

# BRUNeumatic Aspirator Fan

## Owners Manual



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Thank you for your purchase of the BRUNeumatic Aspirator Fan. The BRUNeumatic Aspirator Fan is American made and uses quality parts for years of trouble free operation. Should you have any concerns or questions, please contact us. This manual is created for the end user of our products. Please forward this on to the buyer, should you sell or trade this unit.

This would be a good place to record information about your BRUNeumatic Aspirator.

Model: \_\_\_\_\_ S/N: \_\_\_\_\_

Date Installed: \_\_\_\_\_ Purchased through: \_\_\_\_\_

## **Safety First!**

- 1.) This unit must be wired in accordance to your local electrical codes and standards.
- 2.) ALWAYS, lock out the aspirator electrical power at the source with a device or padlock you control prior to doing any maintenance or service on the aspirator. Shut off and verify that all power has been removed.
- 3.) The BRUNeumatic Aspirator spins at a very high rate of speed. The internal impeller of this unit is very sharp. NEVER run the unit with any piping or accessories removed or with any piping that allows anyone access to the spinning blade.

**This can not be stressed enough. If you place your body in such position, you will be injured, quite possibly severe.**

- 4.) Ensure the BRUNeumatic Aspirator is securely bolted, anchored, or affixed using the four mounting holes in the base of the aspirator. Never allow the piping to hold the weight of the aspirator. Check these bolts at some frequency to help reduce vibration and to ensure the Aspirator is held in place properly.

### **Maintenance of your BRUNeumatic Aspirator**

- 1.) The motor bearings are sealed and need no further lubrication for the life of the motor.
- 2.) Every two seasons, we recommend you check the tightness of the set screw that hold the impeller to the motor shaft. Shut off and lock out all power, remove any piping to the intake section, remove the nuts that hold the front plate to the Aspirator, remove the front plate to gain access to this set screw.
- 3.) The single phase motor is thermally protected by a manual reset thermal protector. If the motor overheats, the thermal protector will open the motor circuit. If this occurs turn off the main switch and after the motor cools sufficiently push the reset button on the motor. A click indicates reset and the motor can be restarted at that time. The 3 phase motor has no thermal protection reset button. In either case, this is not a substitute for proper thermal overload protection.

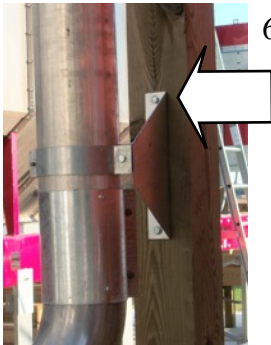
# Installation of the BRUNeumatic Aspirator System

- 1.) Plan a location in advance for your aspirator. Straight lines are preferred over multiple bends.
- 2.) Mount the aspirator to a solid surface using (4) 5/16" cap screws in the base of the aspirator. Bolting to concrete via anchors is acceptable. The aspirator should be mounted in the normal position as shown in the below picture.



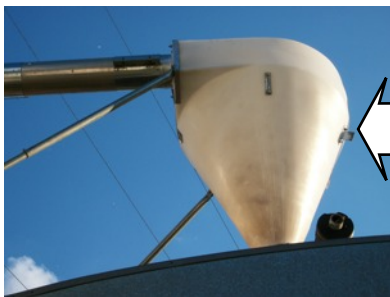
NOTE: The housing of the BRUNeumatic Aspirator may be turned in 90 degree segments, sometimes saving the installation of one elbow. See the end of this manual for instructions on how to do this.

- 3.) Wire the BRUNeumatic Aspirator as shown on the nameplate of the motor. It is extremely important to ground the motor in accordance to local electrical codes. **DO NOT POWER UP AT THIS POINT.**
- 4.) Install connectors and piping. There is no hard, fast rule on how to plumb this unit, however, usually, the closer to the suction area, the better. We offer a full line of transitions, piping and couplings.
- 5.) After piping is completed, and all persons, tools and equipment are out of the way, briefly start the BRUNeumatic Aspirator to check rotation and suction. The nameplate explains how to change direction of the motor.



