



The Industry Leader in Dust Collection

Dust Deputy 2.5 D.I.Y. Dust Deputy 2.5 Plus Cyclone Separator

#AXD251004

#AXD250504



U.S. Pat.
RE40048
7282074

Safety Practices



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

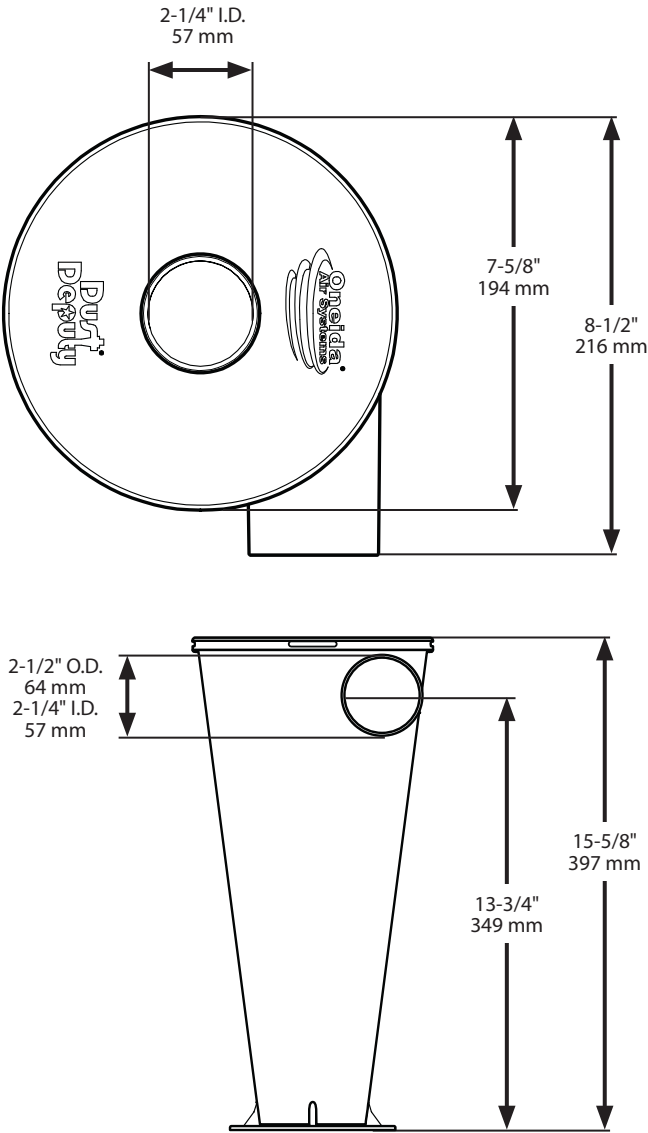
1. Do not vacuum anything that is burning or smoking, such as cigarettes, matches, hot ashes, or any hot substance!
2. Do not vacuum (or use this cyclone near) flammable or combustible liquids, gases, or explosive dusts, such as gasoline or other fuels, lighter fluid, cleaners, oil-based paints, natural gas, hydrogen, coal dust, magnesium dust, grain dust, aluminum dust, sugar dust, flour dust or gun powder.
3. To reduce the risk of health hazards from vapors or dusts, do not vacuum toxic materials unless a HEPA filter is used. Do not use or store near hazardous materials.
4. Dust can be flammable and explosive. Some dust can be toxic or cause allergic reactions.
5. Wood dust mixtures are highly flammable and can be explosive. NEVER introduce sparks or sources of ignition into collector.
 - a. Empty drum after each use.
 - b. Ground system.
6. NEVER leave wood dust in a building or vehicle.
7. Keep fire extinguishers handy at all times.
8. Can be used for collecting non-flammable liquids.
9. Dispose of waste in a FIRE SAFE AREA.



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

System Dimensions

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



System Contents

ID	Part number	Part description	Qty
A	VXC150225	Anti-Static 2.5 Cyclone	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
INCLUDED ONLY WITH AXD250504			
D	AXD250066	2.5" x 5.5' Hose	1
E	SDL050001A	5 Gallon Bucket Lid	1

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

You will need the following:

- Wet/Dry Vacuum
- Vacuum Hose
- Vacuum Hose Adapters

Dust Deputy 2.5 Plus (AXD250504):

- 5-Gallon Bucket

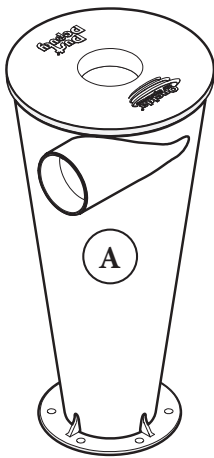
Dust Deputy 2.5 D.I.Y (AXD251004):

