



Industrial Contractors' Supplies, Inc.

- Dust Director Division -

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www.dustdirector.com

Respiratory Ventilation - Industrial Power Blowers & Accessories



Power Blower Ventilation

Concrete, Masonry Grinding
Carbon Monoxide

Demolition Debris & Dust
Welding Smoke

Floor Coating Odors
Offensive Fumes



Heavy-Duty All Weather Debris Containment Bags

- 4' x 12' High Efficiency Filter Collection Bag
- Used indoors or outside and unaffected by the harshest of weather

The Right Size & Right Motor for Any Job

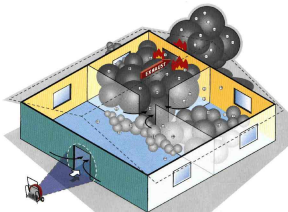
- 16" Industrial Power Blower - 5,200 CFM
- 24" Industrial Power Blower - 12,867 CFM
- Both operate from a residential 110 volt, 20 amp breaker



Portable, Flexible, Powerful - Highly Effective

COLLECTION - CONTAINMENT - EXHAUSTS - Available with flexible ducting for venting or exhausting.

Protecting Personnel From Hazardous Environments is Vital - Venting silica dust, toxic gases, fumes, smoke and heat from work areas makes the work environment safe for everyone. 2 Methods are Used:



Positive Pressure Ventilation (PPV) - In a typical PPV application, the fan is placed about four to ten feet from the doorway of the structure and is positioned so that the cone of air produced by the fan completely seals the opening.

Once the doorway is sealed, air pressure inside the structure builds almost instantly. An exhaust opening, usually a rear door or window, allows the air to quickly escape due to the difference between the outside and inside air pressure. The smoke, fumes, dust and other contaminants are quickly cleared and replaced with fresh, clean air.

The Dust Director series of Industrial Blowers have a unique shroud design that creates the "cone of air" that is essential for PPV to work. In addition, the multiple blades of the AirFlex Impellers create the pressure required to move air out.

Negative Pressure Ventilation (NPV) - The extraction of air from a room or structure using suction technique. Using an Industrial Power Blower equipped with Flex Tubing or Smooth Bore Ducting, any environment can be cleared and exhausted with NPV.

Placed near the source of contamination and using the 24" Power Blower and its 12867 CFM, up to 300' of Corrugated Flex Tubing or 500' of Smooth Bore Ducting may be used to contain or exhaust to an outside area.



INDUSTRIAL POWER BLOWERS

Ventilation System: Dust / Fume / Odor Control System

The EB-24K is our most popular ventilation system, providing a simple yet extremely effective way to remove dust, fumes or odors from a jobsite. Place the blower near the source of the contaminants and connect the *high efficiency* Dust Containment Bag.



Ventilation Kit Includes:

- EB-24 Industrial Power Blower - provides 12,876 CFM for fast air movement (extraction power) Extremely durable and portable, just tilt and move the blower anywhere with its 8" rubber wheels.
- 4' x 12' High Efficiency Silica Dust Filter Bag. Filter bag is washable and re-useable with 4' zipper.
- Ratchet Tie-Down Strap - easily secures the filter bag to the shroud of the blower.

For additional features and specifications, see the individual items below.

P/N: EBS-24K **\$2,100.00**



Square Box EBS-16 Dust Ejector

Featuring the AirFlex composite impeller, the EBS-16 is the most powerful 16" 1/3 HP blower available, able to move 5,200 CFM. Designed to be used for both positive and negative ventilation. Flex tube and Smooth Bore Ducting can be connect with optional duct adapter ring.

- Durable All-Steel Housing
- Integrated Built-in Carrying Handles
- 1/3 HP, 60 Hz Electric Motor @ 1736 Rpm
- AirFlex Impeller for NPV or PPV
- Continuous Wire Grill Guard

P/N: EBS-16 **\$1,200.00**

P/N: 725-042 16" Adapter. Attaches to inlet or outlet side of the EBS-16 for attaching air duct or the silica filter bag.

\$135.00 ea.



Versatile, Mobile, Heavy-Duty EB-24-I for Large Site Ventilation - Industrial Ventilation

The best general-purpose ventilator on the market - Powerful air shaft ventilates any jobsite. Heavy-duty shroud increases air velocity for large area ventilation and allow for attaching both Smooth Bore and Corrugated Ducting and the 12' Silica Dust Containment Bag.

