Dust Collector

ACE INDUSTRIAL PRODUCTS
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OPERATING INSTRUCTIONS & PARTS LIST

Read instructions carefully before attempting to assemble, install, operate, move, inspect or service your dust collector! Retain instructions for future reference.

Description

These dust collectors are designed to help maintain clean, safe conditions around dust creating machines in workshops and factories. The flexible hose included with each unit can be hooked directly onto the dust creating machine. See page 7 for exhaust volumes required for different applications.

⚠ DANGER **None of these Dust Collectors are designed to collect any reactive metal dust such as *Aluminum, Magnesium, Tantalum, Titanium* or *Zirconium.* Collecting these materials can result in a severe explosion and/or fire resulting in death, severe personal injury and extensive property damage. Consult the National Fire Protection Association (NFPA) for NFPA 484; "Standard for Combustible Metals, Metal Powders, and Metal Dusts, 2002 Edition". Also, contact your local Fire Department for assistance.**

Not designed to be used on a system requiring high static pressure. Avoid ducts smaller than 3" diameter as they require high static pressure and restrict air movement.

Do not use to collect hot metal dust; plastic and cloth parts can be ignited.

Unpacking

Carton must be in upright position before opening. Inspect for shipping damage and advise carrier immediately if damaged. Check parts list for missing or damaged parts.

General Safety Information

Read instructions carefully before attempting to assemble, install, operate, move, inspect or service your dust collector! Retain this manual for future reference.

⚠ DANGER ***High voltage electrical power can cause severe injury or death. Always disconnect or lock out from power source and let motor come to a complete stop before inspecting, moving or servicing.***

⚠ WARNING ***High speed rotating equipment can cause severe personal injury. Do not operate the collector unless the filter bag is attached; high speed dust particles exiting from the blower outlet can cause severe eye damage and blindness. Guards must always be in place. Disconnect or lock out from power source and let motor come to a complete stop before inspecting, moving or servicing.***

1. Follow all local electrical and safety codes, as well as National Electrical Codes (NEC), National Fire Protection Association (NFPA) standards and Occupational Safety and Health Act (OSHA). All electrical connections and wiring should be performed only by qualified personnel.
2. Make sure the power source conforms to the requirements of your dust collector motor.
3. Exercise caution when the unit is in operation. There is a high speed blower wheel inside the blower housing and another on the top of the motor. Both can amputate fingers or grab loose clothing or neckties. Always wear safety glasses when operating the dust collector.
4. **THESE DUST COLLECTORS ARE TOP HEAVY, AND CAN BE OVERTURNED IF BUMPED OR NOT PLACED ON A CLEAN LEVEL SURFACE.**

Specifications

Motor HP	Max. CFM (1)	Max. S.P. (2)	dBA @ 5 FT.	Standard Dust Bag			Blower Wheel Dia.	Hose Size	Max. Drum Dia. (4)	Full load amps (5)		Approx. Ship Wt.
				Fabric	Area (Sq. Ft.)	Micron (3)				115 Volt 1 Phase	230 Volt 3 Phase	
1/3	335	3"	76	Cotton Sateen	12.5	10	8"	3"x 60"	20"	5.8	1.8	32
1/2	450	7"	78		12.5	10	9 3/4"	4"x 60"	20"	6.8	1.9	48
3/4	580	7"	78		12.5	10	10 5/8"	4"x 60"	20"	8.8	2.4	53
1	700	4 1/2"	83	Knit Polyester	18.0	5	10 5/8"	5"x 60"	24"	11.2	3.2	72
1 1/2	875	6 1/2"	76		18.0	5	11"	6"x 60"	24"	16.0	4.4	85
2	1100	8 1/2"	85		18.0	5	12 1/4"	6"x 60"	24"	20.0	5.6	97
3	1300	10"	84	Select oversized bag from pages 5 and 6.			13"	6"x 60"	24"	Not available	7.6	113

(1) Maximum CFM at 0" S.P. (clean drum, dust bag and with 5 feet of inlet hose).

(2) Maximum additional static pressure at which point there will be no air flow.

(3) Minimum micron size that standard dust bag will capture.

(4) See "Specific Features For Each Model" in catalog.

(5) Starting amps are approximately 6-7 times the full load amps. High voltage amps are 1/2 of low voltage amps. Amp loads shown above are approximate and vary with different motors.

