



The Industry Leader in Dust Collection

Dust Deputy Bagger

AXD000004-DDB

How It Works

The dust-laden air passes through the Dust Deputy Cyclone, which separates out 99% of the dust. The cleaned air passes into your shop vacuum, while the dust falls into an accumulator bin with an open grid bottom.

A heavy plastic bag is held in place around the accumulator bin. When the vacuum is turned on, the bag is sucked up against the grid. When the vacuum is turned off, the bag falls away and the collected dust drains into the bag. When the vacuum is turned on again, the previously bagged dust stays below the grid.

This action can be repeated until the bag is two-thirds full, at which point we recommend that the bag be removed and replaced.

US Pat.

6833016

RE40048

7282074

Pat. Pending



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

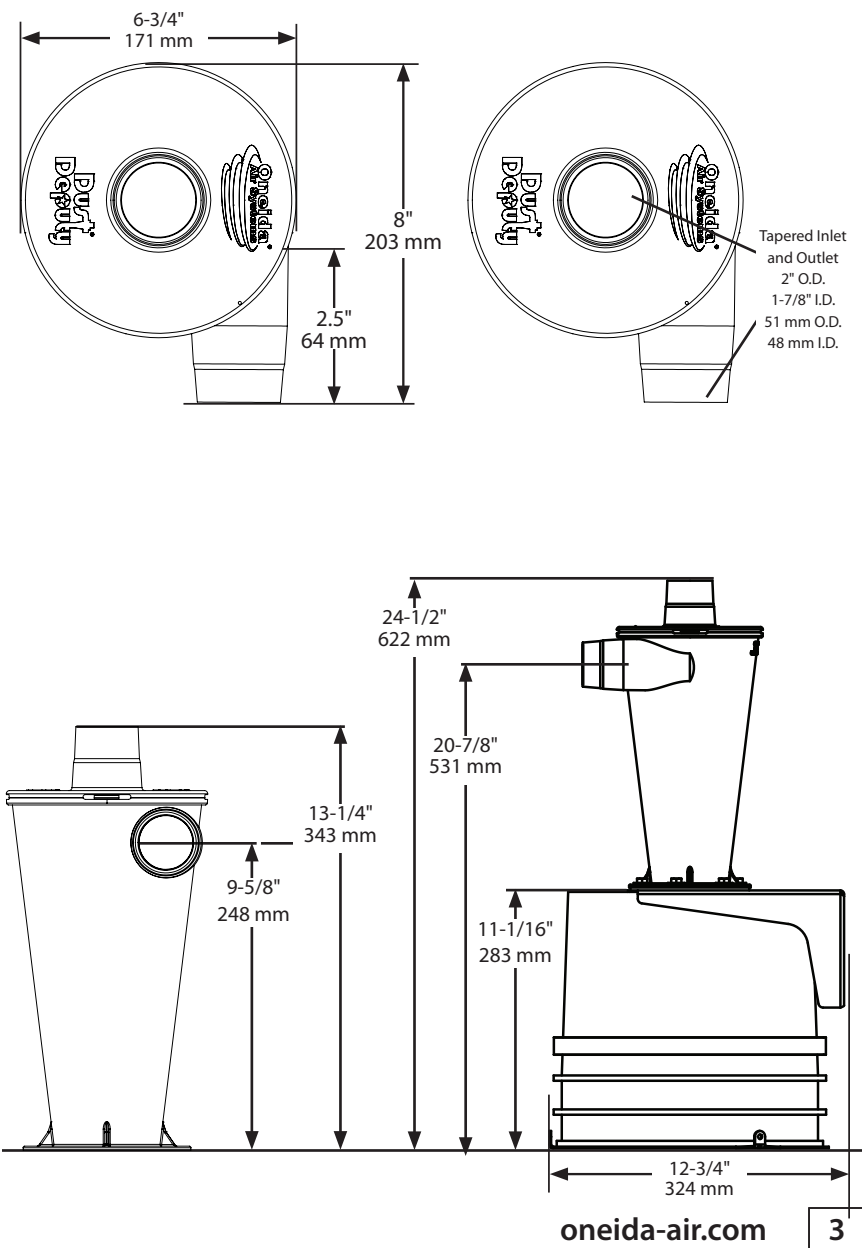
1. Do not vacuum anything that is burning or smoking, such as cigarettes, matches, hot ashes, or any hot substance!
2. Do not vacuum (or use this cyclone near) flammable or combustible liquids, gases, or explosive dusts, such as gasoline or other fuels, lighter fluid, cleaners, oil-based paints, natural 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. Replace bag 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. 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 GUIDE LINES.

