



The Industry Leader in Dust Collection

Steel Dust Deputy D.I.Y. Cyclone Separator

Heavy-Duty / Stainless

2" / 3" / 4"

AXD001002

AXD001004SS

AXD150001SS

AXD190001SS



Patents: www.oneida-air.com/patents

System Start-Up Information



READ THE SAFETY PRACTICES INSTALLATION AND MAINTENANCE INSTRUCTIONS AND YOUR WET/ DRY VACUUM'S OWNER'S MANUAL BEFORE ASSEMBLING AND USING THE DUST DEPUTY

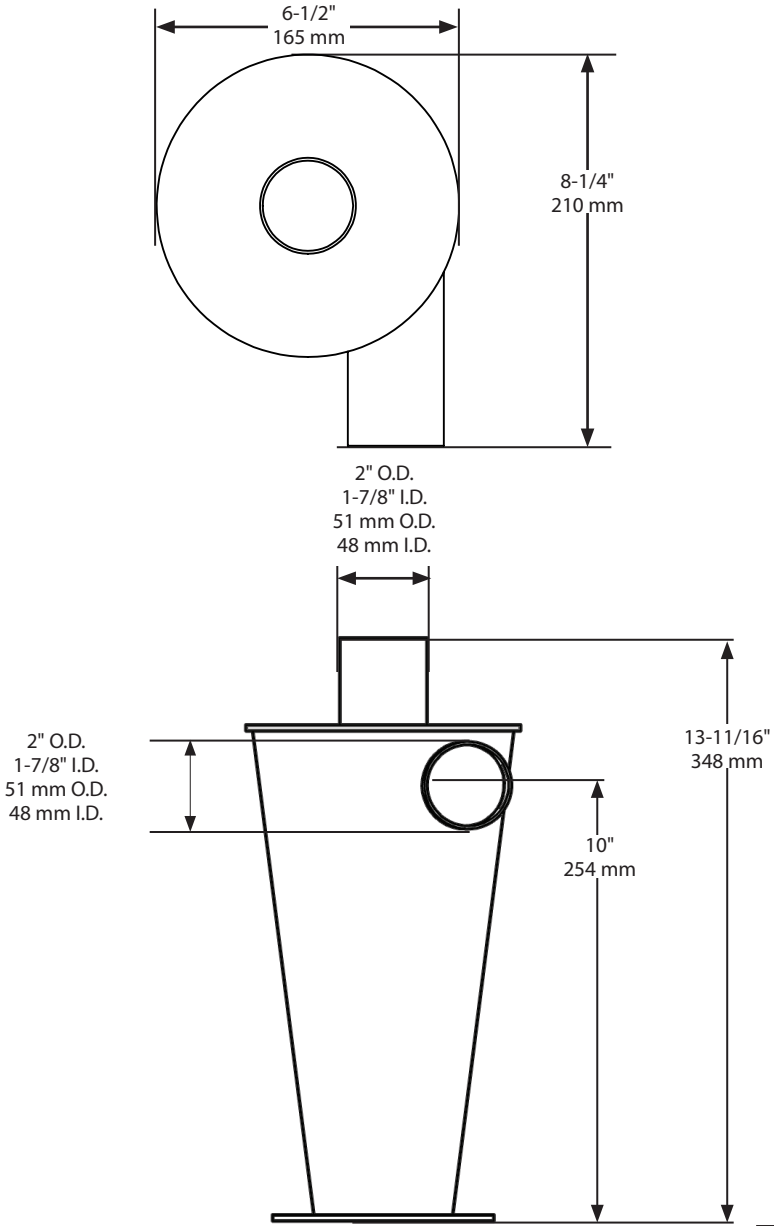
1. DO NOT use to pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
2. DO NOT collect flammable or combustible liquids, gases, or explosive dusts, such as gasoline or other fuels, lighter fluid, cleaners, oil-based paints, natural gas, hydrogen, coal dust, magnesium dust, grain dust, aluminum dust, sugar dust, flour dust or gun powder.
3. Can be used for collecting non-flammable liquids.
4. DO NOT use or store near hazardous materials.
5. DO NOT operate the in areas where explosion risks are high. Areas of high risk include, but are not limited to, areas near pilot lights, open flames, or other ignition sources.
6. ALWAYS wear a NIOSH approved respirator when emptying dust bins and during operation. Dust created by machinery operations may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material.
7. NEVER introduce sparks or sources of ignition.
8. ENSURE all equipment and connections are electrically grounded.
9. ONLY operate in locations that has a fire extinguisher available nearby.
10. ALWAYS dispose of waste in a fire safe area after each use. NEVER leave wood dust in a building or vehicle. Wood dust mixtures are highly flammable and can be explosive.



