



# Industrial Contractors' Supplies, Inc.

- Dust Director Division -

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[www.DustDirector.com](http://www.DustDirector.com)

## Respiratory Ventilation - Industrial Power Blowers & Accessories



### 16" & 24" Power Blowers

Concrete, Masonry Grinding  
Carbon Monoxide

Demolition Debris & Dust  
Welding Smoke

Economical Dust Collection / Removal



### Heavy-Duty All Weather Debris Containment Bags

- 4.5 x 7' and 15' High Efficiency Filter Collection Bag
- Used indoors or outside and unaffected by the harshest of weather

### The Right Size & Right Motor for Any Size Project

- 16" Industrial Single Speed Power Blower - 3,200 CFM
- 16" & 24" Industrial *Variable Speed* Power Blower - 0 to 15,663 CFM
- All 3 Power Blowers operate from 120V 20A circuit - 12 Amp Draw



### 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 16" Power Blower and its 11,125 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.



## Individual - Pricing, Specifications - Power Blowers



### Square Box EBS-16 Dust Ejector - Single Speed Model

P/N: EBS-16 \$1,090.00

Featuring the AirFlex composite impeller, the EBS-16 is the most powerful 16" 1/3 HP blower available, providing 3,200 CFM. Designed to be used for both positive and negative ventilation. Flexible corrugated and Smooth Bore Ducting can be connect with optional duct adapter ring(s).

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

**Duct Adapter Ring, 16"** - Attaches to both sizes of the 16" Dust Ejector / Blower, complete with hardware. Connect a 25' section of ducting to the intake side of the blower and another section or the 7' or 15' Silica Dust Filter Bag to the exhaust side of the blower using the ring adapters. Adapter dimensions: 18-3/4" OD x 15-1/2" ID x 1.5" Outside Flange Lip. Each ring requires a ratchet strap to secure the ducting or filter bag to the adapter(s).

P/N: 725-042 \$138.00 ea



**16" & 24" Variable Speed Power Blowers - Versatile, Mobile, HD - for both Large & Small Site Ventilation** - The best general-purpose ventilators on the market to ventilate any size job or condition. Heavy-duty shroud increases air velocity for large area ventilation and to attach Smooth Bore and Corrugated Ducting and the 7' and 15' Silica Dust Containment Bag.

Manufactured of 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.

**Variable Speed CFM Dial** - As efficient as the 12' High Efficiency Silica Dust Filter Bag may be, being able to quickly adjust (lower) the CFM on the blowers compensates for a wide variety of variables on the site including: The type and *volume* of debris, from ultra fine powders and fumes, to containment in the filter bag to direct extraction and ventilation to the outside air.

P/N: 700-316, 16" Power Blower, Variable Speed - \$2,960.00

P/N: 700-403, 24" Power Blower, Variable Speed - \$3,470.00

### — POWER BLOWER SPECIFICATIONS —

Model	Size	Motor/HP <sup>1</sup>	Amps <sup>2</sup>	CFM <sup>3</sup>	RPM	Width	Depth	Height	Weight
EBS-16	16"	1/3 TEFC	6.3	3,200	1,736	18.75"	14.25"	19.50"	47 lbs.
700-316	16"	1.5 TEFC	17.0	0 - 11,125	1,736	19.25"	19.25"	21.25"	83 lbs.
700-403	24"	2.0 TEFC	17.0	0 - 15,663	1,736	29.50"	21.00"	30.00"	119 lbs.

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 vs. 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.

<sup>1</sup> **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.

<sup>2</sup> **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.

<sup>3</sup> Amount of air produced through the venturi.

## Ventilation / Containment Kits - 16" & 24" - Free Shipping on Kits

### Complete Ventilation System: Dust / Fume / Odor Control System

The EBS-16K is our most popular ventilation system ~ A+ for a 15' x 15' x 10' Work Area. Provides a simple yet highly effective means of removing dust, fumes or odors from a work area. Place the blower near the source of the contaminants, connect the flexible ducting to the shroud of the blower and join the ducting and the *High Efficiency* Dust Containment Bag together with the included HD Stabilizer.



### 16" Kits (2)

**#EBS16K Ventilation Kit: \$3,980.00 6 Pc. Kit - Equipped as follows:**

- 16" Variable Speed Power Blower, #700-316, providing 0 to 11,125 CFM for fast extraction of powders and fumes
- Variable speed CFM dial quickly compensates for a wide variety of extraction or ventilation requirements - especially helpful when attempting to contain *powder* in the 15" High Efficiency Filter Bag
- Extremely durable and portable blower, just tilt and move the blower anywhere with its 10" rubber wheels.
- 16" x 25' Flexible Ducting - Increases versatility of the complete system
- HD 16" Stabilizer - Provides stability for ducting and the ability to connect sections while increasing the complete system's versatility to handle unique job site conditions. Stabilizers are used to joint or connect ducting and filter collection bags together and/or to stabilize (control) sections of ducting.
- 4.5' x 15' High Efficiency Silica Dust Filter Bag - Completely washable and re-useable with an 11' zipper.
- Ratchet Tie-Down Strap (2) - Secures the ducting and filter bag to the shroud of the blower and to the stabilizer.