System Dimensions

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

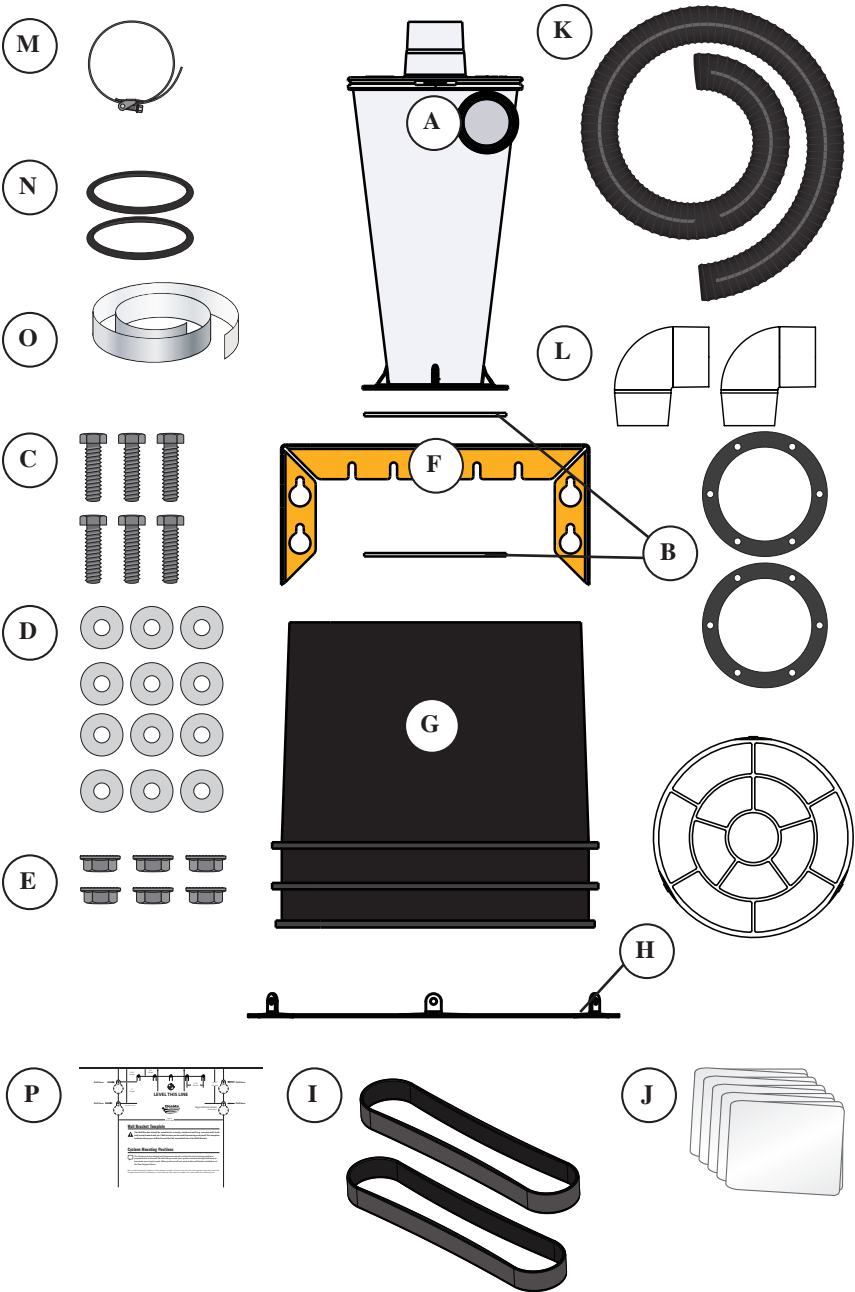


System Contents

ID	Part number	Part description	Qty
A	VXC110002	Anti-Static Cyclone	1
B	AXG000004A	Cyclone Gasket	2
C	AFB250125	1/4" - 20 x 1-1/4" Hex Head Bolt	6
D	AFW025000	1/4" Flat Washer	12
E	AFT000005	1/4" Whiz-Lock Nut	6
F	SMS000002	Wall Bracket	1
G	SDS030500	3-1/2 Gallon Accumulator Bin	1
H	SPG000002	Steel Bottom Grid	1
I	RHS000009	Silicone Band	2
J	AXD284003	3 Mil thick by 28" x 40" Bags	5
K	AXD200072	2" x 72" Hose	1
L	AXD600103A	2" Elbow	2
M	ACB320000	Clamp Band	1
N	AF0990225	O Ring	2
O	VFA050015	Metal Grounding Tape	24"
P	ZBT000002	Wall Bracket Template	1

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

System Contents (Continued)



Assembly Instructions

You will need the following tools:

Stud Finder	Drill Bit (for your wall fastener)	Pencil / Marker
Tack / Center Punch / Nail	Light Adhesive Tape	7/16" Open End Wrenches
Wall Mounting Fasteners *	Tape Measure / Ruler	Wet/Dry Vacuum
Power Drill	Level	Vacuum hose adapters

**You will need to supply your own wall mounting hardware. Use appropriate fasteners for the wall type you are installing your system onto (e.g. lag bolts, drywall anchors, etc.).*

- 1