SOME DUSTS ARE HIGHLY FLAMMABLE OR EXPLOSIVE. LEARN/ KNOW WHAT YOU ARE DEALING WITH. FOLLOW ALL LOCAL, STATE, FEDERAL & NFPA CODES AND GUIDE LINES.

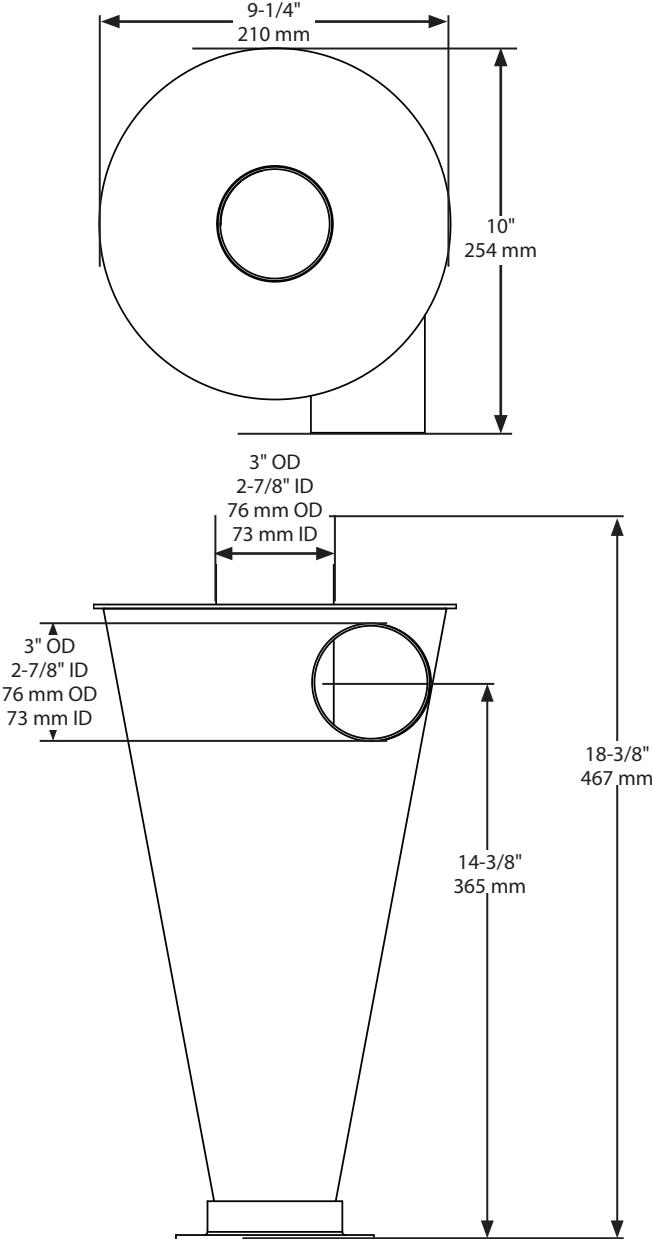
DIY 2" Cyclone Dimensions

Nominal dimensions shown. Dimensions subject to slight variations in manufacturing.