Manufactured from industrial grade materials, their rugged frame incorporates 12 gauge x 1" steel tubing and are powder coated for long lasting durability. Strong, light-weight frame is beaded on every bend and cross braced welded, providing structural engineering that gives the frame more strength and durability than most larger tubing models that can weight as much as 30% more.

Includes the patented AirFlex impellers for increased CFM and smoother, controlled airflow. Place this blower near the source of contaminants and using Smooth Bore Ducting, you can exhaust the dust to an outside area up to 500' away.

Grills are single wire spiral, zinc-plated with a clear chromate finish that meets UL and CE safety requirements.

P/N: EB-24-I **\$1,900.00**

Model	Size	Motor/HP ¹	Amps ²	CFM ³	RPM	Width	Depth	Height	Weight
EBS-16	16"	1/3 TEFC	6.3	5,200	1,736	18.75"	14.25"	19.50"	47 lbs.
EB-24-I	24"	1 TEFC	16.0	12,876	1,736	28.75"	26"	34.50"	120 lbs.

Electric Power Blower Specifications

UL approved and certified by CSA International. The powerful, durable and versatile motors used in the blowers are specifically designed for both Positive and Negative Pressure Ventilation. Features of the motors include:

- No exhaust emissions, as when using a gas engine which exhausts carbon monoxide inside the structure that you are trying to ventilate.
- Never needs an "oil change" or having gas go bad while sitting in storage.
- Operates from standard residential 115V, 20Amp receptacle without tripping the circuit breaker.
- Designed to be mobile.
- A one horse motor is very economical to operate.

¹ **Totally Enclosed Fan Air Cooled Over Motor (TEFC).** Motors are totally enclosed and protected from dust damaged, constantly air cooled by the fan's air over motor cooling, and are included with an automatic overload heat sensor.

Overload Heat Sensor. Prevents the motors from overheating, possibly due to a filter collection bag having insufficient air flow (the filter bag needs emptied.)

Air Over Motor Cooling. The high velocity screw action from the blower sweeps the air over the motor, guaranteeing that your blower operates cooler and with increased motor life.

² **No Startup AMP Surge.** Control Module prevents start-up power surge by gradually increasing rpm from 0 to selected speed. Draws minimal amps on star up, increasing gradually to maximum amp load. Runs on standard 15 or 20 amp residential circuit when you need a blower on an upper level floor or on small generators of 3000 watts or less if proper gauge extension cords are used.

³ Based on the amount of air the motor will produce through the venturi.

Formula for Sizing an Industrial Power Blower for your Dust Containment Area

Determine the Air Changes Per Minute. Health or environmental inspectors usually specify the Air Changes Per Minute that they are looking for, usually it is 2 - 3 per minute. To determine the Air Changes Per Minute:

Calculate the Cubic Footage (L x W x H) of your Dust Containment Area. Two examples are as follows:

EXAMPLE NO. 1 Dust Containment Area = 15' x 15' x 10' Cubic Footage = 2,250

Using the 24" Power Blower @ 12,867 CFM (less 20% with Dust Collection Filter Bag & 25' of Flexible Ducting attached) = 10,293 CFM. $10,293 / 2,250 = 4.57$ Air Changes Per Minute In this example, you would need one (1) 24" Industrial Power Blower.

EXAMPLE NO. 2: Dust Containment Area = 25' x 25' x 25' Cubic Footage = 15,625

Again, using the 24" Industrial Power Blower @ 12,867 CFM (less 20% with the Dust Collection Filter Bag & 25' of Flexible Ducting attached) = 10,293 CFM. $10,293 / 15,625 = .65$ Air Changes Per Minute

In this example, you would need 4 to 5 Industrial 24" Power Blowers to properly ventilate your work area.

STANDARD BLOWER FEATURES



Turbo 2000 Shroud

By redesigning the inward curve and the front of the shroud, the Turbo 2000 increases air velocity by up to 30%. The air hitting the ventilation opening is stronger and maintains the "cone of air" farther downwind than previously possible.

