

## General

Flanders -Precisionaire Fan Pack II's are fully self-contained, industrial grade 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 II'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 II'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.

Flanders-Precisionaire will help you assess your air pollution requirements to select the right Fan Pack

II configuration for your specific needs.

## Applications

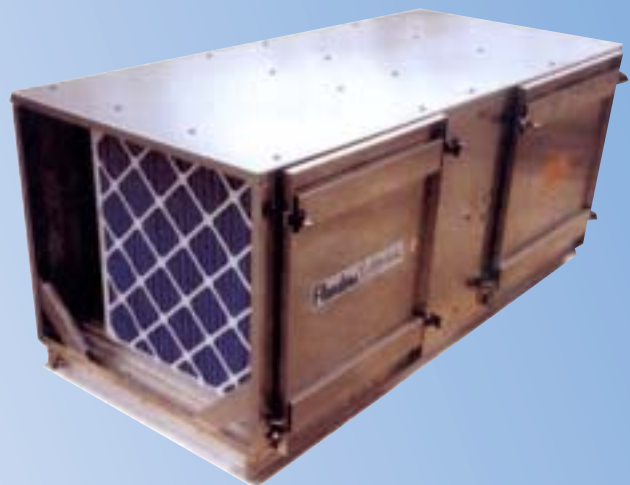
Fan Pack II's are available in 14 single and multi-stage filtration component configurations to solve a wide variety of air pollution problems. They are used to remove nuisance or hazardous airborne contaminants from manufacturing processes, laboratory environments, isolation rooms, and a host of other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

## Options

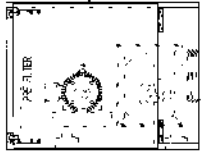
- Single or double wall insulation
- Epoxy coatings
- Exterior seam welding
- Hang bases
- Aluminum or stainless construction
- 14 ga galvanized steel housing
- Inlet and exhaust plenums
- Source capture articulating fume arms
- TEFC or explosion proof motor/blower



# Fan Pack II Selection Guide

## Model "P" Single-Stage

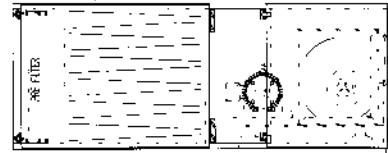
30% prefilter



| 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

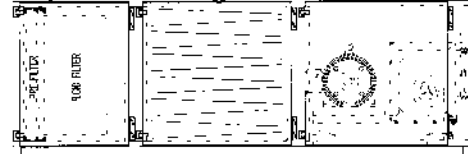
30% prefilter • 95% rigid filter



| 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

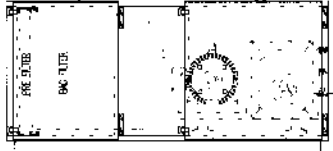
30% prefilter • 95% rigid filter • activated carbon



| 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

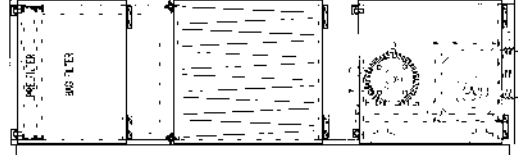
30% prefilter • 95% bag filter



| 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

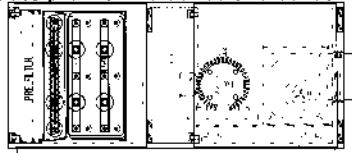
30% prefilter • 95% bag filter • activated carbon



| 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

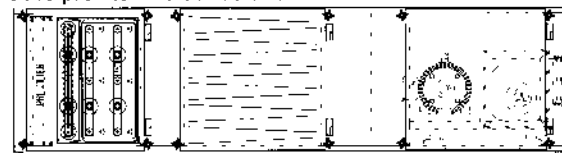
30% prefilter • electrostatic collector



| 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   |

Flanders Precisionaire - Foremost in Air Filtration

Engineered Products: 1-800-637-2803

Replacement Products: 1-800-347-2220

**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 II Filter Schedule

| Stage | 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     | --- | C29 | R95 | R95 | B95 | B95 | H99 | H99 | E95 | E95 | R95 | B95 | R75 | --- |
| 3     | --- | --- | --- | C29 | --- | C29 | --- | C29 | --- | C29 | H99 | H99 | R95 | --- |

Refer to the bulletin numbers shown for complete specifications

R75: 75%, 12 in., Superflow-V (Bulletin PB-1000)

R95: 95%, 12 in., Superflow-V (Bulletin PB-1000)

B95: 95%, 30 in., 10 Pocket, Precision Pak (Bulletin PB-1100)

H99: 99.99%, 12 in., Alpha 2000 High Capacity HEPA (Bulletin PB-1402)

E95: 95%, Electrostatic Collector Model HCC (Bulletin PB-1802)

C29: TS-209, HMZD Bonded Carbon Panels, 1 in. (Bulletin PB-1207)

### **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.

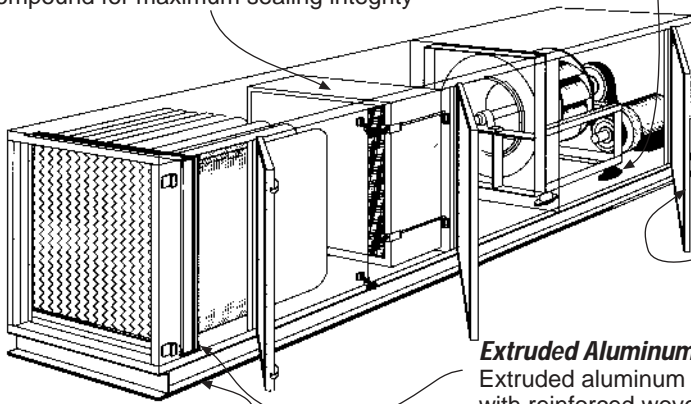
### **Extruded Aluminum Filter Tracking**

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

### **Rugged Construction**

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

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



#### Notes

1. Fan Pack II'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 II housing. HEPA filters and carbon panels are shipped individually packaged.
4. Refer to applicable unit submittal drawing for complete actual dimensions.
5. Refer to Fan Pack II price list for all unit and option pricing.
6. Refer to Flanders-Precisionaire Filter Price List, for replacement filter pricing.
7. Special blower/motor combinations are available.

## Guide Specifications

### 1.0 General

- 1.1 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 Flanders Precisionaire Fan Pack II, 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

- 3.1 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.
- 3.2 Blower shall be double width double inlet with forward curved wheel or backward inclined plenum fan.
- 3.3 Motor shall be Open Drip Proof, 3 Phase/ 60 Hz/ 208-230-460VAC, rated for continuous duty.

### 4.0 Performance

- 4.1 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.

**Flanders Precisionaire**

**Foremost in Air Filtration**

**Engineered Products: 1-800-637-2803**

**Replacement Products: 1-800-347-2220**

REPRESENTED BY: