8	8,000	1.25"	2x2	50.50"	48.00"	82.00"	7.5
PC-10	10,000	1.25"	2x2-1/2	50.50"	59.00"	85.00"	7.5

**Model "PR" 2-Stage**  
30% prefilter • 95% rigid filter



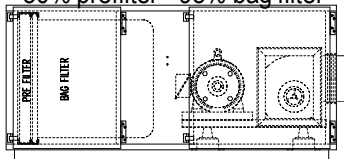
Model	CFM	TSP	Size	Height	Width	Depth	HP
PR-1	1,000	1.8"	1x1	26.25"	24.00"	50.00"	1
PR-2	2,000	1.8"	1x1	26.25"	24.00"	54.00"	3
PR-3	3,000	1.8"	1x1-1/2	26.25"	36.00"	56.00"	3
PR-4	4,000	1.8"	1x2	26.25"	48.00"	56.00"	5
PR-6	6,000	1.8"	1-1/2x2	38.50"	48.00"	62.00"	7.5
PR-8	8,000	1.8"	2x2	50.50"	48.00"	68.00"	7.5
PR-10	10,000	1.8"	2x2-1/2	50.50"	59.00"	68.00"	7.5

**Model "PRC" 3-Stage**  
30% prefilter • 95% rigid filter • activated carbon



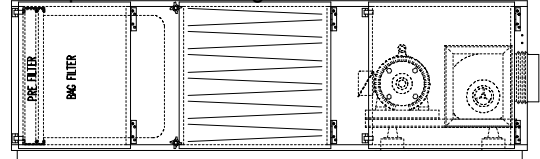
Model	CFM	TSP	Size	Height	Width	Depth	HP
PRC-1	1,000	2.1"	1x1	26.25"	24.00"	80.00"	1
PRC-2	2,000	2.1"	1x1	26.25"	24.00"	82.00"	3
PRC-3	3,000	2.1"	1x1-1/2	26.25"	36.00"	83.00"	5
PRC-4	4,000	2.1"	1x2	26.25"	48.00"	85.00"	5
PRC-6	6,000	2.1"	1-1/2x2	38.50"	48.00"	92.00"	10
PRC-8	8,000	2.1"	2x2	50.50"	48.00"	96.00"	10
PRC-10	10,000	2.1"	2x2-1/2	50.50"	59.00"	100.00"	10

**Model "PB" 2-Stage**  
30% prefilter • 95% bag filter



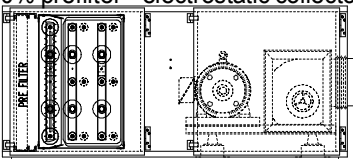
Model	CFM	TSP	Size	Height	Width	Depth	HP
PB-1	1,000	1.8"	1x1	26.25"	24.00"	64.00"	1
PB-2	2,000	1.8"	1x1	26.25"	24.00"	68.00"	3
PB-3	3,000	1.8"	1x1-1/2	26.25"	36.00"	70.00"	3
PB-4	4,000	1.8"	1x2	26.25"	48.00"	70.00"	5
PB-6	6,000	1.8"	1-1/2x2	38.50"	48.00"	76.00"	7.5
PB-8	8,000	1.8"	2x2	50.50"	48.00"	82.00"	7.5
PB-10	10,000	1.8"	2x2-1/2	50.50"	59.00"	88.00"	7.5

**Model "PBC" 3-Stage**  
30% prefilter • 95% bag filter • activated carbon



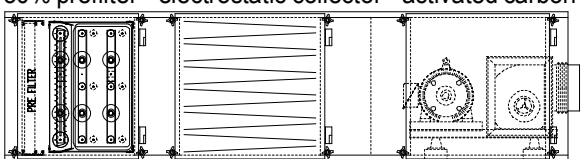
Model	CFM	TSP	Size	Height	Width	Depth	HP
PBC-1	1,000	2.1"	1x1	26.25"	24.00"	94.00"	1
PBC-2	2,000	2.1"	1x1	26.25"	24.00"	98.00"	3
PBC-3	3,000	2.1"	1x1-1/2	26.25"	36.00"	98.00"	5
PBC-4	4,000	2.1"	1x2	26.25"	48.00"	98.00"	5
PBC-6	6,000	2.1"	1-1/2x2	38.50"	48.00"	107.00"	10
PBC-8	8,000	2.1"	2x2	50.50"	48.00"	112.00"	10
PBC-10	10,000	2.1"	2x2-1/2	50.50"	59.00"	116.00"	10