- Air Tight Dust Container and Lid
- Power Drill
- 5/16" Drill Bit
- Hole Saw or Reciprocating Saw

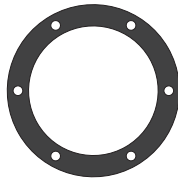
Note: Due to a variety of factors associated with the molding process, the base of the Dust Deputy 2.5 cyclone may appear warped rather than perfectly flat. This is normal and does not impact performance as long as the cyclone is installed according to these instructions.

System Contents (Cont.)

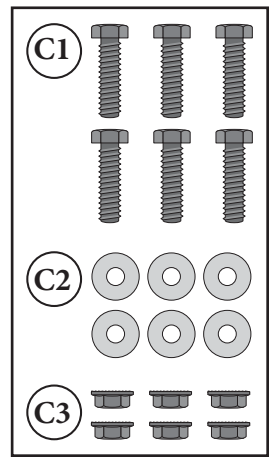
Note: Use a 5-gallon bucket with Lid (E) or a suitable drum/ container with your own supplied lid. Your container must be able to withstand vacuum pressure, otherwise it may collapse when in use. We recommend a minimum 90 mil wall thickness. The larger the container, the sturdier the walls must be to prevent collapse. Oneida Air Systems has many container options available at our website, oneida-air.com.



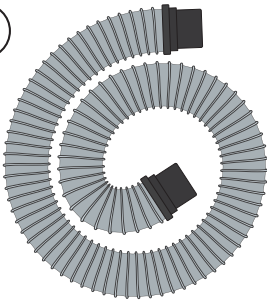
B



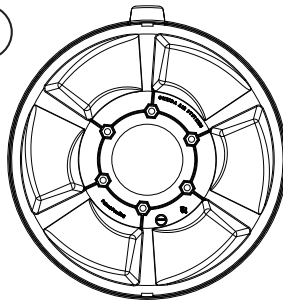
C



D



E



Assembly Instructions

1

For the 2.5 Plus (#AXD250504), continue to Step 3.

Draw a 3" diameter circle on your supplied lid. Carefully cut out 3" hole in lid. Use 5/16" drill bit to drill bolt holes.

Note: Use the base of the Cyclone (A), Gasket (B), or the Dust Deputy Template on page 14 for reference.

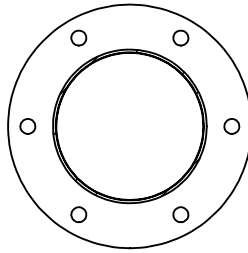


FIG. 1

2

Turn Cyclone (A) upside-down. Place Gasket (B) on the base of Cyclone (A) and align all the holes. Place the topside of your supplied lid against Gasket (B) and align all the holes. Secure Cyclone (A), Gasket (B) and lid together using six Bolts (C1), six Washers (C2), and six Whiz-Lock Nuts (C3) as shown in [FIG. 2].

Note: Tighten hardware evenly to eliminate air leaks.

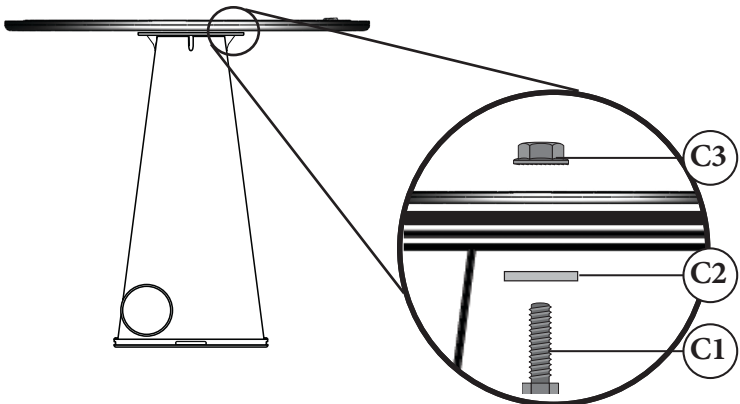


FIG. 2

Assembly Instructions

3

For the 2.5 D.I.Y (#AXD251004), continue to Step 4.

Turn Cyclone (A) upside-down. Place Gasket (B) on the base of Cyclone and align all the holes. Place the topside of the Lid (E) against Gasket and align all holes. Secure Cyclone, Gasket and Lid together using six Bolts (C1), six Washers (C2), and six Whiz-Lock Nuts (C3) as shown in [FIG. 3].