Assembly

⅓, ½ and ¾ Models (See Figure 1, Page 4)

1. Assembly includes the installation of the air baffle, sealing gasket, discharge bag elbow, dust bag, hose and nozzle.
2. To install the air baffle and sealing gasket, place the unit upside down on a cardboard covered flat area.
   a. Attach the air baffle (13) as shown using included bolts.
   b. Remove the paper protection from the sticky side of the gasket (12) and install on the underside of drum lid/guard assembly (11). Surface should be clean and dry before application.
3. Attach bag elbow, filter bag, hose and nozzle.
   a. Place the unit right-side up on your container and attach the discharge bag elbow (4) on the discharge of the blower as shown in the illustration. Insert and tighten the included sheet metal screws.
   b. Clamp the dust bag (9) on the other end of the elbow using the clamp enclosed (6).
   c. Mount sheet metal reducing adapter (10) to the inlet on top of drum lid/guard assembly using the squeeze lug to secure. (⅓ HP Model only).
   d. Clamp suction hose (7) to reducing adapter or inlet with adjustable clamp (8) provided.
   e. Clamp nozzle (14) to suction hose with clamp (8).

1, 1½, 2 and 3HP Models (See Figure 2, Page 5)

1. Assembly includes the installation of the intake cylinder, deflector elbow, sealing gasket, discharge bag elbow, dust bag, hose and nozzle.
2. To install the intake cylinder, deflector elbow and sealing gasket, place the unit upside down on a cardboard covered flat area.
   a. The deflector elbow (9B) is attached as shown by removing the two nuts installed at the factory.
   b. The intake cylinder (13) is attached as shown using 1/4-20 bolts supplied.
   c. Remove the paper protection from the sticky side of the sealing gasket (11) and install on the underside of the drum lid (10).
3. Attach bag elbow, filter bag, hose and nozzle (except 3HP Model)*.
   a. Place the unit right-side-up on your container and attach the discharge bag elbow (3A) on the discharge of the blower as shown in the illustration. Insert and tighten the included sheet metal screws.
   b. The dust bag is attached to the removable elbow sleeve (3C). (This sleeve slips over the end of the elbow and is held in place with snap-latches.) Clamp the dust bag (8) to the sleeve (3C) using the clamp (14) enclosed.

      IMPORTANT! The edge of the dust bag should be approximately 1/4" below the flange on the sleeve so that the snap-latches can close completely. If the fabric is too close to the flange, the snap-latch will rest on the fabric, and not fully retain the dust bag.

      Slip the 6" diameter O-ring (3B) over the end of the elbow (3A) and seat against the retaining rib. With snap-latches in a raised position, slide the sleeve (3C) with attached bag onto the end of the elbow with a slight twisting motion until tight against the O-ring. Snap the latches down. (To remove the dust bag for emptying, snap up the latches and remove the sleeve; reinstall as above).
   c. Mount the sheet metal reducing adapter (7) on the inlet elbow (9A) using the squeeze lug to secure. (1HP Model only).
   d. Clamp the suction hose (5) to the reducing adapter or inlet elbow using the adjustable clamp (6) provided.
   e. Clamp nozzle (12) to suction hose with clamp (6).

* See page 6 for filter bag attachment for 3HP Model.

Installation

Place the assembled dust collector on the correct diameter drum (not included). **Plastic containers should not be used as they cannot support the weight of the collector.**

Place ⅓, ½, and ¾ HP Models on a container having a diameter of 19½"-20½". This includes 30-gallon galvanized garbage cans, or 30-35 gallon open top steel or fiber drums. Do not use plastic drums.

Place 1, 1½, 2 and 3 HP Models on a container having a diameter range of 23"-24", such as a standard 55-gallon steel or fiber drum. Do not use plastic drums.

Check motor rotation on 3-phase power connections; the cooling fan on the motor should turn clockwise as observed from above. An electrician can correct rotation by interchanging any two (3-phase) power lead wires.

Operation

Attach the dust collector inlet hose directly to the connector built into the dust producing tool. If no built-in connector, position a hose-end mounted nozzle where it will collect the dust. **NOTE:** Check the recommendation of the tool manufacturer for the required CFM air flow. The CFM listed in the specifications for your collector should be greater than the required CFM to ensure dust collection. See page 7.

Empty the dust collection drum when it becomes half full; if too full, all dust will be carried into the dust bag.

Estimate 2 CFM reduction in air flow for each foot of duct; 15 CFM reduction for each 90° curved bend. Pneumatic conveyance of wood dust requires a minimum air velocity of 3500 FPM in the hose or duct; higher for heavier materials. CFM must not be reduced below the level required to provide this air velocity.