**Model "PE" 2-Stage**  
30% prefilter • electrostatic collector



Model	CFM	TSP	Size	Height	Width	Depth	HP
PE-2	2,000	1.20"	1x1	27.00"	27.50"	63.00"	1.5
PE-4	4,000	1.20"	1x2	27.00"	51.00"	69.00"	3
PE-8	8,000	1.20"	2x2	50.50"	51.00"	75.00"	5

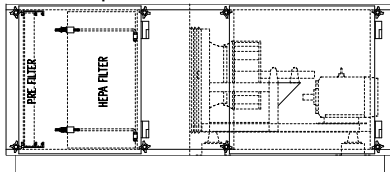
**Model "PEC" 3-Stage**  
30% prefilter • electrostatic collector • activated carbon



Model	CFM	TSP	Size	Height	Width	Depth	HP
PEC-2	2,000	1.45"	1x1	27.00"	27.50"	96.00"	1.5
PEC-4	4,000	1.45"	1x2	27.00"	51.00"	102.00"	3
PEC-8	8,000	1.45"	2x2	50.50"	51.00"	108.00"	5

### Model "PH" 2-Stage

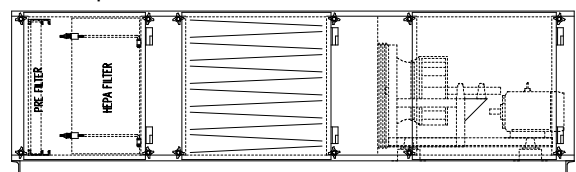
30% prefilter • 99.97% HEPA



Model	CFM	TSP	Size	Height	Width	Depth	HP
PH-1	1,000	2.5"	1x1	26.50"	30.00"	70.00"	1
PH-2	2,000	2.5"	1x1	26.50"	30.00"	70.00"	1.5
PH-3	3,000	2.5"	1x1-1/2	26.50"	39.00"	64.00"	3
PH-4	4,000	2.5"	1x2	32.00"	51.00"	70.00"	3
PH-6	6,000	2.5"	1-1/2x2	39.00"	51.00"	75.00"	5
PH-8	8,000	2.5"	2x2	51.00"	51.00"	87.00"	7.5
PH-10	10,000	2.5"	2x2-1/2	51.00"	64.00"	82.00"	7.5

### Model "PHC" 3-Stage

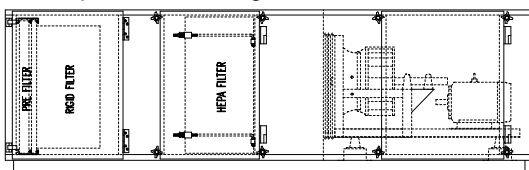
30% prefilter • 99.97% HEPA • activated carbon



Model	CFM	TSP	Size	Height	Width	Depth	HP
PHC-1	1,000	2.75"	1x1	26.50"	30.00"	102.00"	1
PHC-2	2,000	2.75"	1x1	26.50"	30.00"	102.00"	2
PHC-3	3,000	2.75"	1x1-1/2	26.50"	39.00"	107.00"	3
PHC-4	4,000	2.75"	1x2	29.00"	51.00"	100.00"	5
PHC-6	6,000	2.75"	1-1/2x2	39.00"	51.00"	123.00"	7.5
PHC-8	8,000	2.75"	2x2	51.00"	51.00"	124.00"	7.5
PHC-10	10,000	2.75"	2x2-1/2	51.00"	64.00"	112.00"	10

### Model "PRH" 3-Stage

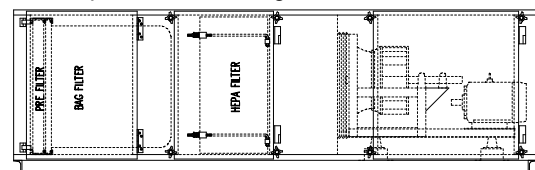
30% prefilter • 95% rigid filter • 99.97% HEPA



