



## OPERATING INSTRUCTIONS & PARTS LIST FUME EXHAUSTERS

MODELS EBR and EBM

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

### Description

This Fume Exhauster-Blower is designed for continuous operation to exhaust dirty air or supply fresh air to equipment operators. It is ideal for exhausting fumes and smoke from welding, soldering, brazing and etching operations or to supply fresh air into tanks, manholes and other confined areas.

The frame is ideal for portable or stationary mounting. All units come with a tote handle, inlet nozzle and 10 feet of inlet or discharge hose. Continuous duty, TEFC motors are standard. EXP motors available on most models.

**EBR** models have a cast aluminum wheel and a 14 gauge steel blower housing.

**EBM** models have a forward curve multi-vane, steel wheel and a cast aluminum blower housing.

**EBR** models are AMCA Type B spark resistant. **EBM** models are AMCA Type C spark resistant.



Models EBR



Models EBM

### General Safety Information

**⚠ DANGER** **DO NOT** use this blower in any flammable or explosive atmosphere it was not designed for. Be sure to consult with a Cincinnati Fan Sales Engineer, the National Fire Protection Association (NFPA) or your local fire marshal before using this blower in any flammable or explosive environment or location.

**⚠ DANGER** There is a high speed blower wheel inside the blower housing and a cooling wheel in the end of the motor. Both can amputate fingers or grab loose clothing or neck ties. Also, wear safety glasses when operating this blower. Disconnect or lock out power to the motor and let the motor come to a complete stop before attempting **ANY** inspection, service or moving.

**⚠ DANGER** High voltage electrical power can cause a severe shock and electrocution. Disconnect or lock out power to the motor before attempting **ANY** inspection, service or moving of this blower.

**⚠ DANGER** This blower contains inlet and discharge guards designed for your safety. **NEVER** operate this blower without both guards in place. Should the guards become defective, altered or missing, this blower should **NOT** be used until the guards are replaced. See **NOTE** on page 3.

**⚠ WARNING** Follow all local electrical and safety codes, as well as the 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. Make sure your power source conforms to the power requirements of the blower motor.

**⚠ CAUTION** **DO NOT** locate this blower in a corrosive atmosphere, or where the ambient temperature will exceed 104°F (40°C). **DO NOT** exhaust any air, gas or fumes which can exceed 150°F (66°C).

## Specifications

Model No.	Motor		Max. CFM ①	Max. S.P. ②	Air Velocity (F.P.M.)	dBA @5 Ft.	Material Type		Wheel Size	Inlet & Outlet Size	Hose Size	Nozzle Opening Size	Full Load APMs <sup>③</sup>		Approx. Ship Wt.
	HP	RPM					Housing	Wheel					115 Volt 1 Phase	230 Volt 3 Phase	
EBR-50	1/2	3450	395	5.3"	4524	72	14 Gauge Steel	Cast Alum. Radial	9 x 2 <sup>7</sup> / <sub>8</sub>	4"	4"x120"	4"x 8"	6.8	1.9	62
EBR-75	3/4	3450	660	4.5"	3360	80			9 x 2 <sup>7</sup> / <sub>8</sub>	6"	6"x120"	8"x 8"	8.8	2.4	73
EBR-100	1	3450	785	7.3"	3996	82			11 x 3 BC	6"	6"x120"	8"x 8"	11.2	3.2	77
EBR-150	1 1/2	3450	885	7.9"	4506	83			11 x 2 <sup>3</sup> / <sub>4</sub>	6"	6"x120"	8"x 8"	16.0	4.4	84
EBR-200	2	3450	985	9.8"	5015	85			12 x 2 <sup>7</sup> / <sub>8</sub>	6"	6"x120"	8"x 8"	20.0	5.6	98
EBM-25	1/4	1750	340	1.0"	1731	69	Cast Alum.	Steel Multi-Vane	6.3 x 3.5	6"	6"x120"	8"x 8"	5.4	1.3	53
EBM-75	3/4	1750	910	2.3"	2606	74			8.3 x 4.1	8"	8"x120"	8"x 8"	11.0	3.0	75
EBM-100	1	3450	670	3.7"	3411	69			6.3 x 3.5	6"	6"x120"	8"x 8"	11.2	3.2	64

① Maximum CFM with 10 feet of hose and nozzle on the inlet **or** discharge. **Removing the hose and nozzle will overload the motor.** Airflow will be reduced 5-15 CFM for each **additional** foot of hose or duct and about 15-20 CFM for each 90° elbow.

② Maximum additional static pressure at which point there will be no airflow. SP (static pressure) is measured in inches of water gauge (SPWG).

③ Starting amps are approximately 6-7 times the full load amps. Full load amps shown are for TEFC motors and subject to change with motor types of brands.