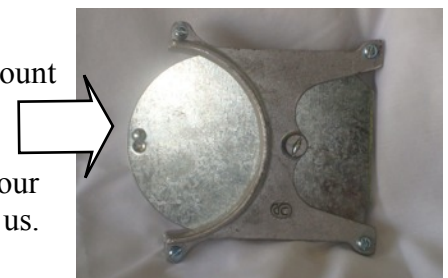
- 6.) Always ensure your plumbing is secured. The picture at the left shows our Stand Off Bracket and our low pressure coupler. These are very convenient and will reduce your installation time.

- 7.) A discharge adapter for grain dryers, (shown right) manufactured by Bruning Enterprises, speeds installation time. By using our parts, you are assured a quick and easy install.

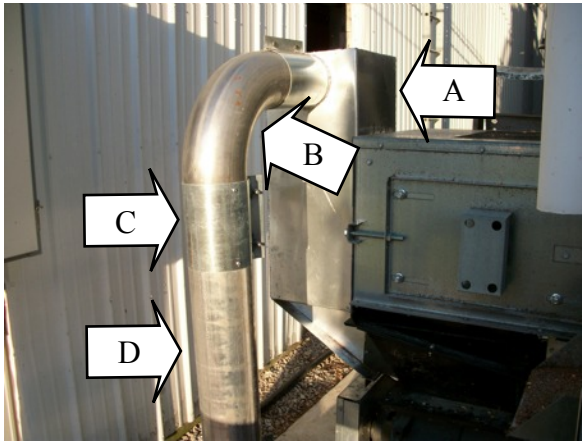


- 8.) The BRUNeumatic Aspirator Cyclone may be installed as shown on the left. The cyclone helps to separate the waste product from the airstream. The optional discharge gate allows for the end user to dial in exactly how much air, if any, escapes from the cyclone. This can vary due to the size and weight of the waste product.

- 9.) An inline slide valve may vary the amount of suction that the aspirator draws in. Most all installations do not require these, but they are available through your BRUNeumatic dealer or directly from us.



# Typical Installations

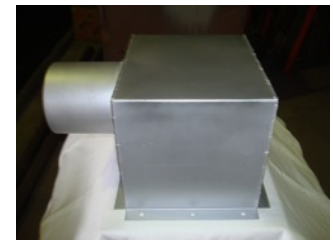


- A. BRUNeumatic part # 70-027-6 Adapter to dryer discharge.
- B. BRUNeumatic part # 70-002-6 6" Short Radius Elbow.
- C. BRUNeumatic part # 70-003-6 6" Coupler Sleeve.
- D. BRUNeumatic part # 70-001-6 6" Aluminum Tube.



← 6" Steel Flex Hose, BRUNeumatic Part # 70-011-6 is available in lengths up to 25'

BRUNeumatic Part # 70-028-6, Grain Dryer Inlet Transition →



← BRUNeumatic Part # 70-026-6 is our 6" x 6" x 6" Tee Fitting. This is great for using both the inlet and discharge transitions on your grain dryer. We also make a 6" x 6" x 4" reducing tee that can help balance air flow when two lines in two areas have suction on them.

## Turning the housing on the BRUNeumatic Aspirator.

- 1.) If wired, follow proper lock out / tag out procedures. If the unit has yet to be wired, continue.
- 2.) Remove any piping to the suction side of the unit.
- 3.) Remove the nuts that retain the faceplate to the housing.
- 4.) Remove the faceplate. There is a bead of sealant to reduce air leaks. It may be difficult to remove.
- 5.) Turn the impeller to gain access to the bolts that hold the housing to the motor.
- 6.) Remove the 4 bolts that hold the housing to the C face of the motor.
- 7.) Turn the housing to the desired position. Reinstall bolts. Adding a thread locking sealant is recommended.
- 8.) Add silicone sealant to the outside edge of the Aspirator faceplate. Place the nuts back on the threaded studs. Tighten in a random pattern, tight enough to hold the faceplate, but not so tight to squeeze out all the silicone.
- 9.) Connect piping as either the initial installation or per existing installation.