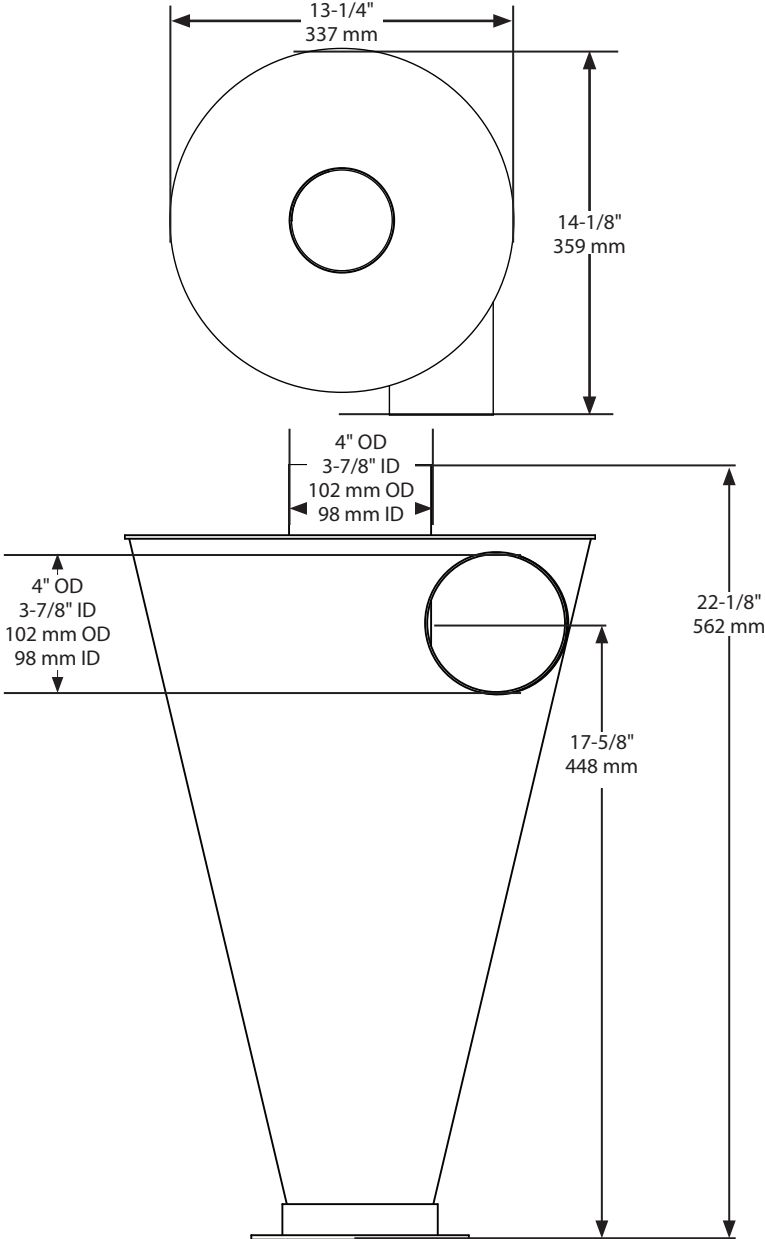
DIY 3" Cyclone

Nominal dimensions shown. Dimensions subject to slight variations in manufacturing.



DIY 4" Cyclone

Nominal dimensions shown. Dimensions subject to slight variations in manufacturing.



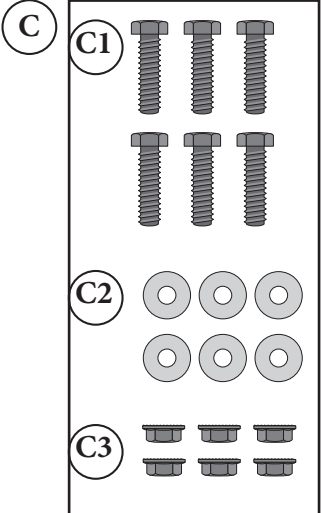
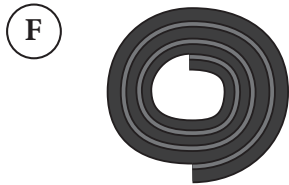
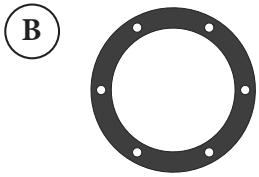
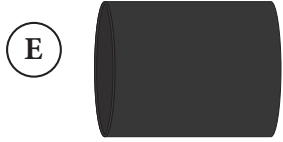
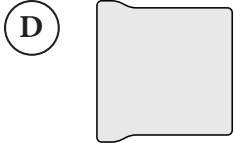
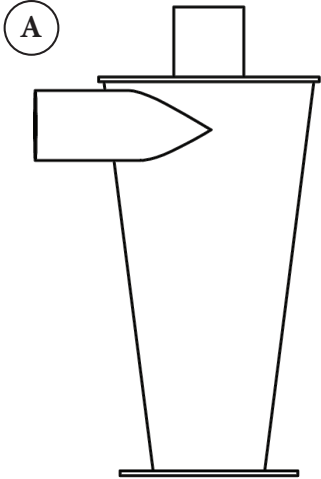
System Contents