### Unpacking

When unpacking the exhauster, carefully inspect for any damage that may have occurred during transit. Check for loose parts, missing parts or damaged parts.

### Assembly

Model EBR and EBM blowers are shipped fully assembled except for the accessory parts.

Standard Accessory Parts:

- (1) 10 foot long hose section
- (2) Hose clamps
- (1) Nozzle

The hose section should be connected to the inlet or the discharge of the blower with one hose clamp. The nozzle should be connected to the hose with a second clamp.

**NOTE:** If you will be installing the hose on the discharge of the blower to blow air, the nozzle is not required. If the hose will be used on the inlet, to exhaust air, the nozzle should be used to maintain the specified CFM.

**⚠ DANGER** This blower contains inlet and discharge guards designed for your safety. **NEVER** operate this blower without both guards in place. Should the guards become defective, altered or missing, this blower should **NOT** be used until the guards are replaced. See **NOTE** on page 3.

### Installation

**Portable:** This unit is equipped with a tote handle for portability. It also has three (3) rubber vibration pads mounted under the base and front support plate. These pads are to help keep the unit stable and prevent movement on fairly uneven surfaces.

**⚠ DANGER** **DO NOT** use this unit to exhaust air from a confined space. This can cause death by asphyxiation. **DO NOT** place or operate **ANY** exhauster/blower inside a tank or confined area that contains, or did contain, any volatile fumes, gases or liquids. A fire and/or explosion can **still** occur. **DO NOT** locate this blower in a corrosive atmosphere, nor where the ambient temperature will exceed 104°F (40°C). **DO NOT** exhaust any air, gas or fumes which can exceed 150°F (66°C).

**Permanent:** If the blower will be mounted in a permanent location, the (3) rubber pads should be removed before bolting the unit to the floor, wall, bench, dolly, etc. Drill out the rivets that hold the rubber pads in place using a 1/8" drill bit. The blower can be installed with the motor in any position, including vertical. The blower should be bolted using 5/16 bolts through the 4 holes in the base and the 2 holes in the front support plate. Use shims to eliminate vibration.

### Operation

#### For exhausting contaminated air:

If you will be using this blower to exhaust contaminated air from an operation such as welding, the fumes collected should be piped to the outside. Locate the unit as close as possible to both the operation and the outside of the building. The airflow will be reduced by about 5-15 CFM for every additional foot of hose or duct installed, not including the 10 foot section of hose supplied with the unit. Each 90° change in air flow direction (as with an elbow) will reduce the airflow approximately 15-20 CFM.

#### SUGGESTED WELDING NOZZLE LOCATIONS<sup>④</sup>

WELDING ZONE	MINIMUM CFM	
	Plain Duct	Flanged Nozzle or Cone Nozzle
Up to 6" from arc or torch	335	250
6" to 9" from arc or torch	755	560
9" to 12" from arc or torch	1335	1000

④ Per American Conference of Governmental Industrial Hygienists in the Industrial Ventilation Manual of Recommended Practices.

#### For supplying fresh air:

This blower can also be used to blow fresh air into a confined work space such as a tank or man hole.

**⚠ DANGER** It is the responsibility of the operator/user to ensure that sufficient ventilation (airflow) will be supplied and the air supply hose will be positioned in accordance with all applicable safety codes governing the use of a blower being used to supply fresh air to a confined area. **IN NO CASE SHOULD THE BLOWER BE INSTALLED OR PLACED INSIDE THE CONFINED AREA THAT IS TO BE VENTILATED.**

## Maintenance

### ELECTRICAL

All models with 1 Phase, TEFC motors (up to 1 HP) come with an 8 foot power cord, plug and on-off switch pre-wired for operating on a 115 Volt, 1 Phase, 60 Hertz power supply. The following motors will require the customer or user to supply, and install, all required electrical wiring and switches:

- All 1 phase motors, 1-1/2 HP or larger.
- All 3 phase motors.
- All EXP (Explosion Proof) motors.
- All motors for operation on a 50 Hertz power supply.
- Any special motors required by customers specifications.

**⚠ WARNING** It is the purchasers or users responsibility to follow all local electrical and safety codes, and the National Electric Codes (NEC), National Fire Protection Association (NFPA) standards and Occupational Safety and Health Act (OSHA) when supplying and installing any electrical connections to the blower motor. All electrical connections and wiring should be performed **ONLY** by qualified personnel. Make sure your power source conforms to the power requirements of the blower motor.

### MAINTENANCE

**Motor:** Keep the motor clean as excessive dirt or dust will prevent the motor from properly cooling itself. Use no more than 40 psi air to blow off motor. Keep motor dry. The bearings in the motor are sealed for life and do not require any additional lubrication.

**⚠ CAUTION** **ALWAYS** wear eye protection when blowing off motor.

**Blower wheel and steel components:** The blower housing and steel components are maintenance free and should not require any maintenance during the life of the blower. If an abnormal vibration should develop, it may indicate excessive wear or damage.