Model	CFM	TSP	Size	Height	Width	Depth	HP
PRH-1	1,000	3.1"	1x1	26.50"	30.00"	93.00"	1
PRH-2	2,000	3.1"	1x1	26.50"	30.00"	93.00"	2
PRH-3	3,000	3.1"	1x1-1/2	26.50"	39.00"	98.00"	3
PRH-4	4,000	3.1"	1x2	29.00"	51.00"	92.00"	5
PRH-6	6,000	3.1"	1-1/2x2	39.00"	51.00"	105.00"	7.5
PRH-8	8,000	3.1"	2x2	51.00"	51.00"	113.00"	7.5
PRH-10	10,000	3.1"	2x2-1/2	51.00"	64.00"	118.00"	10

### Model "PBH" 3-Stage

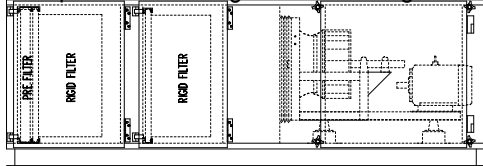
30% prefilter • 95% bag filter • 99.97% HEPA



Model	CFM	TSP	Size	Height	Width	Depth	HP
PBH-1	1,000	3.1"	1x1	26.50"	30.00"	101.00"	1
PBH-2	2,000	3.1"	1x1	26.50"	30.00"	101.00"	2
PBH-3	3,000	3.1"	1x1-1/2	26.50"	39.00"	106.00"	3
PBH-4	4,000	3.1"	1x2	29.00"	51.00"	100.00"	5
PBH-6	6,000	3.1"	1-1/2x2	39.00"	51.00"	113.00"	7.5
PBH-8	8,000	3.1"	2x2	51.00"	51.00"	121.00"	7.5
PBH-10	10,000	3.1"	2x2-1/2	51.00"	64.00"	126.00"	10

### Model "PRR" 3-Stage

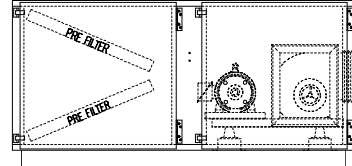
30% prefilter • 65% rigid filter • 95% rigid filter



Model	CFM	TSP	Size	Height	Width	Depth	HP
PRR-1	1,000	2.7"	1x1	26.25"	30.00"	84.00"	1
PRR-2	2,000	2.7"	1x1	26.25"	30.00"	84.00"	2
PRR-3	3,000	2.7"	1x1-1/2	28.00"	36.00"	87.00"	3
PRR-4	4,000	2.7"	1x2	32.00"	48.00"	89.00"	5
PRR-6	6,000	2.7"	1-1/2x2	38.50"	48.00"	102.00"	5
PRR-8	8,000	2.7"	2x2	50.50"	48.00"	104.00"	7.5
PRR-10	10,000	2.7"	2x2-1/2	50.50"	59.00"	108.00"	7.5

### Model "V" Single-Stage

30% Vee bank filter



Model	CFM	TSP	Size	Height	Width	Depth	HP
V-1	1,000	1.0"	1x1	26.25"	24.00"	58.00"	1
V-2	2,000	1.0"	1x1	26.25"	24.00"	60.00"	2
V-3	3,000	1.0"	1x1-1/2	26.25"	36.00"	64.00"	3
V-4	4,000	1.0"	1x2	26.25"	48.00"	64.00"	3
V-6	6,000	1.0"	1-1/2x2	38.50"	48.00"	74.00"	5
V-8	8,000	1.0"	2x2	50.50"	48.00"	76.00"	5
V-10	10,000	1.0"	2x2-1/2	50.50"	59.00"	80.00"	5

## Fan Pack Filter Schedule

Stage	Fan Pack Model														
	P	PC	PR	PRC	PB	PBC	PH	PHC	PE	PEC	PRH	PBH	PRR	V	
1	P30	P30	P30	P30	P30	P30	P30	P30	P30	P30	P30	P30	P30	P30	
2	—	CP1	R95	R95	B95	B95	H99	H99	E95	E95	R95	B95	R75	—	
3	—	—	—	CP1	—	CP1	—	CP1	—	CP1	H99	H99	R95	—	