| ID | Part number | Part description | Qty |
|----------------------------------|--------------|--|-----|
| INCLUDED WITH AXD001002 | | | |
| A | VXC110001 | 11" Steel Cyclone with 2" inlet and outlet | 1 |
| B | AXG000004A | Cyclone Gasket | 1 |
| C | AHX000016 | Cyclone Hardware Pack | 1 |
| C1 | AFS015920 | 1/4" - 20 x 3/4" Hex Head Bolt | 6 |
| C2 | AFW025000 | 1/4" Flat Washer | 6 |
| C3 | AFT000005 | 1/4" Whiz-Lock Nut | 6 |
| D | AXD200225 | 2" ID to 2.25" OD Vacuum Hose Adapter | 1 |
| E | AXD225225 | 2.5" Vacuum Hose Coupler | 1 |
| INCLUDED WITH AXD001004SS | | | |
| A | VXC110001SS* | 11" Stainless Steel Cyclone with 2" inlet and outlet | 1 |
| B | AXG000004A | Cyclone Gasket | 1 |
| INCLUDED WITH AXD150001SS | | | |
| A | VXC150001SS* | 15" Stainless Steel Cyclone with 3" inlet and outlet | 1 |
| B | AXG000004A | Cyclone Gasket | 1 |
| INCLUDED WITH AXD190001SS | | | |
| A | VXC190001SS* | 19" Stainless Steel Cyclone with 4" inlet and outlet | 1 |
| F | RGZ125250 | Gasket | 1 |

Please unpack the parts carefully and confirm you have received each item listed here.

** 304L stainless steel is NOT food-grade rated and should only be used to handle waste products. Additional cleaning and treating are required to make the product food-grade safe.*

System Contents



Assembly Instructions

You will need the following:

- Two 7/16" Wrenches
- Container & Lid
- Hardware
- Hole Saw
- Drill
- 5/16" Drill Bit

1

Draw a 3" diameter circle on your supplied lid. Carefully cut out a 3" hole in lid [FIG. 1a].

If you purchased AXD190001SS, draw a 4" diameter circle on your supplied lid. Carefully cut out a 4" hole in lid [FIG. 1b].

Center the base of Cyclone (A) over the hole in your lid and mark the placement of the bolt holes. Use 5/16" drill bit to drill bolt holes.

Note: Use the base of the Cyclone (A), Cyclone Gasket (B) for reference.

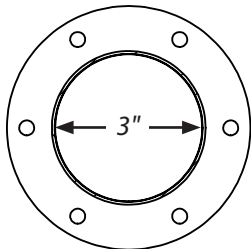


FIG. 1a

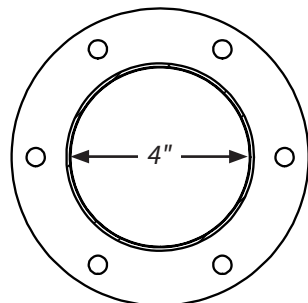


FIG. 1b

Assembly Instructions (Cont.)

- 2 Only, if you purchased AXD190001SS, apply the Gasket (F) onto the supplied lid along the edge of the cut hole. The Gasket should overlap around the circumference of the hole firmly pressing against itself in a tight spiral shape to avoid air leaks. Trim off excess gasket to avoid covering any bolt holes. [FIG. 2]

Note: Make sure that there are no gaps. Dust collection systems cannot operate effectively if there isn't a complete seal. There must be NO air leaks.