Safety Grill

Front and rear safety grills feature a continuous spun wire with eight tie points bars that also support the Turbo 2000 shroud integrity. Meets strict European CE Safety Standards.



AirFlex Composition Impeller

The aerodynamically designed impellers create higher pressure . . . which results in less distortion of the air cone . . . this is critical for effective PPV. Regardless of the motor's horse power, the uniquely designed impeller "wings" deliver maximum air volume (cfm), velocity and pressure from each of our Industrial Power Blowers.

At the heart of the AirFlex Impeller are "wings," which use the aviation "air foil" principle. The air stream is oriented so that the high-pressure side faces outward, delivering more pressure, velocity and cubic feet per minute (CFM). Each impeller is specially designed for each Industrial Power Blower model to maximize the blower's performance.

BLOWER ACCESSORIES

High Efficiency Dust Containment Bag. Ultra fine silica dust containment without premature filter blinding for days of ventilation and containment without cleaning or emptying. Filter media captures the finest of airborne particles to larger debris types such as dirt and paint. Complete with HD 4' zipper & lifting straps, bag is re-useable and washable.



EFFICIENCY RATINGS AS FOLLOWS:

- 85% efficiency @ 0.3 microns (bacteria, carbon black dust, burning wood, silica)
- 90% efficiency @ .05 microns (copier toner, talcom powder)
- 99.96% efficiency @ 2.0 microns (lead dust).

Efficiency / Productivity Performance. APPLICATIONS:

1. JACK HAMMERING & CONCRETE SAWING

- Equipment: (1) 24" Power Blower, 4' x 12' Filter Bag
- Man Power: (5) workers jack hammering & concrete sawing
- Confined Area Size: 35' x 25' x 8' Contained area completely enclosed
- AIRSTREAM Performance:
Inside containment, 90% Clean; Outside containment, 100% Clean; Filter bag was emptied & cleaned after 5 working days.

2. SAND BLASTING

- Equipment: (1) 24" Power Blower, 4' x 12' Filter Bag
Note: The same filter bag was used from the above job (i.e. it wasn't washed).
- Confined Area Size: 35' x 25' x 8' (same as above)
- AIRSTREAM Performance:
Inside containment, 90% Clean; Outside containment, 100% Clean;
Filter bag was cleaned each day with a vacuum, considerably more dust is created when sandblasting compared to saw cutting.

P/N: FIT-BL10Z 4' x 12' \$ 265.00

Ratcheted Tie-Downs

Secure your Dust Containment Bags and Smooth Bore Ducting with these stay in place these ratchet straps. Designed to fit our 16" and 24" blowers with no extra strap length to tuck out of the way. Made of high-quality steel and nylon, with a durable mechanism, these Ratcheted Tie-Downs will come in handy time and again.



P/N: 725-032 Ratchet Tie-Down Strap \$21.00

Misting Ring

The Misting Ring, when attached to any 16" or larger blower, instantly creates a cool mist envelope, lowering the overall temperature of the surrounding air. Ideal for personnel rehabilitation. Can also be used to knock down dust and other suspended particles. Three nozzle sizes available with flow rates from 0.5 to 5.8 gallons-per-hour (1.1 is standard).



P/N 725-049 Misting Ring (one size fits both 16" and 24" Safety Grills) \$280.00

Flex-Tubing

Standard flexible tubing available in sizes from 16" to 24" diameter. Made of heat and corrosion resistant material. Use the ratchet tie down straps to secure the tubing easy to the blower. Multiple sections can be connected for greater lengths. Available in 25' lengths.



P/N: 737-352 16" x 25' Corrugated Flexible Yellow Duct Work, Wire-reinforced \$260.00

P/N: 737-356 24" x 25' Corrugated Flexible Yellow Duct Work, Wire-reinforced \$398.00

HD Stabilizer Connector

Adds versatility to your ventilation: Connect two pieces of Flexible Corrugated Ducting together or attach the 12' Silica Dust Filter Bag to the open end of the corrugated ducting. Additionally, the stabilizer may be attached to the open-end of the ducting to better stabilize or control the ducting as it exhausts air. Each connector requires a ratchet strap for hold the assembly in place.



P/N: 725-087 16" Smooth Bore Stabilizer - Connector \$270.00

P/N: 725-008 24" Smooth Bore Stabilizer - Connector \$310.00