**⚠ DANGER** Never operate a blower with a damaged or severely worn blower wheel. The wheel may disintegrate at the normal operating speed and high speed fragments may cause property damage, severe personal injury and death.

If you do start experiencing abnormal vibration, turn off and lock out power to the motor **BEFORE** you attempt **ANY** type of inspection of the blower assembly.

If the blower wheel has become excessively dirty, it should be removed from the blower housing and cleaned. After cleaning, remove the 2 set screws that hold the wheel on the motor shaft and discard them. Never use set screws more than once. Use only knurled, cup-point set screws with a locking patch. After cleaning, the balance of the wheel **MUST** be checked **BEFORE** re-installing the wheel onto the motor shaft.

After re-installing the blower wheel and housing, the inlet and discharge guards **MUST** be replaced. **NEVER** operate the blower without the guards in place.

### NOTE:

If the inlet and/or discharge guards should become defective, broken or lost, please immediately contact us or our local sales office, for your area, for **FREE** replacement guards. *The serial number on the blower nameplate is required to get free replacement guards.*

## Troubleshooting Chart

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Exhauster will not start.	<ol style="list-style-type: none"> <li>Blown fuse or circuit breaker. Fuse or circuit breaker too small.</li> <li>Low line voltage.</li> <li>Material wedged between wheel and housing.</li> <li>Defective switch.</li> <li>Defective motor.</li> </ol>	<ol style="list-style-type: none"> <li>If blown, replace fuse or reset breaker. If too small, replace with a higher amperage rating.</li> <li>If power supply voltage is more than 10% less than the motor nameplate voltage, check size of wiring from main switch to motor. If wire size is sufficient, contact your power company.</li> <li>Disconnect or lock out power to motor. Remove material that may be wedged between wheel and housing.</li> <li>Replace switch</li> <li>Replace motor.</li> </ol>
Low Flow.	<ol style="list-style-type: none"> <li>Wrong motor rotation.</li> <li>Excessive lengths of hose.</li> </ol>	<ol style="list-style-type: none"> <li>Rewire for proper rotation. For 3 Phase, interchange two of the power leads.</li> <li>Test air flow with less hose. Relocate blower as needed.</li> </ol>
Blowing fuses or circuit breaker.	<ol style="list-style-type: none"> <li>Defective plug, cord or switch.</li> <li>Faulty internal wiring.</li> </ol>	<ol style="list-style-type: none"> <li>Replace defective part.</li> </ol>

## REPLACING THE MOTOR AND/OR BLOWER WHEEL ON "EBR" MODELS

(To replace a motor and/or wheel on "EBM" models, see page 5)

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Required tools: 7/16" Wrench and socket      Soft faced mallet  
9/16" Wrench or socket                      Flat screw driver  
5/32" Allen wrench                            Putty knife  
(2) Flat pry bars                                Tube of silicone