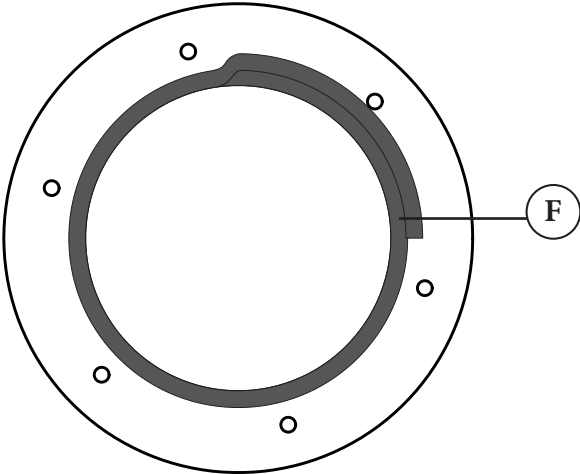


FIG. 2

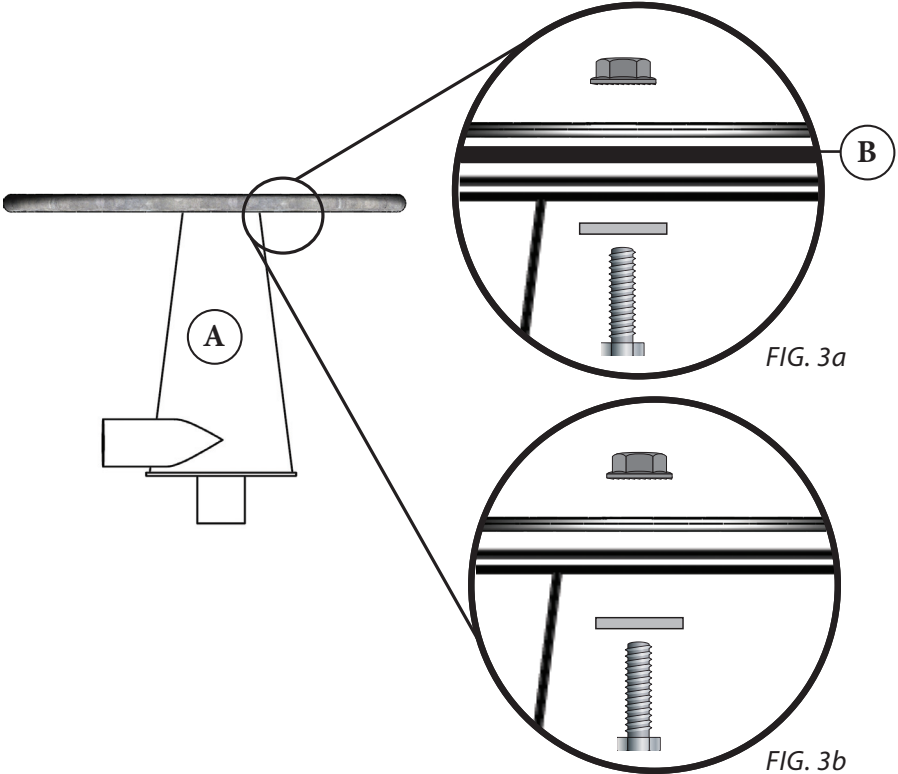
Assembly Instructions (Cont.)

3 Turn Cyclone (A) upside-down and align with Gasket (B), and supplied lid. Secure the Cyclone (A) using six Hex Head Bolts (C1), Flat Washers (C2) and Whiz-Lock Nuts (C3) as shown in [FIG. 3a].

If you purchased AXD190001SS, turn Cyclone (A) upside-down and align with supplied lid and secure with supplied hardware [FIG. 3b].

Note: If you purchased a stainless steel unit (AXD001004SS, AXD150001SS, or AXD190001SS) hardware is not included but we recommend 1/4"-20 bolts, 1/4" Flat Washers and 1/4" flange nuts.

Thoroughly tighten hardware to eliminate air leaks.



Assembly Instructions (Cont.)

- 4** Put Cyclone (A) and lid assembly on top of your dust container and seal it airtight. [FIG. 4].
Note: We recommend a drum or container that will withstand the vacuum pressure (at least a 90 mil side thickness) otherwise the container may collapse when in use. The larger the container, the sturdier the walls must be to prevent collapse.

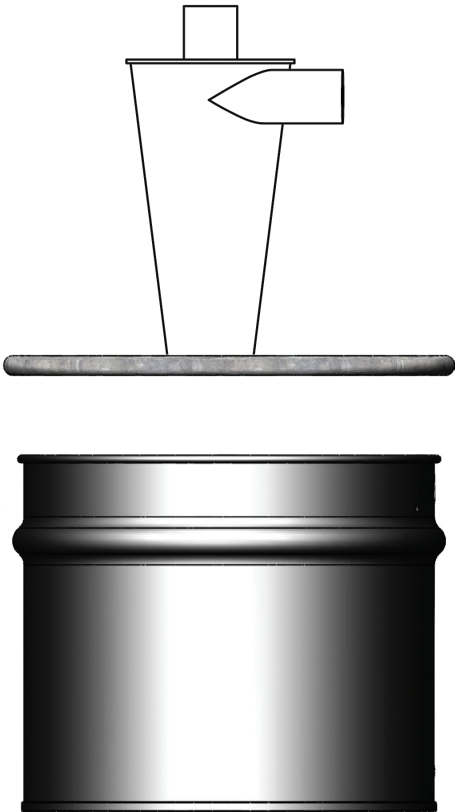


FIG. 4

Assembly Instructions (Cont.)

- 5 Connect the Cyclone's (A) inlet (sideways facing port) to your dust producing tool with hose or ductwork. Connect the cyclone's outlet (upwards facing port) to your vacuum. [FIG. 5].

