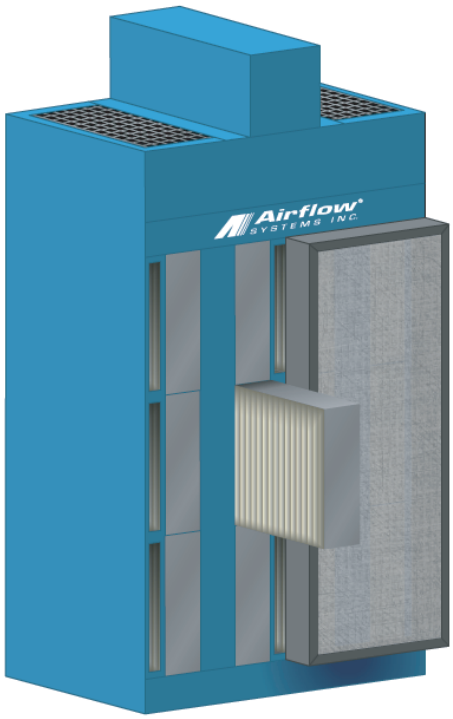
Panel Filter PowerBooth™



Panel Filter Self-Contained Dust Control Systems

Panel Filter PowerBooth™ & Dust Control Booth™

The Airflow Systems PowerBooth and Dust Control Booth provide a self-contained work environment, removing airborne contaminants from worker breathing zones and preventing pollutants from migrating into other areas of the facility. Constructed of galvanized 16 gauge steel the PowerBooth and Dust Control Booth easily integrate into industrial environments.

Ambient Collection Volume; Source Collection Efficiency

Many in-plant finishing operations generate heavy amounts of airborne contaminants that cannot be adequately handled by source collection. These contaminants can also spread through a facility contaminating other processes before they can be collected by ambient systems. Airflow Systems Powerbooth and modular Dust Control Booth systems go to work where source capture and ambient systems cannot.

Industrial Applications:

- Welding
- Grinding
- Sanding
- Woodworking
- Powders
- Composite dust
- Smoke
- Brazing
- Abrasive blasting
- Surface finishing
- Metalworking
- Buffing
- Machining
- Hand work
- Batch processing
- Curring
- Overspray
- Powder coating

Specifications:

Size: Width - 48” Depth - 24” Height - 108”

Air Flow: 5500 CFM

Blower: 3 HP Direct Drive BI 1800 RPM

Sound Level: 77 DBA

Flexible Filter Configurations

First stage	Second Stage	Third Stage
24 x 24 x 6 MERV 11	None	None
24 x 24 x 2 MERV 11	24 x 24 x 4 95% ASHRAE	None
24 x 24 x 2 MERV 11	24 x 24 x 4 HEPA	24 x 24 x 1MERV 11
24 x 24 x 2 MERV 11	24 x 24 x 2 MERV 11	24 x 24 x 2 MERV 11
24 x 24 x 2 MERV 11	24 x 24 x 3 Carbon 12 cubit feet total carbon	24 x 24 x 1 MERV 11

Optional 2” Poly Prefilter for stringy or sticky dust

Features & Benefits:

Improved Dust Capacity in Three Ways

1. The filter media itself has been improved. The new media utilizes a combination of fiber shaping, engineered gradient density, electrostatic charge and a sturdy wire reinforced pleat to assure that initial efficiency is high and that ability of the filter to hold dust is also very high.

2. The deep six inch pleated filters contain 42 square feet of media each. The PFPB includes twelve filters for a total media area of 504 square feet for the standard configuration. The air to cloth ratio is a mere 10% of the maximum recommended for the MERV 11 media.

3. The high pressure of the direct drive blower maintains a flow of 5000 CFM at a pressure of two inches water column. At this pressure the filters can be filled to the maximum capacity.

Low Operating Cost

The Panel Filter Power Booth provides 5000 to 6000 CFM with only three horsepower. The reduced pressure requirement of the panel filters means big energy savings. The backward inclined fan wheel turns at only 1800 RPM to provide high fan efficiency and much better pressure than the forward curved belt drive type fans. Many users may find that the reduced energy costs are greater that the filter replacement costs.