**#EBS16KC \$3,270.00 3 Pc. Kit**, includes: Variable Speed 16" Blower, 15' Silica Dust Filter Bag, Ratchet Strap.

### 24" Kits (2)

**#EBS24K Ventilation Kit: \$4,895.00 8 Pc. Kit - Similar to the above EBS-16K, equipped as follows:**

- 24" Variable Speed Power Blower, #700-403, provides 0 to 15,663 CFM
- 300' of Smooth Bore 6 MIL Ducting to be used and cut to the length you need
- HD 24" Stabilizers (2) - Connects, secures, stabilizes sections of ducting and/or 7' and 15' filter collection bags.
- 4.5' x 15' High Efficiency Silica Dust Filter Bag - Completely washable and re-useable with an 11' zipper.
- Ratchet Tie-Down Strap (3) - Secures the ducting and filter bag to the shroud of the blower and Stabilizer.

**#EBS24KC \$4,490.00 6 Pc. Kit** - Identical to the above 8 pc Kit but with (1) less Stabilizer and Ratchet Connection Strap.

### Formula for Sizing an Industrial Power Blower a Dust Containment Area

To determine the air changes per minute health or environmental inspectors usually specify the Air Changes Per Minute, typically it is 2 - 3 per minute. To determine the Air Changes Per Minute, calculate the Cubic Feet (L x W x H) of your area. Two examples are as follows:

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

Using the 16" Power Blower @ 11,125 CFM (less 20% with Dust Collection Filter Bag & 25' of Flexible Ducting attached) = 8,900 CFM.  $8,900 / 2,250 = 3.95$  Air Changes Per Minute. In this example, you would need one (1) 16" Industrial Power Blower.

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

Again, using the 16" Power Blower @ 11,125 CFM (less 20% with the Dust Collection Filter Bag & 25' of Flexible Ducting attached) = 8,900 CFM.  $8,900 / 15,625 = .57$  Air Changes Per Minute. In this example, you would need 4 to 5 Power Blowers to properly ventilate the work area.

## 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.



### 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 Bags.** 85% efficiency @ 0.3 microns (bacteria, carbon black dust, burning wood, silica). 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 zippers (5' and 11'), bags are re-useable and washable.



**Efficiency / Productivity Performance. APPLICATIONS:**

**1. JACK HAMMERING & CONCRETE SAWING**

- Equipment: (1) 24" Power Blower, 4.5' x 15' Filter Bag
- Man Power: (5) workers jack hammering & concrete sawing
- Confided 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, 4.5' x 15' Filter Bag
- Note: The same filter bag was used from the above job (i.e. it wasn't washed).
- Confided 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.

Two Sizes (fits both 16" and 24" PowerBlowers): P/N: 737-500 4.5' x 15' \$ 345.00, P/N: 737-490 4.5' x 7' \$260.00

Made of 100% Cotton Sateen (Canvas, Denim / Blue-Jean type) Material. Providing high volume of both air flow and collection volume. Slightly breathable for air filtration and collection yields. Tapered 30" neck for easy attachment. Note: The maximum air speed that a filter bag can handle (CFM from a blower) is 11,125 CFM (when attached directly to the power blower).

**Ratchet 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 ratchet mechanism.



P/N: 725-032 Ratchet Tie-Down Strap \$33.00

**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

**Air / Debris Ducting**

Heat and corrosion resistant, uses the ratchet tie down straps to secure the tubing to the blower or stabilizer. Multiple sections can be connected for greater lengths (using the stabilizer, below). Made in USA - Single ply PVC vinyl coated fabric reinforced with spring steel wire helix and external PVC wear strips. Great compressibility with an 11:1 compressibility ratio. Listed as UL 94V-0 flame retardant. Shown with included reinforcing cuff.



P/N: 737-354 16" x 25' Corrugated Flexible Yellow Duct Work, Wire-reinforced \$520.00

**Smooth Bore Ducting**

A cost effective way to ventilate greater distances with less friction and velocity loss, compared to corrugated ducting (above). Made of durable 6 mil plastic and treated to reduce static buildup. Smooth bore ducting can be cut to the length you want and taped to cover oversized doorways and openings for PPV applications. The tough, heavy duty plastic will handle your toughest applications: High Quality 6 Mil (.006") for A+ Strength and Durability, Low Industrial Clarity, FDA and USDA Approved, Made from 100% Virgin Raw Materials, Excellent For Puncture, Scuff and Scrape Resistance.



S/N: SB-16700 16" x 500' Roll \$ 440.00 S/N: SB-30300 30" x 300' Roll \$ 390.00

**HD Stabilizer Connector**

Adds versatility to your ventilation: Connect two pieces of Flexible Corrugated Ducting together or attach the 15' 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 to hold the assembly in place.



P/N: 725-087 16" HD Stand-Up Stabilizer - Connector \$347.00  
 P/N: 725-008 24" HD Stand-Up Stabilizer - Connector \$470.00