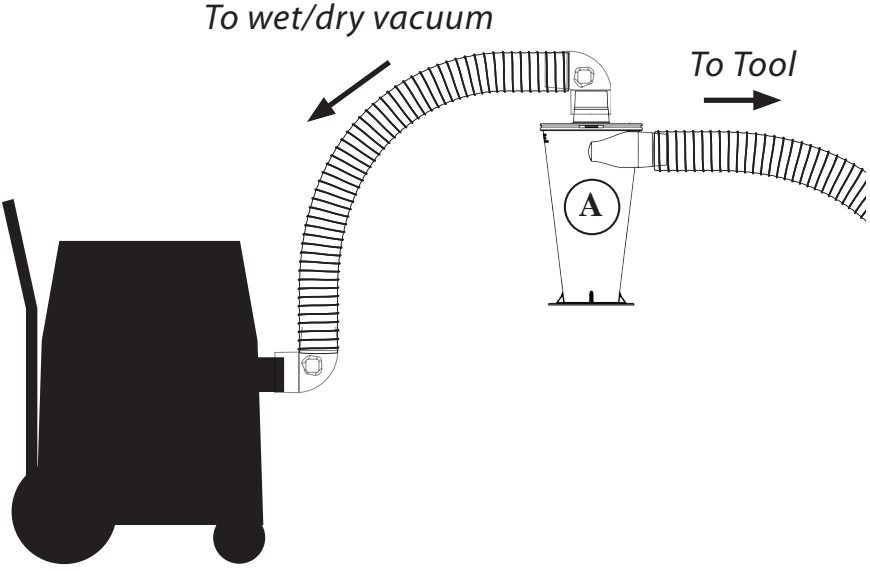


FIG. 5

Assembly Instructions (Cont.)

- 6** If you purchased AXD001002 additional adapters are provided to help connect to your dust extractor's 2-1/2" hose.

Slide the Hose Adapter (D) over either the inlet or outlet of the Cyclone (A). Then slide the House Coupler (E) over the Hose Adapter. Then insert your hose into the House Coupler [FIG. 6].

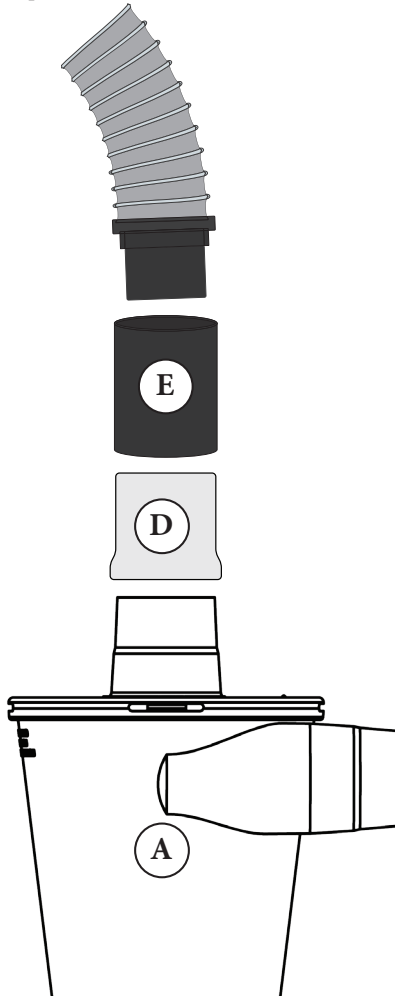


FIG. 6

Assembly Instructions (Cont.)

7 Make sure there are no air leaks at the connections. Review [FIG. 7] on common leak points.

Note: Any air leak in the lid or drum will affect separation performance. Make sure to check your dust drum frequently so you do not overfill it.

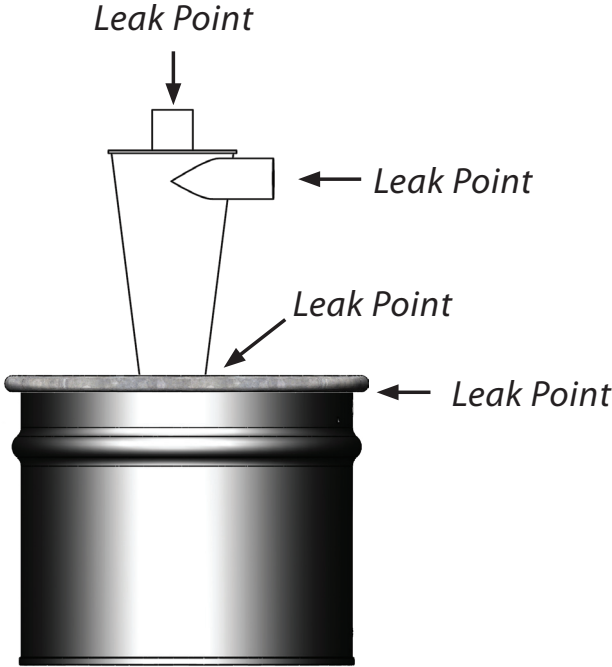


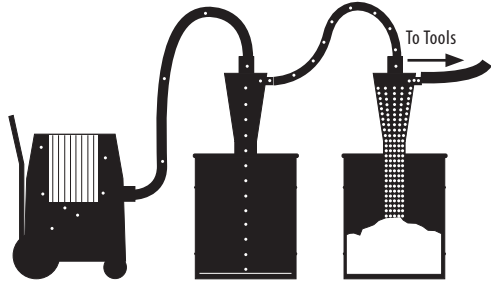
FIG. 7

Adding Cyclones to Improve Performance

Attach in Series

Increases particle efficiency and helps in very fine dust situations.