Maintenance

⚠ DANGER ***High voltage electrical power can cause severe injury or death. Always disconnect or lock out from power source and let motor come to a complete stop before inspecting, moving or servicing.***

⚠ WARNING ***High speed rotating equipment can cause severe personal injury. Disconnect or lock out from power source and let motor come to a complete stop before inspecting, moving or servicing.***

MOTOR

The bearings on the electrical motor are lubricated and sealed for life, so they need no lubrication during use. Keep the motor clean as excessive dirt may prevent proper cooling. Use no more than 50 psi air to blow off excessive dirt.

⚠ CAUTION ***Wear eye protection while using an air hose for cleaning.***

BLOWER WHEEL AND STEEL COMPONENTS

The cast aluminum blower wheel and steel components are maintenance free and should not require any maintenance during the life of the unit.

If a vibration should develop, it may indicate excessive wear or damage to the blower wheel. In this case, with the motor turned **OFF** and **LOCKED OUT,** inspect the blower wheel. If any damaged or excessively worn areas are noted, replace the blower wheel.

⚠ WARNING ***Do not operate the dust collector with a damaged or severely worn blower wheel. The wheel may disintegrate at operating speed and high speed fragments may cause death or severe personal injury and property damage.***

FILTER BAG (DO NOT REMOVE WHILE UNIT IS RUNNING)

Periodically check the filter bag for worn or damaged areas. Replace the bag if worn or damaged areas are found.

⚠ CAUTION ***Do not operate with a worn or damaged filter bag as escaping dust could lead to respiration (breathing) problems and/or eye damage or blindness.***

If the interior surface of the bag becomes dirty and a noticeable drop-off in air flow develops, the bag may need to be cleaned. Disconnect motor or lock out from power source. Remove the bag and turn inside out. Use low pressure air to dislodge surface dust. If the dust is lodged below the surface, the bag may be washed. Wash using a cold water, gentle cycle, and line dry. If the bag becomes dirty again very quickly, another fabric type may be needed.

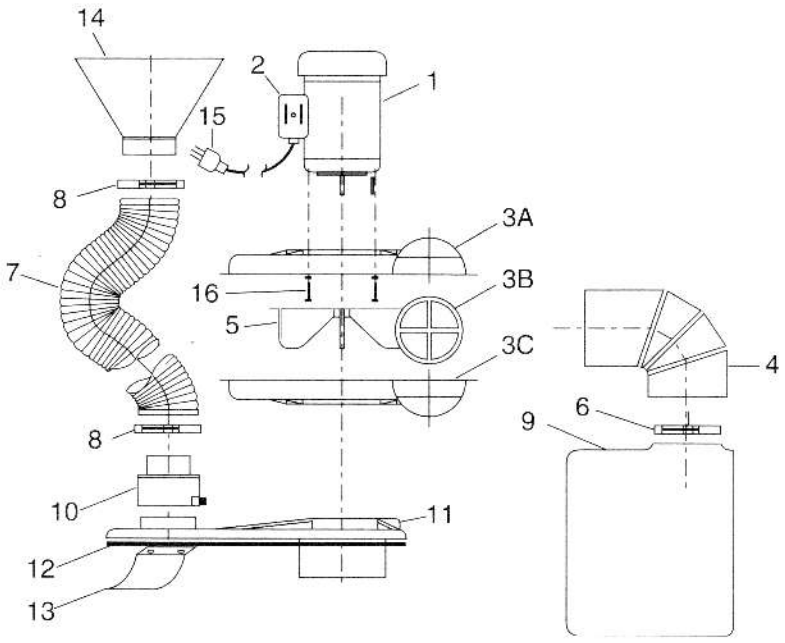
Do not wash felt fabric filter bags which have a surface coating; gently rinse the coating with water.

Troubleshooting Chart

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Unit will not operate.	1. Improper electrical connection.	1. Turn power **OFF** - assure unit is wired per instructions. Check and replace fuse or circuit breaker as needed but **do not oversize for the circuit**.
	2. Blower wheel loose.	2. Turn unit **OFF.** Disconnect power cord. Turn unit over & spin wheel by hand. Reposition and tighten set screws if necessary.*
Low suction or flow rate.	1. Incorrect rotation.	1. Turn unit **OFF** and observe motor cooling wheel rotation as it stops. Rewire correctly if necessary.
	2. Suction hose too long.	2. Place unit closer to dust source and shorten hose.
	3. Dust bag dirty. **(DO NOT REMOVE WHILE UNIT IS RUNNING)**	3. Clean dust bag. Wash cotton or knit filter bags in standard washer, line dry. Do not wash internally coated felt bags; gently rinse coating with clear water. Replace bag if needed.

* Tighten wheel set screws to 165 inch-pounds

Fig. 1



NOTE
Part #3B, #4 and #9 must be in position at all times.