Identify where you will install the Bagger in your shop. Mark a straight level line 30" from the ground. Align the top of the Template (P) with the marked line [FIG. 1] and temporarily secure the Template to the wall with a tack or non-marking tape. If mounting to a stud reinforced wall center the template on a stud to utilize the reinforcing slots.

Note: The bottom of the Bag (J) should be supported by the floor so that when full, its weight won't pull it off the Bin (G).

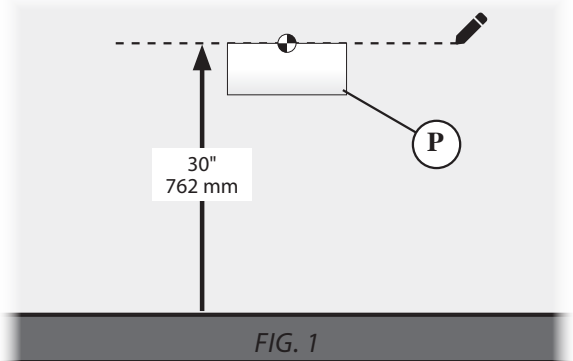


FIG. 1

Assembly Instructions (Continued)

- 2** Place a mark through the Template's (P) paper at each indicated crosshair (at least two keyway holes from opposite ends), then remove the Template from the wall [FIG. 2a] [FIG. 2b].

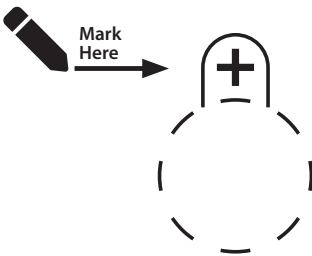


FIG. 2a
Keyhole

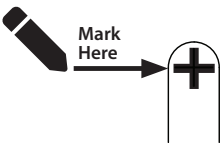


FIG. 2b
Reinforcing Slot

- 3** Using appropriate fasteners for the wall type you are installing your system onto, drill and install fasteners into the wall at all marked locations [FIG. 3].
- a. Maximum Fastener Size: 1/4" diameter for the keyholes
 - b. Maximum Washer Size: 3/4" outside diameter