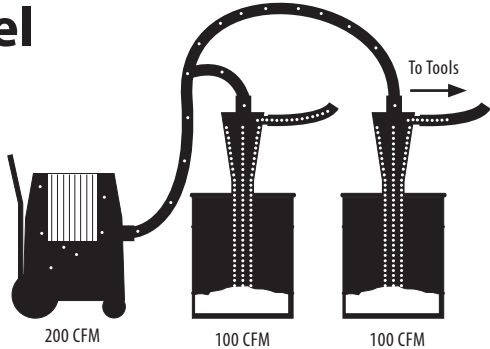
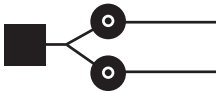
Top View



Attach in Parallel

Same particle efficiency but increases the CFM.

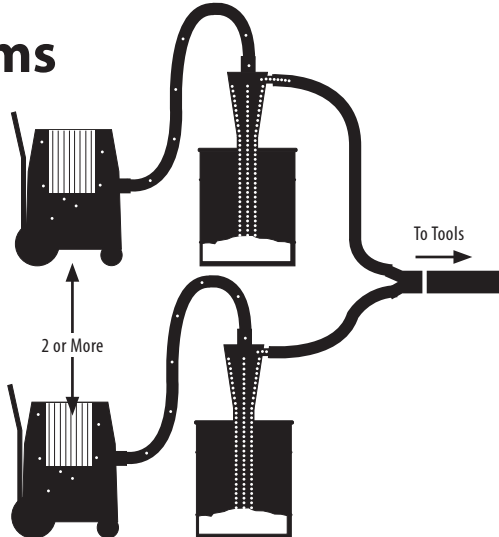
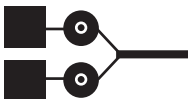
Top View



Multiple Vacuums

More CFM/airflow to larger tools such as Table Saw, Jointer, and Planer.

Top View



Additional D.I.Y. Ideas

You are only limited by your imagination. The lid must be sealed and the container must stand up to your suction pressure without collapsing.

Examples of customer's setups



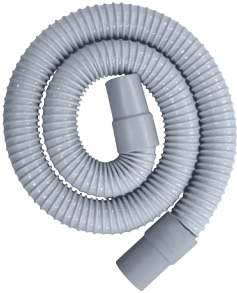
An example of a plywood top that had a groove routed out of it to fit the bucket rim and accommodate the gasket. For mobility and additional stability, you can make a plywood platform to fasten your bucket to. We recommend 5 casters for the best stability.



Troubleshooting

| PROBLEM | CAUSE | SOLUTION |
|---|---------------------------------|---|
| Not separating well. (Only a tiny amount of dust should reach the collector) | Air leaks in the drum | <ol style="list-style-type: none"> 1. Make sure the lid of the dust drum is in place and well seated. 2. Check for any damage to the foam seal of the lid. 3. Ensure the drum lid clamp is tight. 4. Check for holes or leaks in the dust drum. 5. Check for leaks along the flange of the cyclone. |
| Material swirls in cyclone and won't drop into the dust container. | | |
| Material swirls in cyclone and won't drop into the dust container. | Collecting large bulky material | <ol style="list-style-type: none"> 1. Large, bulkier material might swirl. Restart or temporarily cut off air flow to drop material down. |
| Low Air Volume | System clogged | <ol style="list-style-type: none"> 1. Clean vacuum and the vacuum filter per the manufacturer's specs. 2. Check all hose connections for a blockage in the hose. |
| Drum Collapsing | Blocked airflow | <ol style="list-style-type: none"> 1. Ensure at least one gate is open during operation of your dust collector. |
| Hose Pulling off | Hose connections not tight | <ol style="list-style-type: none"> 1. Due to the varied hose diameters, flexible couplers can be used. They are available at local hardware stores in the plumbing section. 2. Use a hose clamp. 3. Wrap the inlet and outlet of the Dust Deputy with a layer of electrical tape to increase the friction fit. 4. Secure hose with a sheet metal screw. |

Accessories



2" x 10' Wire Reinforced Vacuum Hose

#AXD400000

- Crush-resistant, flexible hose with a smooth-wall inner lining that minimizes air resistance.