Replacement Parts List for 1/3, 1/2 and 3/4 HP Models

Ref. No.	Qty.	Description	Part Number for Model		
			1/3HP	1/2HP	3/4HP
1	1	**Motor,** 1 Phase, ODP 115/208-230 Volt, 60 Hz.	—	—	37761 (1)(2)
		Motor, 1 Phase, TEFC 115/208-230 Volt, 60 Hz.	37753 (1)	37754 (1)	372193 (1)
		Motor, 3 Phase, TEFC 230/460 Volt, 60 Hz.	37104	37154	37207
		Motor, 1 Phase, EXP 115/230 Volt, 60 Hz.	37102	37152	372009
		Motor, 3 Phase, EXP 230/460 Volt, 60 Hz.	37105	371679	37227
2	1	Switch, 115V. Only	■	■	■
3A-3C	1	Housing, Blower & Guard (3A, 3B & 3C, *See note 3)*	34025DC	34025DC	34025DC
3B	1	Guard, Discharge *(only)*	29330	29330	29330
4	1	Elbow, Bag	51269	51269	51269
5	1	Wheel, Blower	5500102	5500402	5530602
6	1	Clamp, Dust Bag	31379	31379	31379
7	1	Hose, PVC Inlet	31623	31624	31624
8	2	Clamp, Hose & Nozzle	31013	31379	31379
9	1	Bag, Dust (standard)	25035	25035	25035
10	1	Reducer, Inlet (1/3 HP only)	51048	—	—
11	1	Lid / Inlet Guard Assembly	12062	12062	12062
12	1	Gasket, Lid	31069	31069	31069
13	1	Baffle	51078	51078	51078
14	1	Nozzle, Square	51014	51015	51015
15	1	Cord & Plug, 115V. Only	■	■	■
16	4	Bolt, 3/8-16 x 1/2" Hex Head	▲	▲	▲
—	4	Lock washer, 3/8"	▲	▲	▲
—	6	Bolt, 1/4-20 x 3/4" Hex Head	▲	▲	▲
—	14	Lock washer, 1/4"	▲	▲	▲
—	14	Hex Nut, 1/4-20	▲	▲	▲
—	8	Bolt, 1/4-20 x 1/2" Hex Head	▲	▲	▲
—	6	Flat washer, 1/4"	▲	▲	▲

NOTES:

(1) Includes 8 foot cord, switch and 3 prong (grounded) plug for use on 115 Volt, 1 Phase, 60 Hertz ONLY.

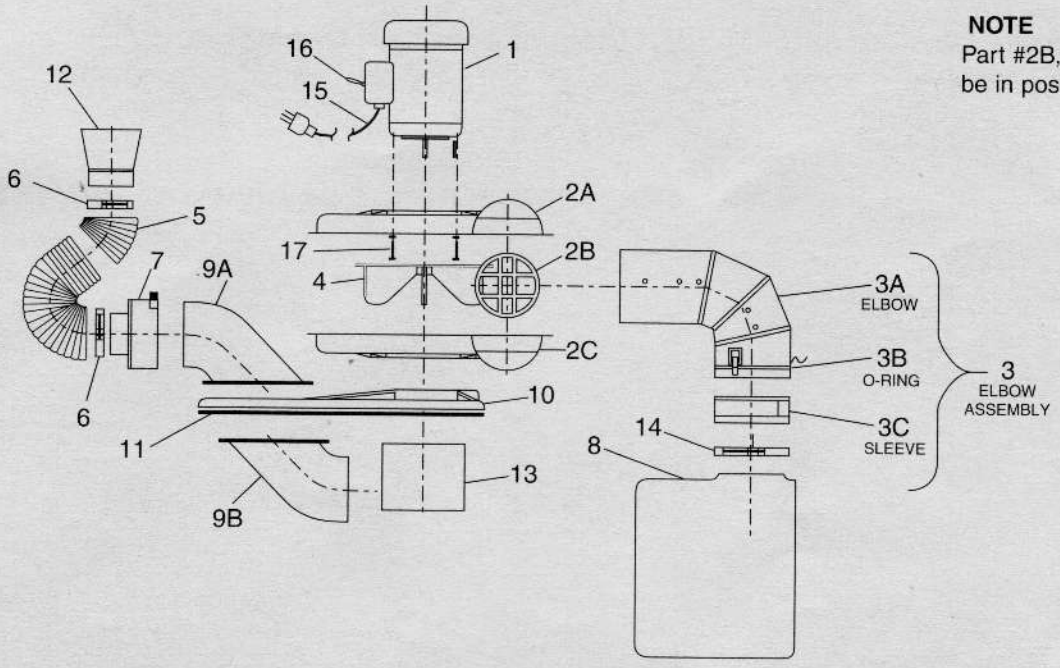
(2) ODP motor for ***old*** 3/4HP Models, with cord plug and switch for 115V. **Will be replaced with P/N 372193 (TEFC motor) at correct price when ODP motor stock runs out.**

(3) P/N includes ***both*** sides of stamped steel housing ***with*** an ABS discharge guard, mounted. This will only be sold as an assembly for liability reasons. Only discharge guard (3B) can be purchased separately.