Note: Tighten hardware evenly to eliminate air leaks. DO NOT OVERTIGHTEN! On the underside of Lid (E) are hex-shaped recesses for easier installation of the nuts. Place hex side of the Whiz-Lock Nut (C3) into recess.

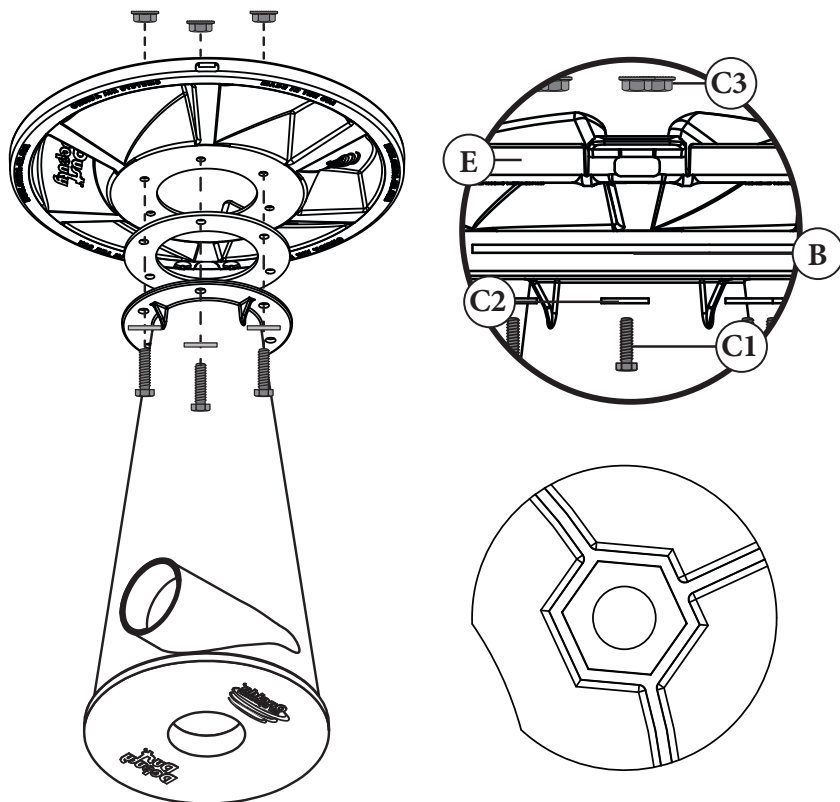


FIG. 3

Assembly Instructions (Cont.)

4

If using your own supplied lid, put Cyclone (A) and lid on top of your dust container and seal it airtight [FIG. 4a].

If using the provided Lid (E), snap Cyclone (A) and Lid assembly onto your bucket and ensure it's fully seated [FIG. 4b]. The Lid will make an audible click as it seals close.

Note: The Lid (E) may fit loosely on your bucket. This is normal. The lid will seal shut under vacuum pressure once you turn on your wet/dry vacuum. To empty the bucket, lift up on the Lid's latch and pull up on the Lid to release the Lid/Cyclone assembly from the bucket [FIG. 4c].



FIG. 4a

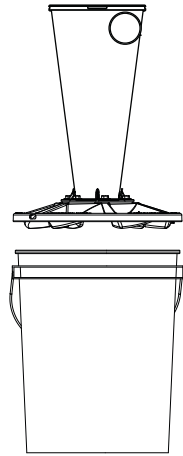


FIG. 4b

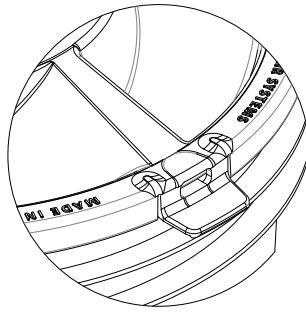


FIG. 4c

Assembly Instructions (Cont.)

5

Connect Cyclone's (A) inlet (sideways facing port) to your dust producing tool with your hose or ductwork. Connect the Cyclone's (A) outlet (top port) to your vacuum with the provided hose, your hose, or ductwork [FIG 5]. Both inlet and outlet accept standard 2.5" hose cuffs (OD \approx 2.25") .