2.5" Turnkey Hose Clamp

#ACB360000

- Secures hose fitting in place to eliminate disconnects when pulling or flexing the hose.
- Fits hoses and port sizes from 2" to 2-1/2" in diameter.



Universal Dust-Free Router Hood

#AXH000001

- Collects router waste from both above and below the bit, virtually eliminating post-project cleanup.



Viper Vacuum Scraper Paint Removal Tool

AXS001160B

- Ergonomic hand scraping tool with high-textured grip and reversible, tungsten-carbide blade.
- Hollow handle fits 1-1/4" to 1-1/2" vacuum hoses.

Warranty Information

Limited Warranty – Activate online at oneida-air.com/warranty

Oneida Air Systems®, Inc. (OAS) warrants the products it manufactures for a period of 1 or more years, depending on the product, to the original purchaser from the date of purchase, unless otherwise specified. Items not manufactured by Oneida Air Systems are limited to their own manufacturer's warranties. All electrical items such as magnetic starters, remotes, sensors, pumps, bin sensors, bag grippers, etc. and accessories are limited to 90 days. Oneida Air Systems warrants that the product will be free from defects in materials and workmanship.

This is Oneida Air Systems' sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. Oneida Air Systems does not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. This warranty does not apply to defects due directly or indirectly to misuse, negligence, accidents, abuse, repairs, alterations, improper wiring or lack of maintenance. In no event shall Oneida Air Systems' liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Oneida Air Systems shall be tried in the State of New York, County of Onondaga.

The buyer is cautioned to install and operate Dust Collectors in accordance with prescribed Federal, State, OSHA, NFPA, local codes and regulations. This equipment should be installed/wired by a licensed electrician following all applicable codes. Local codes can be significantly different from national codes. The customer assumes the responsibility for contacting their insurance underwriter with regard to specific application requirements of venting or if additional fire protection and safety equipment may be required. Oneida Air Systems shall in no event be liable for death, injuries to persons or property or for incidental, and contingent, special, or consequential damages arising from the use of our product.

Oneida Air Systems makes every effort to accurately represent our products and prices, however Oneida Air Systems reserves the right to make changes to products and prices at any time. As a manufacturer, Oneida Air Systems reserves the right to change product specifications at any time in an effort to achieve better quality products.



ONEIDA AIR SYSTEMS SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY OR FOR INCIDENTAL, AND CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCT.



SAFETY WARNING - PLEASE READ

Before Purchasing or Installing a dust collection system the buyer is cautioned to do so in accordance with prescribed Federal, State, Local, OSHA, NFPA, and any other applicable codes or regulations relating to the type of dust(s) you are collecting.

SOME TYPES OF DUST UNDER CERTAIN CONDITIONS HAVE THE POTENTIAL TO BE EXPLOSIVE.

Oneida Air Systems is not responsible for how the dust collector is used or installed. Dusts with deflagration or explosion risks, such as wood dust, may require additional safety equipment including but not limited to; venting, spark detection, suppression systems, back draft dampers or may require installation in an outside location or in a protected area away from personnel. The customer assumes the responsibility for contacting their insurance underwriter with regard to specific engineering controls or application requirements. (We suggest you reference NFPA 664, 654 and 68 codes for more information) Oneida Air Dust Collection Systems may not be suitable for some applications and are not designed to be used in explosive atmospheres. Oneida Air Systems equipment should only be installed and wired by a licensed electrician following all applicable local and national electrical codes.

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are: Lead from lead-based paints; Crystalline silica from bricks, cement and other masonry products; Arsenic and chromium from chemically-treated lumber; etc.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. Oneida Air Systems recommends using additional approved safety equipment such as an approved OSHA and NIOSH dust mask or respirator.



The **Industry Leader in Dust Collection**

Thank you for your business!

Regardless of where you purchased your system, if you have any questions or issues with missing / damaged parts, please call Oneida Air Systems first to let us help resolve your problem. We fully stand behind the quality of our products and place the utmost value on the satisfaction of our customers.

We want to do everything possible to make your purchase and experience with Oneida Air Systems a good one!

Customer Service Dept.

1-866-387-8822 • support@oneida-air.com

1001 West Fayette Street, Syracuse, NY 13204 U.S.A.

Copyright © 2023 Oneida Air Systems, Inc.