▲ Standard hardware store items available locally.

■ Order from motor manufacturer, motor distributor or your nearest motor repair shop for that brand motor.

Fig. 2



NOTE
Part #2B, #3 and #8 must be in position at all times.

Replacement Parts List for 1, 1½, 2 and 3HP Models

Ref. No.	Qty.	Description	Part Number for Model			
			1HP	1½HP	2HP	3HP
1	1	**Motor,** 1 Phase, TEFC 115/208-230 Volt, 60 Hz.	37755 (1)	37301	373719	—
		Motor, 3 Phase, TEFC 230/460 Volt, 60 Hz	37254	37304	37353	374155
		Motor, 1 Phase, EXP 115/230 Volt, 60 Hz.	37252	37302	—	—
		Motor, 3 Phase, EXP 230/460 Volt, 60 Hz	3725462	37305	37354	—
2A-2C	1	Housing, Blower & Guard (2A, 2B & 2C, *See note 2)*	34029DC	34029DC	34029DC	34029DC
2B	1	Guard, Discharge (only)	29318	29318	29318	29318
3	1	Snap latch elbow assembly (3A, 3B &3C)	5126402	5126402	5126402	—
4	1	Wheel, Blower	5530602	5500702	5501002	5510304
5	1	Hose, PVC Inlet	31625	31626	31626	31626
6	2	Clamp, Hose & Nozzle	31016	31244	31244	31244
7	1	Reducer, Inlet (1HP only)	51110	—	—	—
8	1	Bag, Dust (standard)	25071	25071	25071	See Page 6
9A & 9B	2	Elbow, Inlet & Deflector	12061	12061	12061	12061
10	1	Lid, Drum	12060	12060	12060	12060
11	1	Gasket, Lid	31070	31070	31070	31070
12	1	Nozzle, Square	51016	51017	51017	51017
13	1	Cylinder, Intake	51074	51074	51074	51074
14	1	Clamp, Dust Bag	31244	31244	31244	See Page 6
15	1	Cord Set, 115V. Only	■	—	—	—
16	1	Switch, 115V. Only	■	—	—	—
17	4	Bolt, 3/8-16 x 1/2" Hex Head	▲	▲	▲	▲
—	4	Lock washer, 3/8"	▲	▲	▲	▲
—	12	Bolt, 1/4-20 x 3/4" Hex Head	▲	▲	▲	▲
—	18	Lock washer, 1/4"	▲	▲	▲	▲
—	18	Hex Nut, 1/4-20	▲	▲	▲	▲
—	6	Bolt, 1/4-20 x 1" Hex Head	▲	▲	▲	▲
—	4	Flat washer, 1/4"	▲	▲	▲	▲

NOTES

(1) Includes 8 foot cord, switch and 3 prong (grounded) plug for use on 115 Volt, 1 Phase, 60 Hertz ONLY.

(2) P/N includes ***both*** sides of stamped steel housing ***with*** an ABS discharge guard, mounted. This will only be sold as an assembly for liability reasons. Only discharge guard (2B) can be purchased separately.