1. **The Exhauster/Blower motor must be completely disconnected from the power source BEFORE proceeding with the following steps.**
  2. Disconnect any hose that is connected to the inlet and/or the discharge of the blower.
  3. Remove the screws that hold the guard onto the discharge of the blower housing. **Keep these screws.**
  4. Using a 7/16" socket and wrench, remove the nuts and bolts that hold the two blower housing halves together.
  5. This step should be completed by 2 people. One, to pry the housing halves apart and one to hold the inlet side of the housing so it doesn't fall and cause an injury. Pry the housing halves apart using a screw driver and mallet if necessary. Start at the discharge and work your way around the housing halves.
  6. After you have removed the two housings halves from each other, use a putty knife to remove the silicone sealant from the housing halves.
  7. There are two (2) set screws in the hub of the blower wheel. Use a 5/32" Allen wrench to loosen the set screws.  
NOTE: If you are replacing the blower motor and not the blower wheel, you will need to remove the 2 set screws in the wheel and replace them. **NEVER USE SET SCREWS MORE THAN ONE TIME.** You will need to replace them with 5/16-18 set screws that have a knurled cup point and a nylon locking patch on the side. If you are replacing the blower wheel, the new wheel will have new set screws already installed.
  8. Measure the location of the blower wheel hub on the motor shaft. **Write it down for future reference.**
  9. After removing the wheel set screws, place two pry bars behind the back plate of the wheel. Locate the pry bars 180° apart and behind the wheel where the blades meet the back plate of the wheel. This location will give you the best leverage to pry the wheel off of the motor shaft. Gently pry the wheel off of the motor shaft.
  10. After removing the blower wheel, check it for any deformities or cracks. If the wheel has **ANY** cracks, **IT MUST BE REPLACED.** If the wheel has no cracks, clean any excessive dirt from the wheel and install the new set screws.
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- 11A. If you are replacing the blower wheel and not the motor, PROCEED TO STEP 12A below.**  
**B. If you are replacing the motor and not the blower wheel, PROCEED TO STEP 12B below.**  
**C. If you are replacing both the blower wheel and the motor, PROCEED TO STEP 12B below.**
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- 12A. Use a file and emery paper to file down the set screw marks on the motor shaft.
  - 13A. Install the new wheel onto the motor shaft so the keyways in the wheel and the motor shaft are lined up.
  - 14A. Make sure the blower wheel hub is in the same location on the motor shaft as you measured in **STEP 8** above.
  - 15A. Install a new 3/16" square key into the keyway of the wheel and motor shaft.
  - 16A. Spin the wheel by hand to make sure the wheel is not rubbing against the back of the blower housing. It should turn very freely.
  - 17A. Tighten the set screw over the key **FIRST**, to 165 inch pounds. Now, tighten the set screw onto the motor shaft to 165 inch pounds.
  - 18A. Repeat **STEP 16A** above.
  - 19A. Apply a bead of silicone sealant to the inlet side of the housing lip.
  - 20A. Holding the inlet side of the housing against the motor side of the housing, re-install all the 1/4" bolts and nuts that hold the 2 halves together. Make sure the two housing halves are lined up at the blower discharge and tighten the nuts and bolts.
  - 21A. **VERY CAREFULLY**, reach into the blower discharge and spin the wheel to make sure it is not rubbing on the inlet side of the housing. If it is, go back to **STEP 14A** above.
  - 22A. Re-install the guard onto the discharge of the blower using the screws you removed in **STEP 3** above.
  - 23A. Reconnect power to the motor and turn ON and OFF. Check for any unusual noise and proper rotation of the blower. The blower should be turning clockwise (CW) when looking over the back of the motor, **NOT** looking in the inlet of the blower.
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- 12B. Using a 9/16" socket or wrench, remove the 4 bolts that hold the motor side of the blower housing onto the motor. Be careful the blower housing or motor do not fall and cause an injury during this step.
  - 13B. Slide the aluminum shaft collar off of the motor shaft. Keep this collar.
  - 14B. Slide the shaft collar (from **STEP 13B**) onto the shaft of the new motor. (This collar is required for AMCA Type B spark resistance.)
  - 15B. Re-install the new motor onto the blower housing and re-install the four bolts and washers you removed in **STEP 12B** above. Now, tighten the bolts.
  - 16B. Go back to **STEPS 12A - 23A** above to complete the re-assembly.
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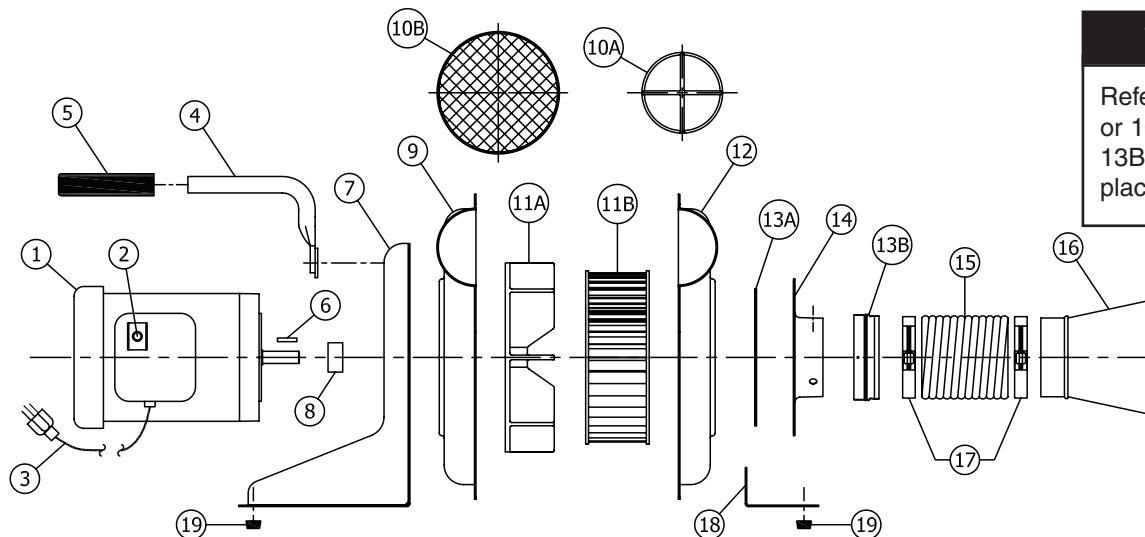
## REPLACING THE MOTOR AND/OR BLOWER WHEEL ON "EBM" MODELS

(To replace a motor and/or wheel on "EBR" models, see page 4)

