



1hp High-Pressure Blower Assembly & Operations Manual



In most cases, where there is a KLEENair attached to a dryer, we recommend a 3HP Blower Kit. The 1HP Blower Kit is recommended as an Aspirator only (to suck off bee's wings), or with the 8" Basic KLEENair.

Rotation of motor & wheel on KLEENair Blower



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Introduction

General Information

READ THIS MANUAL carefully to learn how to properly use and install equipment. Failure to do so could result in personal injury or equipment damage.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your equipment and should be easily accessible when needed.

Receiving Merchandise and Filing Claims

INSPECT the shipment immediately upon arrival. The customer is responsible for ensuring that all quantities are correct. Report any damage or shortages by recording a detailed description on the bill of lading to justify the claim from the transport firm. When receiving merchandise, it is important to check both the quantity of parts and their descriptions with the packing list enclosed within each package. All claims for freight damage or shortage must be made by the consignee within ten (10) days from the date of the delivery. The consignee should accept the shipment after noting the damage or loss.

Capacity

A. The capacities may vary greatly under varying conditions. The following factors play a role in the performance of the KLEENair Vacuum Grain Screener.

- Speed/rpm
 - Angle of operation
 - Moisture content
 - Amount of foreign matter
 - Different materials
 - Methods of feeding
-

Safety

Safety Instructions

Our foremost concern is your safety and the safety of others associated with this equipment. We want to keep you as a customer. This manual is to help you understand safe operating procedures and some problems which may be encountered by the operator and other personnel.

As owner and/or operator, it is your responsibility to know what requirements, hazards and precautions exist, and to inform all personnel associated with the equipment or in the area. Safety precautions may be required from the personnel. Avoid any alterations to the equipment. Such alterations may produce a very dangerous situation where **SERIOUS INJURY** or **DEATH** may occur.

This equipment shall be installed in accordance with the current installation codes and applicable regulations which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installations are made.

Follow Safety Instructions

Carefully read all safety messages in this manual and safety signs on your machine. Keep signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from the manufacturer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machinery in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and effect machine life.

If you do not understand any part of this manual or need assistance, contact your dealer.

Operate Motor Properly

To avoid serious injury or death, stay away from unit and make sure everyone is clear of the equipment before starting or operating the unit.

All electrical connections should be made in accordance with the National Electric Code. Be sure equipment and bins are properly grounded.

Do not operate electric motor equipped units until motors are properly grounded.

Disconnect power on electrical driven units before resetting motor overloads.

Do not repetitively stop and start the drive in order to free a plugged condition. Jogging the drive in this manner can damage the equipment and/or drive components.



Read and Understand
Manual



Electric Shock Hazard

Safety Continued

Operate Unload Equipment Properly

- Untrained operators subject themselves and others to **SERIOUS INJURY** or **DEATH**. **NEVER** allow untrained personnel to operate this equipment.
- **NEVER** work alone.
- Keep children and other unqualified personnel out of the working area at **ALL** times.
- Make sure **ALL** equipment is locked in position before operating.
- **NEVER** start equipment until **ALL** persons are clear of the work area.
- Keep hands and feet away from the auger intake and other moving parts.
- **NEVER** attempt to assist machinery operation or to remove trash from equipment while in operation.
- Be sure all operators are adequately rested and prepared to perform all functions of operating this equipment.
- **NEVER** allow any person intoxicated or under the influence of alcohol or drugs to operate the equipment.
- Make sure someone is nearby who is aware of the proper shut down sequence in the event of an accident or emergency.
- **ALWAYS** think before acting. **NEVER** act impulsively around the equipment.
- **NEVER** allow anyone inside a bin, truck or wagon which is being unloaded by an auger or conveyor. Flowing grain can trap and suffocate in seconds.
- Use ample overhead lighting after sunset to light the work area.
- Keep area around intake free of obstacles such as electrical cords, blocks, etc., that might trip workers.
- **NEVER** drive, stand or walk under the equipment.



Safety Continued

Prepare for Emergencies

Be prepared if fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital and fire department near your telephone.



Wear Protective Clothing

Wear close fitting clothing and safety equipment appropriate to the job.

Remove all jewelry.

Long hair should be tied up and back.

Safety glasses should be worn at all times to protect eyes from debris.

Wear gloves to protect your hands from sharp edges on plastic or steel parts.

Wear steel toe boots to help protect your feet from falling debris. Tuck in any loose or dangling shoe strings

A respirator may be needed to prevent breathing potentially toxic fumes and dust.

Wear hard hat to help protect your head.