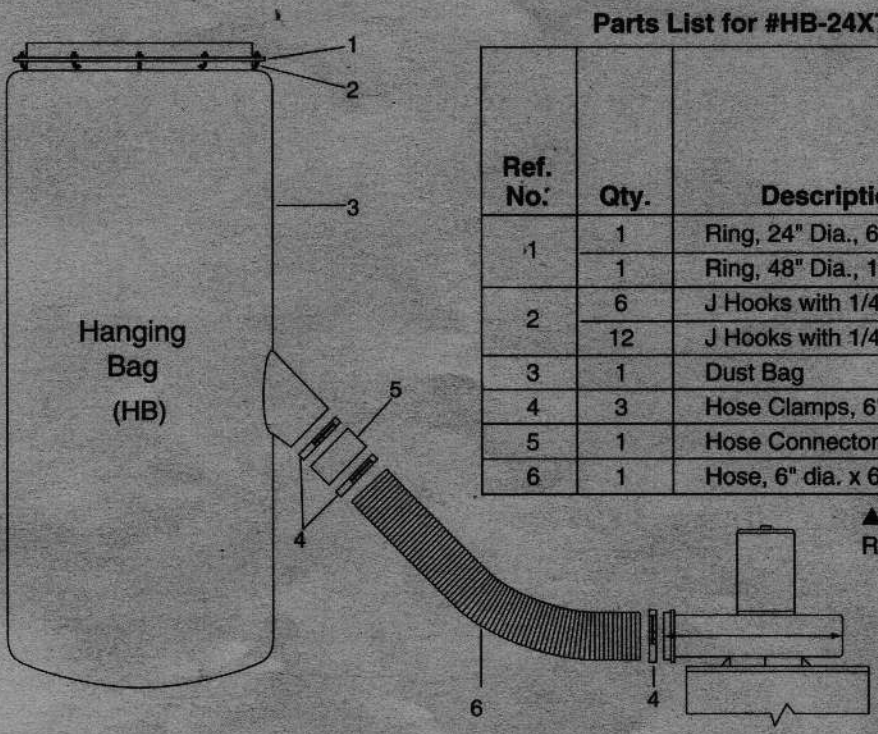
▲ Standard hardware store items available locally.

■ Order from motor manufacturer, motor distributor or your nearest motor repair shop for that brand motor.

Typical Oversized Dust Bag Connection Diagrams for 3HP Models

OPTIONAL FOR ½, ¾, 1, 1½, AND 2HP MODELS

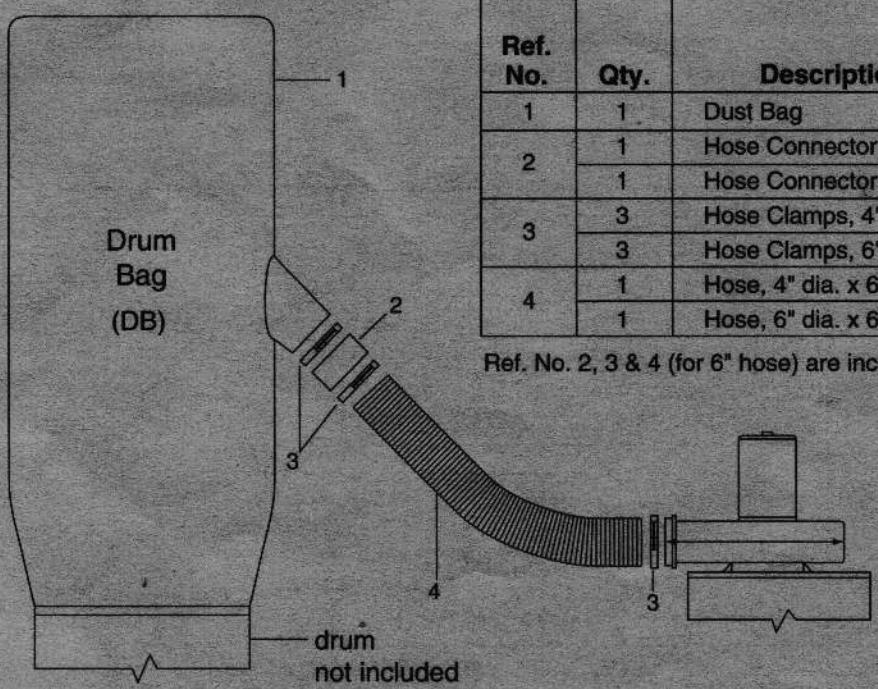
NOTE: DUST BAG FOR 3HP MODEL MUST BE ORDERED WITH THE DUST COLLECTOR



Parts List for #HB-24X72 and #HB-48X72 Hanging Bags

Ref. No.	Qty.	Description	For Dust Collector Models 1HP to 3HP Bag Type #HB-24X72	#HB-48X72
1	1	Ring, 24" Dia., 6 holes	27131	—
	1	Ring, 48" Dia., 12 holes	—	27123
2	6	J Hooks with 1/4-20 nuts	▲	—
	12	J Hooks with 1/4-20 nuts	—	▲
3	1	Dust Bag	Select from product catalog	
4	3	Hose Clamps, 6"	31244	31244
5	1	Hose Connector, 6"	51088	51088
6	1	Hose, 6" dia. x 60" long	31626	31626

▲ Standard hardware store items available locally.
Ref. No. 4, 5 & 6 are included with 3HP Model.