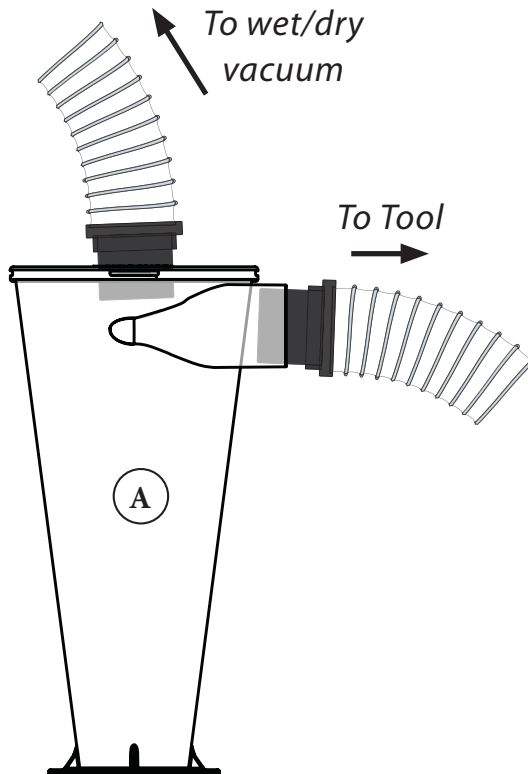


FIG. 5

Assembly Instructions (Cont.)

6

Make sure there are no air leaks at the connections. Review [FIG. 6] for 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.

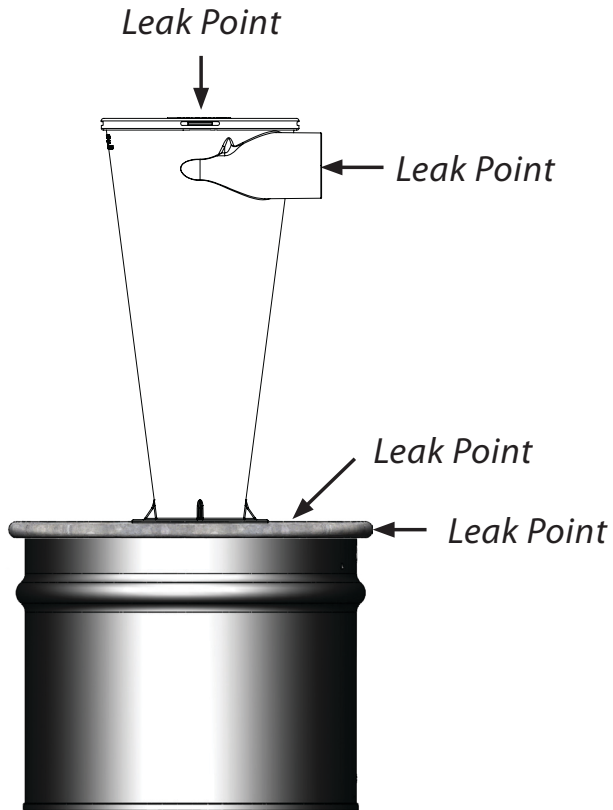


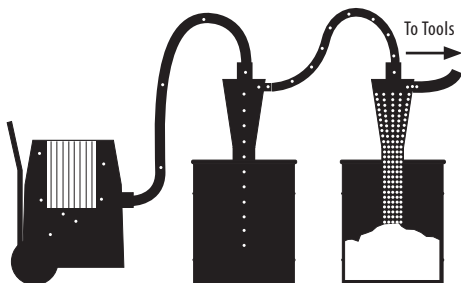
FIG. 6

Adding Cyclones to Improve Performance

Attach in Series

Increases particle separation efficiency, especially with very fine dust.

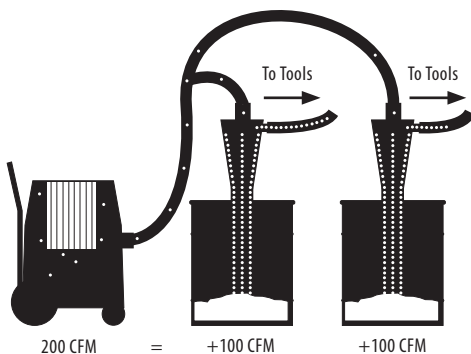
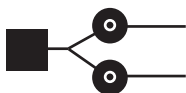
Top View



Attach in Parallel

Increases CFM.