Wear appropriate fall protection equipment when working at elevations greater than six feet (6')



Assembly

Assembling the 1 HP Blower Kit



(1HP motor not shown)

1. Remove the outer cover of the blower and take out the fan wheel. (see figure 1)

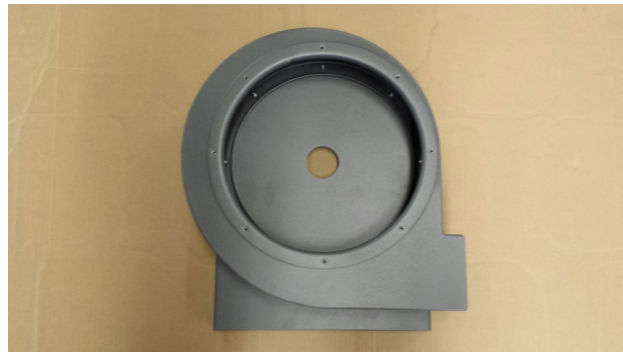


Figure 1 (Inlet side—faces KLEENair)

2. Determine the direction you want the blower to discharge. (see page 2 for settings)
3. Once you have the direction of the discharge in place then tighten the six 5/16" screws on the motor side. (see figure 2)



Figure 2 (motor side)

Assembly Continued

NOTE: Make sure the rotation of the blower wheel is moving air out the blower as indicated on page 2. The direction of the blower can be rotated to 8 different settings. A second option is to reverse the housing on the blower to the opposite side for 8 additional settings, but in doing so you will need to reverse the motor direction as well. For fan inverted for ceiling suspension, or side mounting, direction of rotation and discharge is determined when fan is resting on the floor.

4. Attach the motor mount to the blower housing (see figure 3) by using the 4 screw-head bolts (add a washer to the head side and a lock washer and nut to the back side).



Figure 3

5. Place the motor on the motor mount with the motor shaft sticking through the housing. (see figure 4). Bolt the motor to the motor mount but do not tighten the nuts.
6. Slide the wheel onto the motor shaft (see figure 5) and insert key into key-way. Tighten the two allen screws onto the motor shaft. Adjust the motor so the wheel spins freely without rubbing on the housing. Tighten the bolts which anchor the motor.

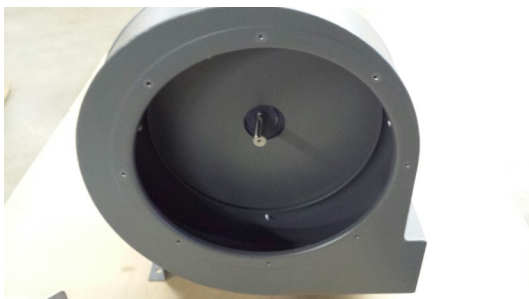


Figure 4

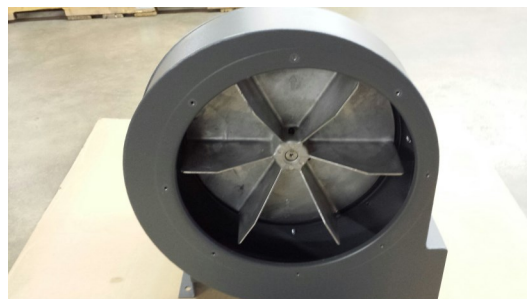


Figure 5

Assembly Continued

Assemble Suction Hose

7. Install outer cover with 6" flange facing out. (see figure 6)

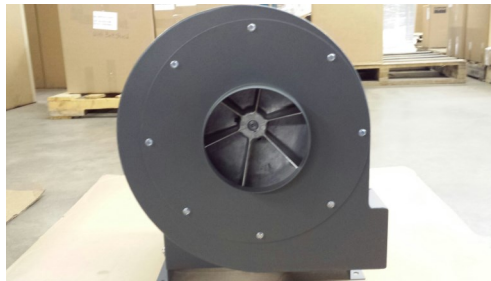


Figure 6

8. Attach the steel square-to-round transition to the blower by using two self-tapping screws. Slide the 2' x 6" flex hose onto the 6" flange and to the KLEENair unit and fasten in place with two 4-1/8—7" hose clamps. (see figure 7)



Figure 7

9. Attach discharge tubing (not supplied) to the steel transition on the blower.

4" galvanized tubing recommended for 1 HP blower

6" galvanized tubing recommended for 3 HP blower

WARNING: Using plastic or PVC tubing will cause static electricity and possible electrocution or fire.

- It is recommended to run discharge tubing horizontally or vertically.
 - Elbows should have larger than 24" radius.
 - Running tubing at an incline can effect blower capacity.
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