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Required tools: 7/16" Wrench and socket      Soft faced mallet  
9/16" Wrench or socket                      Flat screw driver  
5/32" Allen wrench                              Putty knife  
(2) Flat pry bar                                  Tube of silicone

1. **The Exhauster/Blower motor must be completely disconnected from the power source BEFORE proceeding with the following steps.**
  2. Disconnect any hose that is connected to the inlet and/or the discharge of the blower.
  3. Remove the screws that hold the guard onto the discharge of the blower housing. **Keep these screws.**
  4. Using a 7/16" socket and wrench, remove the nuts and bolts that hold the two blower housing halves together.
  5. This step should be completed by 2 people. One, to pry the housing halves apart and one to hold the inlet side of the housing so it doesn't fall and cause an injury. Pry the housing halves apart using a screw driver and mallet if necessary. Start at the discharge and work your way around the housing halves.
  6. After you have removed the two housings halves from each other, use a putty knife to remove the silicone sealant from the housing halves.
  7. There are two (2) set screws in the hub of the blower wheel. Use a 5/32" Allen wrench to loosen the set screws.  
NOTE: If you are replacing the blower motor and not the blower wheel, you will need to remove the 2 set screws in the wheel and replace them. **NEVER USE SET SCREWS MORE THAN ONE TIME.** You will need to replace them with 5/16-18 set screws that have a knurled cup point and a nylon locking patch on the side. If you are replacing the blower wheel, the new wheel will have new set screws already installed.
  8. Measure the location of the blower wheel hub on the motor shaft. **Write it down for future reference.**
  9. After removing the wheel set screws, place a pry bar in between the housing and the back plate of the wheel. Locate the pry bar as close to the wheel hub as possible. This location will give you the best leverage to pry the wheel off of the motor shaft. Gently pry the wheel off of the motor shaft.
  10. After removing the blower wheel, check it for any deformities or cracks. If the wheel has **ANY** cracks, **IT MUST BE REPLACED.** If the wheel has no cracks, clean any excessive dirt from the wheel and install the new set screws.
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- 11A. **If you are replacing the blower wheel and not the motor, PROCEED TO STEP 12A below.**  
B. **If you are replacing the motor and not the blower wheel, PROCEED TO STEP 12B below.**  
C. **If you are replacing both the blower wheel and the motor, PROCEED TO STEP 12B below.**
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- 12A. Use a file and emery paper to file down the set screw marks on the motor shaft.
  - 13A. Install the new wheel onto the motor shaft so the keyways in the wheel and the motor shaft are lined up.
  - 14A. Make sure the blower wheel hub is in the same location on the motor shaft as you measured in **STEP 8** above.
  - 15A. Install a new 3/16" square key into the keyway of the wheel and motor shaft.
  - 16A. Spin the wheel by hand to make sure the wheel is not rubbing against the back of the blower housing. It should turn very freely.
  - 17A. Tighten the set screw over the key **FIRST**, to 165 inch pounds. Now, tighten the set screw onto the motor shaft to 165 inch pounds.
  - 18A. Repeat **STEP 16A** above.
  - 19A. Apply a bead of silicone sealant to the inlet side of the housing lip.
  - 20A. Holding the inlet side of the housing against the motor side of the housing, re-install all the 1/4" bolts and nuts that hold the 2 halves together. Make sure the 2 housing halves are lined up at the blower discharge and tighten the nuts and bolts.
  - 21A. **VERY CAREFULLY**, reach into the blower discharge and spin the wheel to make sure it is not rubbing on the inlet side of the housing. If it is, go back to **STEP 14A** above.
  - 22A. Re-install the guard onto the discharge of the blower using the screws you removed in **STEP 3** above.
  - 23A. Reconnect power to the motor and turn ON and OFF. Check for any unusual noise and proper rotation of the blower. The blower should be turning clockwise (CW) when looking over the back of the motor, **NOT** looking in the inlet of the blower.
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- 12B. Using a 9/16" socket or wrench, remove the 4 bolts that hold the motor side of the blower housing onto the motor. Be careful the blower housing or motor do not fall and cause an injury during this step.
  - 13B. Re-install the new motor onto the blower housing and re-install the four bolts and washers you removed in **STEP 12B** above. Now, tighten the bolts.
  - 14B. Go back to **STEPS 12A - 23A** above to complete the re-assembly.
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**WARNING!**  
Reference parts 10A or 10B and 13A or 13B **MUST** be in place at all times.