Parts List for #DB-24X36, #DB-24X72 and #DB-48X72 Drum Bags

Ref. No.	Qty.	Description	For Dust Collector Models ½ & ¾HP Bag Type #DB-24X36	1HP to 3HP #DB-24X72	#DB-48X72
1	1	Dust Bag	Select from product catalog.		
2	1	Hose Connector, 4"	51086	—	—
	1	Hose Connector, 6"	—	51088	51088
3	3	Hose Clamps, 4"	31379	—	—
	3	Hose Clamps, 6"	—	31244	31244
4	1	Hose, 4" dia. x 60" long	31623	—	—
	1	Hose, 6" dia. x 60" long	—	31626	31626

Ref. No. 2, 3 & 4 (for 6" hose) are included with 3HP Model.

Exhaust Volumes Required for Different Applications (1)

WOODWORKING			
Equipment	**Size**		**Min. CFM Required (2)**
Jointer	Knife Length =	Up to 6"	350
		6+" to 12"	440
		12+" to 20"	550
		over 20"	800
Sander, Belt (Horizontal)	Belt Width =	Up to 6"	790 (3)
		6+" to 9"	900 (3)
		9+" to 14"	1240 (3)
Sander, Disc	Disc Diameter =	Up to 12"	350
		12+" to 18"	450
		18+" to 26"	550
Sander, Drum	Drum Surface =	Up to 200	350
	(in square inches)	201 to 400	550
		401 to 700	785
		701 to 1400	1100
Saw, Band	Blade Width =	Up to 2"	700 (3)
		2+" to 3"	900 (3)
		3+" to 4"	1350 (3)
Saw, Radial		Hood behind blade =	430
		From port on blade guard =	70
		Total =	500
Saw, Swing	Blade Diameter =	Up to 20"	350
		over 20"	440
Saw, Table	Blade Diameter =	Up to 16"	350
		16+" to 24"	440
		over 24"	550
		Variety with dado =	550
Planer, Single	Knife Length =	Up to 20"	785
		20+" to 26"	1100

METALWORKING			
Equipment	**Size**		**Min. CFM Required (4)**
Buffing, Belt	Belt Width =	Up to 3"	220
		3+" to 5"	300
		5+" to 7"	390
		7+" to 9"	500
		9+" to 11"	610
		11+" to 13"	740
Buffing, Wheel	Wheel Width =	2"	300
	(5)	3"	500
		4"	610
		5"	740
		6"	1040
Grinding Wheel Wheel speeds below 6500 sf/m	Wheel Width =	1"	220
	(5)	1-1/2"	220
		2"	390
		3"	500
		4"	610
		5"	880
		6"	1200
Grinding Wheel Wheel speeds above 6500 sf/m	Wheel Width =	1"	220
	(5)	1-1/2"	390
		2"	610
		3"	740
		4"	880
		5"	1200

Abbreviations used in charts:
CFM = Cubic feet of air per minute
FPM = Feet per minute
sf/m = Surface feet per minute

(1) The exhaust volume (CFM) requirements shown are from the American Conference of Governmental Industrial Hygienists (ACGIH®), *Industrial Ventilation: A Manual of Recommended Practices*, 19th Edition. Copyright 1986. Reprinted with permission. Consult manual for more detailed recommendations. Contact them at www.acgih.org

(2) CFM's required are minimums per each equipment type. Duct velocity should not be less than 3500 FPM to prevent wood dust from settling in duct work.

(3) Requires 2 nozzles or hoods. CFM's shown are total CFM for both nozzles or hoods.

(4) For all metalworking applications, duct velocity should be at least 3500 FPM for light grinding or buffing and at least 4500 FPM for heavy grinding or buffing to prevent settling in duct work.

(5) The wheel hood should cover at least 75% of the wheel to be considered a good enclosure.

How To Select The Proper Size Dust Collector

These dust collectors will give you excellent results in collecting wood chips, fine dust and metal shavings, they are not designed to work in large central system applications. These are portable units that can be moved from machine to machine. To select the proper size Dust Collector, use the criteria below:

1. Add the "CFM REQUIRED" for each machine per the above chart. This is your ***TOTAL*** CFM REQUIRED.
2. Now, select the Dust Collector model from Page 1 with a "Max. CFM" ***greater*** than your TOTAL CFM REQUIRED in step 1. If none of the models on Page 1 have a Max. CFM ***greater*** than your TOTAL CFM required, you will need more than one unit or a larger "central system" or you will need to shut off lines (with dampers) so dust collector is only pulling from one line at a time (see notes 6 and 7 at right).
3. If the unit will be in a "fixed installation" all ductwork should be sheet metal duct instead of flexible hose. The pressure drop through flexible hose is about 2-4 times that of smooth wall pipe. **DO NOT use any PVC or plastic pipe. It *can* deliver a severe static electric shock caused by high velocity dust passing through it.**
4. The Dust Collector should be located as close to the machine as possible and preferably no more than 10 feet away.
5. Use as few elbows as possible in your ductwork. The loss through one, 90° elbow is equal to approximately 10 feet of straight, smooth wall pipe.
6. If the dust collector will be used on more than one machine, you should install slide gate dampers in the duct at ***each*** machine to "close off" that section of duct when using another machine. This will allow the dust collector to pull from only one machine at a time and thus increase the dust collector performance.
7. *Typically*, a 1½HP Model will work with up to 20 total feet of duct work, a model 2HP Model will work with up to 30 total feet of duct work and a 3HP Model will work with up to 75-85 total feet of duct work. These values are based on having dampers at each machine connection (as in note 6 above) and all duct work is smooth wall, sheet metal.

Limited Warranty

The seller warrants products of its own manufacture against defects of material and workmanship under normal use and service for a period of eighteen (18) months from date of shipment or twelve (12) months from date of installation, which ever occurs first. This warranty does not apply to any of Seller's products or any part thereof which has been subject to ordinary wear and tear, accident, abuse, misuse, overloading, negligence or alteration. This warranty does not cover systems or materials not of Seller's manufacture. Expenses incurred by Buyer(s) in repairing or replacing any defective product will not be allowed except where authorized in writing and signed by an officer of the Seller.

The obligation of the Seller under this warranty shall be limited to repairing or replacing F.O.B. Seller's plant, or allowing credit at Seller's options. **THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND OF ALL OTHER OBLIGATIONS AND LIABILITIES OF THE SELLER. THE BUYER ACKNOWLEDGES THAT NO OTHER REPRESENTATIONS WERE MADE TO HIM OR RELIED UPON HIM WITH RESPECT TO THE QUALITY OR FUNCTION OF THE PRODUCT HEREIN SOLD.**

The Seller shall not be liable for any special, direct, indirect or consequential damages to Buyer(s) or anyone else by reason of any loss or any damage to any property or material processed by Buyer(s) with the products or on account of the character or quality of any property or material processed by Buyer(s) with the product. On products furnished by Seller, but manufactured by others, such as motors, Seller extends the same warranty as Seller received from the manufacturer thereof.

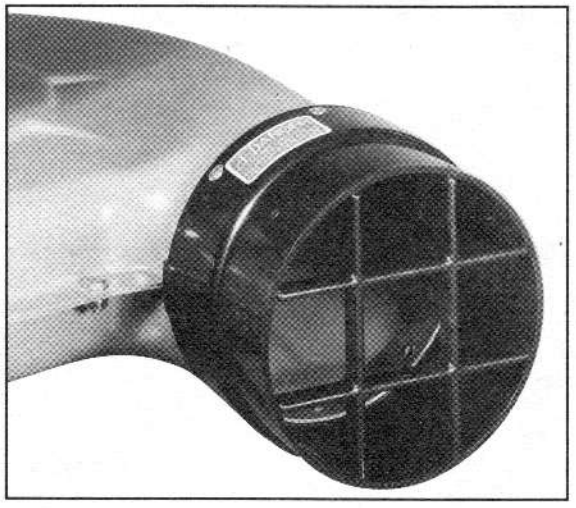
⚠ DANGER ***High voltage electrical power can cause severe injury or death. Always disconnect or lock out from power source and let motor come to a complete stop before inspecting, moving or servicing.***

⚠ WARNING ***High speed rotating equipment can cause severe personal injury. Do not operate the collector unless the filter bag is attached; high speed dust particles exiting from the blower outlet can cause severe eye damage and blindness. Guards must always be in place. Disconnect or lock out from power source and let motor come to a complete stop before inspecting, moving or servicing.***

⚠ DANGER **None of these Dust Collectors are designed to collect any reactive metal dust such as *Aluminum, Magnesium, Tantalum, Titanium* or *Zirconium*. Collecting these materials can result in a severe explosion and/or fire resulting in death, severe personal injury and extensive property damage. Consult the National Fire Protection Association (NFPA) for NFPA 484; "Standard for Combustible Metals, Metal Powders, and Metal Dusts, 2002 Edition". Also, contact your local Fire Department for assistance.**

Safety Guards

All Dust Collectors have a safety guard on the discharge of the blower housing. These guards are for your safety. **Removal of guards for any reason voids warranty and liability. DO NOT OPERATE WITHOUT ALL GUARDS IN PLACE.**



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