P30: 30%, 4", Pleated Prefilter

R75: 75%, 12", Rigid Filter

R95: 95%, 12", Rigid Filter

B95: 95%, 30", 10 Pocket Bag Filter

H99: 99.97%, 12", HEPA Filter

E95: 95%, Electrostatic Collector

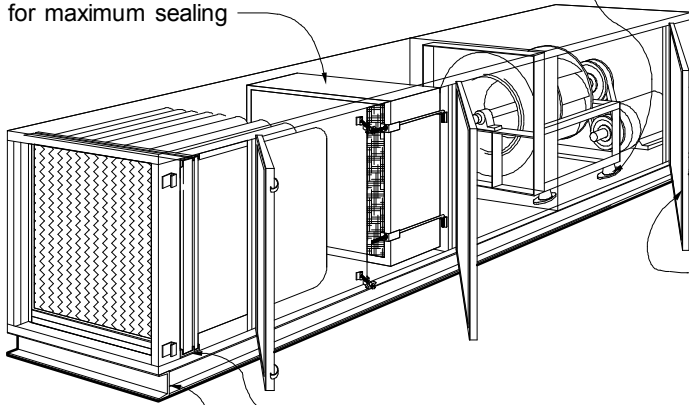
CP1: 1" Bonded, Activated Carbon Panel



## Key Features

### Exterior Housing Completely Sealed

All interior and exterior metal-to-metal connections are sealed with silicone compound for maximum sealing integrity.



### BI/AF and Centrifugal Blowers

All blowers are connected to the unit with neoprene coated flexible fabric and rubber-in-shear isolators.

### Heavy-Duty Knurl-Knob Latches

Access doors are fitted with bolt-down knurl-knob latches that assure maximum sealing integrity.

### Fully Gasketed Access Doors

High memory neoprene gasket for complete door closure and filter sealing.

### Rugged Construction

All units are factory assembled in a "one piece" unit constructed of 14 or 16 ga. galvanized steel with 3" integral base.

### Extruded Aluminum Filter Tracking

Extruded aluminum tracking, combined with reinforced woven nylon pile seal creates corrosion resistant filter seal.

**Unit Shown - Model PBH-1 with 30% prefilter, 95% bag filter, 99.97% HEPA and backward inclined plenum blower/motor.**

## Notes

1. Fan Pack's are shipped with filters as specified on the order.
2. Refer to Filter Schedule on page 3 for appropriate filter selection.
3. Pleats, bags and electrostatic collectors are shipped installed in the Fan Pack housing.
4. Refer to applicable unit submittal drawing for complete actual dimensions.
5. Refer to Fan Pack price list, Form No. \_\_\_\_ for all unit and option pricing.
6. Go to [airscrubbersinc.com](http://airscrubbersinc.com) for replacement filters.
7. Special blower/motor combinations are available.

HEPA filters and carbon panels are shipped individually packaged.

## Engineering Specifications

### 1.0 General

The air cleaner shall be the unitary industrial type, furnished in a side access housing, containing \_\_\_stage(s)of particulate air filter and/or gas-phase sorbent media, complete with integral blower and motor sized to deliver the air volume as specified in Paragraph 4.0. The air cleaner shall be Air Scrubbers Fan Pack , Model \_\_\_\_.

### 2.0 Construction

2.1 Unit housing shall be constructed from 16 gauge (14gauge for HEPA units) galvanized steel, welded, with all interior and exterior metal-to-metal joints sealed with silicone compound, mounted on a painted, 3" base.

2.2 Access doors shall be fully gasketed on the inside with high memory neoprene gasketing. Interior of access doors and cabinet shall be supplied with gasketing to seal against the vertical edges of filters. Filter tracks shall be fully gasketed and provide positive seal against filter media to prevent air by-pass.

### 3.0 Blower/Motor

Blower/motor shall be mounted on a heavy duty, unitary frame and use rubber-in-shear vibration isolators and neoprene coated flexible fabric for blower/motor-to-cabinet connections. Blower with fixed sheave, motor with adjustable sheave and drive belt shall be furnished.

3.1 Blower shall be double width double inlet with forward curved wheel or backward inclined plenum fan.

3.2 Motor shall be Open Drip Proof, 3 Phase/ 60 Hz/ 208-230-460VAC, rated for continuous duty.

### 4.0 Performance

The system shall deliver \_\_\_ CFM at \_\_\_ inches w.g. (from tables), based on the sum of the pressure drop through clean filters, plus 30% anticipated filter loading, plus one-half inch system loss, plus one-half inch external static pressure.

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