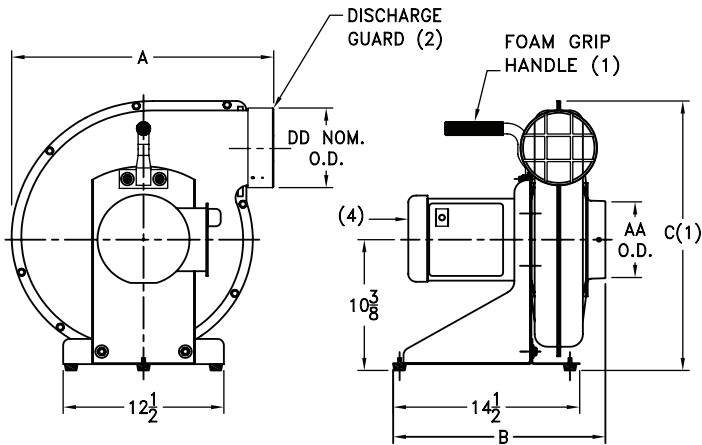
**Replacement Parts List**

Ref. No.	Qty. per Unit	Description	Part Number for Model							
			EBR-50	EBR-75	EBR-100	EBR-150	EBR-200	EBM-25	EBM-75	EBM-100
1	1	Motor, 1 Phase, TEFC 115/208-230 Volt, 60 Hz.	37754 ①	372193 ①	37755 ①	37301	373503	37097 ①	372046 ①	37755 ①
		Motor, 3 Phase, TEFC 208-230/460 Volt, 60 Hz.	37154	372160	3725456	373185	37353	370541	372161	3725456
		Motor, 1 Phase, EXP 115/230 Volt, 60 Hz. (2)	37152 ②	372009 ②	37252 ②	373118 ②	N/A —	370576 ②	37202 ②	37252 ②
		Motor, 3 Phase, EXP 230/460 Volt, 60 Hz. (2)	371679 ②	372169 ②	3725462 ②	3790407 ②	373642 ②	370577 ②	372170 ②	3725462 ②
2	1	Switch; for 115V,TEFC only	③	③	③	—	—	③	③	③
3	1	Cord/plug; for 115V, TEFC only	③	③	③	—	—	③	③	③
4	1	Tote handle	03018-A9	03018-A9	03018-A9	03018-A9	03018-A9	03018-A9	03018-A9	03018-A9
5	1	Foam handle grip	31738	31738	31738	31738	31738	31738	31738	31738
6	1	Key, 3/16" square	③	③	③	③	③	③	③	③
7	1	Base	03019-A1	03019-A1	03019-A1	03019-A1	03019-A1	03019-A1	03019-A1	03019-A1
8	1	Motor shaft collar for AMCA B	31694	31694	31694	31694	31694	—	—	—
9	1	Housing; Motor side, CW	34025	34029	34029	34029	34029	33073	33079	33073
10A	1	Discharge guard	—	29318	29318	29318	29318	—	—	—
10B	1	Discharge guard	51381	—	—	—	—	51382	51383	51382
11A	1	Blower wheel, C.A. Radial	5500202	5500202	5509802	5500702	5500902	—	—	—
11B	1	Blower wheel, steel multi-vane	—	—	—	—	—	55528	55533	55528
12	1	Housing; Inlet side, CW	34026	34030	34030	34030	34030	33074	33080	33074
13A	1	Inlet guard	29124	29125	29125	29125	29125	—	—	—
13B	1	Inlet guard	—	—	—	—	—	51382	51383	51382
14	1	Inlet collar	26139	26142	26142	26142	26142	Part of Ref.#12		
15	1	Hose, 10 foot long	31628PP	31629PP	31629PP	31629PP	31629PP	31629PP	31630PP	31629PP
16	1	Nozzle	51012	51030	51030	51030	51030	51030	51031	51030
17	2	Hose clamp	31379	31244	31244	31244	31244	31244	31019	31244
18	1	Front support	03018-A8	03018-A8	03018-A8	03018-A8	03018-A8	03018-A8	03018-A8	03018-A8
19	3	Rubber vibration pads	31043	31043	31043	31043	31043	31043	31043	31043

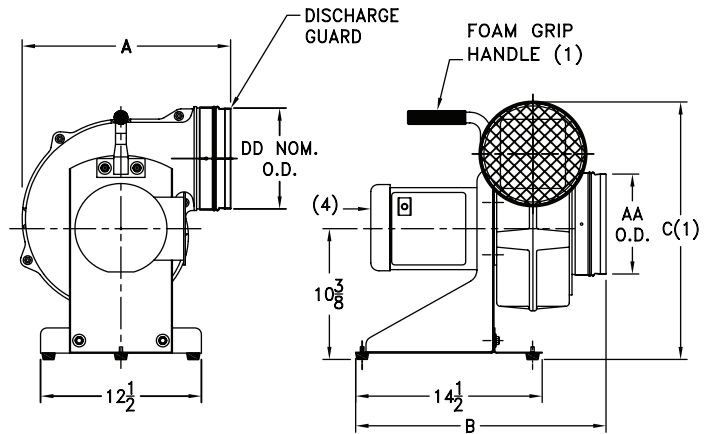
NOTE: All nuts, bolts, flat washers and lock washers used on these blowers are available from your local hardware store. All non-metric.