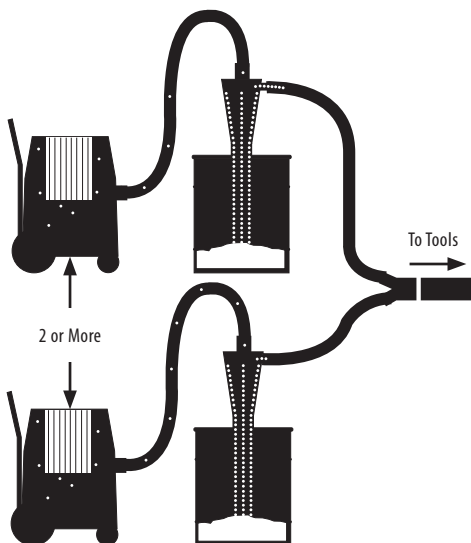
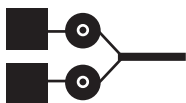
Top View



Attach Multiple Vacuums

More CFM/airflow to larger tools such as table saw, jointer, or planer.

Top View



Additional D.I.Y. Ideas

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

Note: Images shown with the original Dust Deputy, not the Dust Deputy 2.5.

Examples of DIY setups



[FIG. 7] is 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.



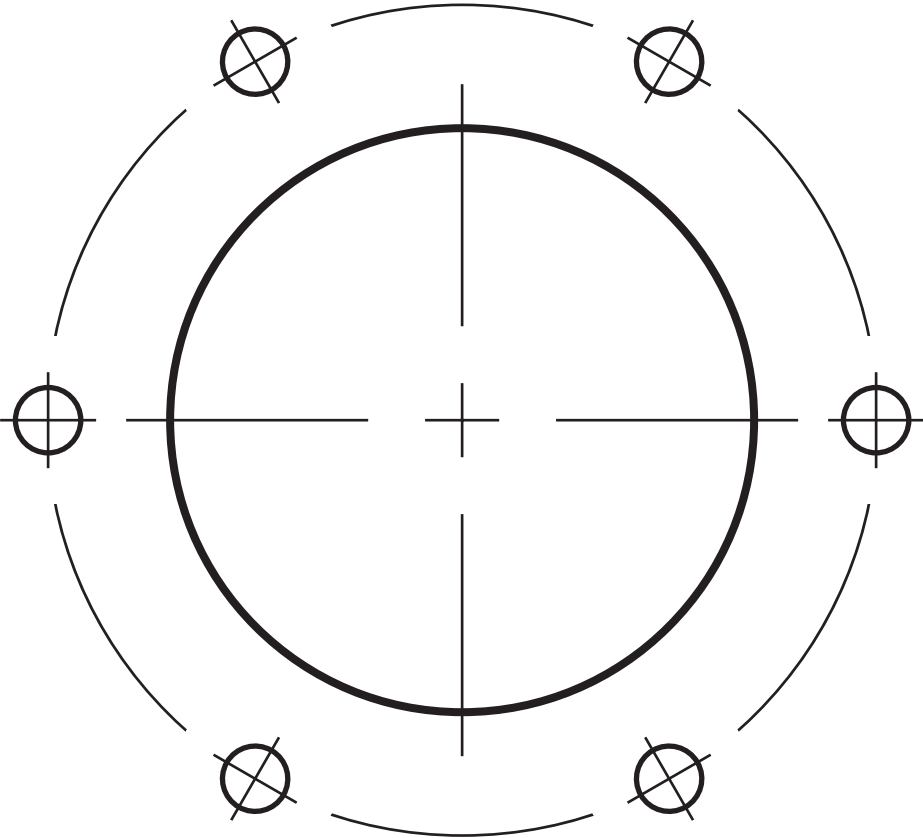
FIG. 7

Troubleshooting

PROBLEM	CAUSE	SOLUTION
<i>Not separating well. (Only a tiny amount of dust should reach the vacuum).</i>	Air leaks in the drum.	<ol style="list-style-type: none">1. Check for leaks between the lid and the dust drum.2. Check for holes or leaks in the dust drum.3. Check for leaks along the flange (base) of the cyclone.
<i>Material swirls in cyclone and won't drop into the dust container.</i>		
<i>Material swirls in cyclone and won't drop into the dust container.</i>	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.
<i>Low air volume.</i>	System clogged.	<ol style="list-style-type: none">1. Clean vacuum and filter per the manufacturer's specs.2. Check all hose connections for a blockage in the hose.

Dust Deputy Template

Use this template to prepare your lid for installation of the Dust Deputy 2.5 D.I.Y.



Warranty Information

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

Oneida Air Systems, Inc. (OAS) warrants the Dust Deputy 2.5 D.I.Y. and 2.5 Plus for a period of 1 year 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 brick, 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 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 purchase
of this American made product!**

Regardless of where you purchased your Oneida Air Systems' product, 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.

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