- ① Includes 8 foot cord, plug and switch (Ref. Parts 2 and 3). Plug is 3 prong, grounded for use on 115 Volt, 1 phase, 60 Hertz ONLY.
- ② These EXP motors are rated for Division 1, Class I-Group D and Class II-Groups F&G, with a T3C Temperature Code. Motors have a 1.00 Service Factor and some type of Thermal Overload Protection. Normally, it is an Automatic Thermal Overload.
- ③ Order from your local motor distributor, motor repair shop or electrical supply house for the motor brand you have.

# DIMENSIONS



MODELS EBR-50 THRU EBR-200



MODELS EBM-25, EBM-75 AND EBM-100

**Notes:**

- (1) On Models EBR-50, EBM-25 and EBM-100, the tote handle extends above the "C" Dimension.
- (2) Model EBR-50 has the same type discharge guard as the EBM models.
- (3) These models (with 1 phase, 60 Hz., TEFC motors only) include an on/off switch, 8-foot cord and 3-prong plug prewired for 115 volts.
- (4) Length of motor may extend past end of base on some models.

MODEL NO.	AA	DD	A	B	C
EBR-50 (3)	4	4	17 <sup>1</sup> / <sub>2</sub>	16	18 <sup>3</sup> / <sub>4</sub>
EBR-75 (3)	6	6	21 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	21 <sup>3</sup> / <sub>8</sub>
EBR-100 (3)	6	6	21 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	21 <sup>3</sup> / <sub>8</sub>
EBR-150	6	6	21 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	21 <sup>3</sup> / <sub>8</sub>
EBR-200	6	6	21 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	21 <sup>3</sup> / <sub>8</sub>
EBM-25 (3)	6	6	13 <sup>3</sup> / <sub>4</sub>	18 <sup>1</sup> / <sub>4</sub>	17 <sup>7</sup> / <sub>8</sub>
EBM-75 (3)	8	8	16 <sup>1</sup> / <sub>4</sub>	19 <sup>3</sup> / <sub>8</sub>	20 <sup>1</sup> / <sub>2</sub>
EBM-100 (3)	6	6	13 <sup>3</sup> / <sub>4</sub>	18 <sup>1</sup> / <sub>4</sub>	17 <sup>7</sup> / <sub>8</sub>

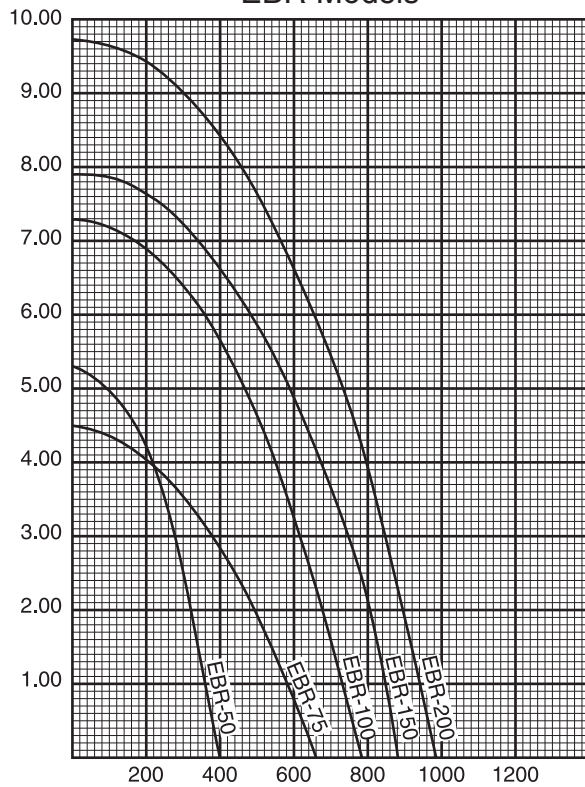
# PERFORMANCE CURVES

*Fume Exhauster-Blower performance was derived from data as tested per AMCA Standard 210.*

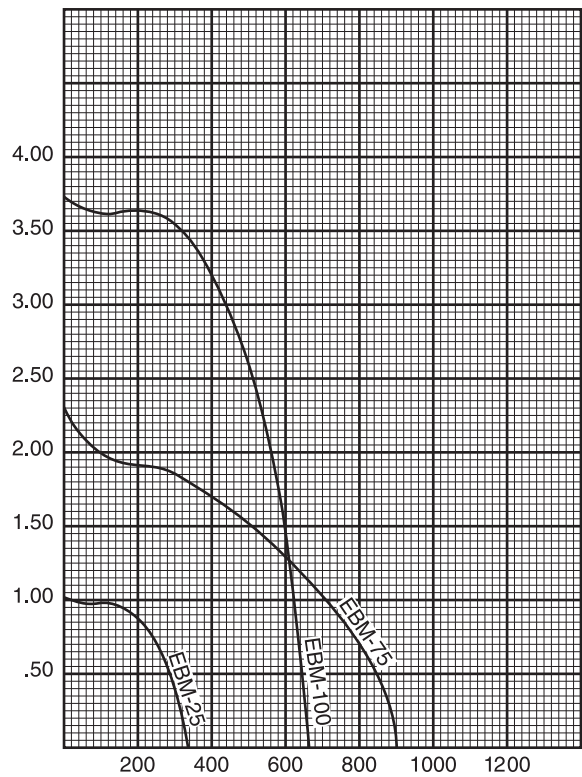
*All models were tested with 10 feet of flexible hose and a nozzle mounted on the inlet, and with inlet and discharge guards installed.*

*Maximum 150°F operating temperature.*

**EBR Models**



**EBM Models**



## **IX. LIMITED WARRANTY:**

Cincinnati Fan & Ventilator Company (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, whichever occurs first. This warranty does not apply to any of Seller's products or any part thereof which has been subject to extraordinary wear and tear, improper installation, accident, abuse, misuse, overloading, negligence or alteration. This warranty does not cover systems or materials not of Seller's manufacture. On products furnished by Seller, but manufactured by others, such as motors, Seller extends the same warranty as Seller received from the manufacturer thereof. Expenses incurred by Purchaser'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. the Seller's plant, or allowing credit at Seller's option. **THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND OF ALL OTHER OBLIGATIONS AND LIABILITIES OF THE SELLER. THE PURCHASER ACKNOWLEDGES THAT NO OTHER REPRESENTATIONS WERE MADE TO PURCHASER OR RELIED UPON BY PURCHASER WITH RESPECT TO THE QUALITY OR FUNCTION OF THE PRODUCTS HEREIN SOLD.**

Removal of the Sellers nameplate or any generic fan nameplate containing the fan serial number voids all warranties, either written or implied. Failure to complete and document all the pre-startup and post startup checks and perform the suggested routine maintenance checks voids all warranties, either written or implied.

## **LIMITATION OF LIABILITY:**

Notice of any claim, including a claim for defect in material or workmanship, must be given to Seller in writing within 30 days after receipt of the equipment or other products. Seller reserves the right to inspect any alleged defect at Purchaser's facility before any claim can be allowed and before adjustment, credit, allowance replacement or return will be authorized. See **RETURNS** below. Seller's liability with respect to such defects will be limited to the replacement, free of charge, of parts returned at Purchaser's expense F.O.B. Seller's plant and found to be defective by the Seller.

**IN NO EVENT WILL SELLER BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER IN CONTACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, INCLUDING WITHOUT LIMITATION DAMAGES FOR INJURY TO PERSONS OR PROPERTY, LOST PROFITS OR REVENUE, LOST SALES OR LOSS OF USE OF ANY PRODUCT SOLD HEREUNDER. PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST SELLER WILL BE THE REPLACEMENT OF DEFECTIVE PARTS AS PROVIDED HEREIN OR REFUND OF THE PURCHASE PRICE FOR DEFECTIVE PRODUCTS, AT SELLER'S SOLE OPTION. SELLER'S LIABILITY ON ANY CLAIM, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, FOR ANY LOSS OR DAMAGE ARISING OUT OF OR IN CONNECTION WITH PURCHASER'S ORDER OR THE PRODUCTS OR EQUIPMENT PURCHASED HEREUNDER, SHALL IN NO CASE EXCEED THE PURCHASE PRICE OF THE EQUIPMENT GIVING RISE TO THE CLAIM.**

## **RESPONSIBILITY:**

It is the understanding of the Seller that Purchaser and/or User will use this equipment in conjunction with additional equipment or accessories to comply with all Federal, State and local regulations. The Seller assumes no responsibility for the Purchaser's or Users compliance with any Federal, State and local regulations.

## **RETURNS:**

Cincinnati Fan & Ventilator Company assumes no responsibility for any material returned to our plant without our permission. An **RMA** (Return Material Authorization) number must be obtained and clearly shown on the outside of the carton or crate and on a packing slip. Any items returned must be shipped freight prepaid. Failure to comply will result in refusal of the shipment at our receiving department.

### **DISCLAIMER**

This manual, and all its content herein, is based on all applicable known material at the time this manual was created. **Any parts of this manual are subject to change at any time and without notice.**

If any statements, diagrams and/or instructions contained herein, **for components not manufactured by the Seller**, conflict with instructions in the manufacturer's manual (i.e.: motors), the instructions in the manufacturer's manual, for that component takes precedent.

Should you want the latest version of this manual, please contact us or our sales office for your area. Or, you can print a current version by going to our website at: **[www.cincinnati-fan.com](http://www.cincinnati-fan.com)**



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