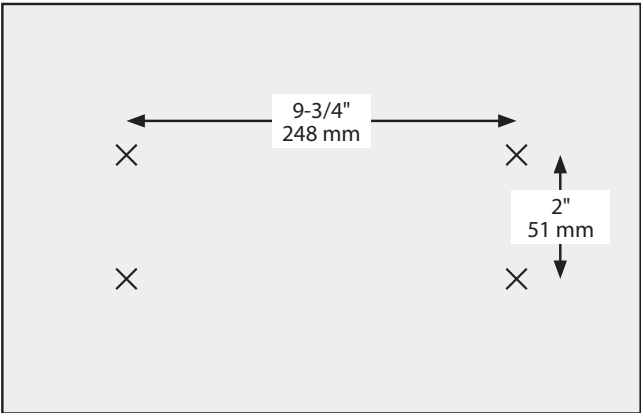


FIG. 3

Assembly Instructions (Continued)

4

Place washers onto each fastener and thread the fasteners into all holes, leaving at least 1/2" outside of the hole to fit the Wall Bracket (F) [FIG. 4].

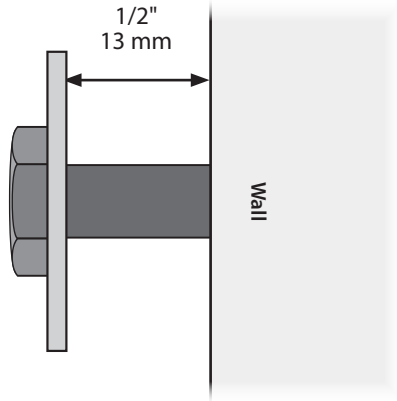


FIG. 4

5

Lift the Wall Bracket (F) up and over the fasteners so that the washer is on the inside of the bracket [FIG. 5].

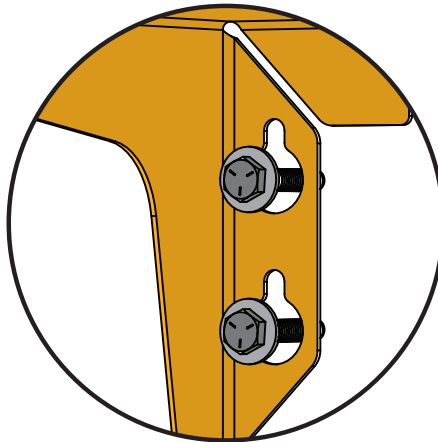


FIG. 5

Assembly Instructions (Continued)

6

Slide the Wall Bracket (F) down so that the fastener is snugly inside the smaller section of each keyhole [FIG. 6].

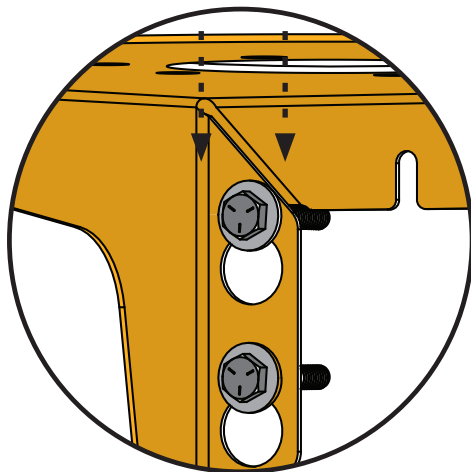


FIG. 6

7

Tighten these fasteners to secure the Wall Bracket (F) to the wall [FIG. 7a]. For further support, drill and install fasteners through as many of the reinforcing slots as necessary. [FIG. 7b]

Note: If installing over drywall, avoid overtightening as it may damage the wall.

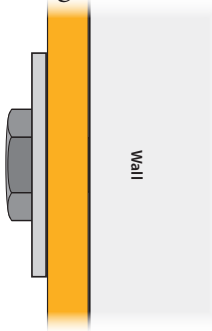


FIG. 7a

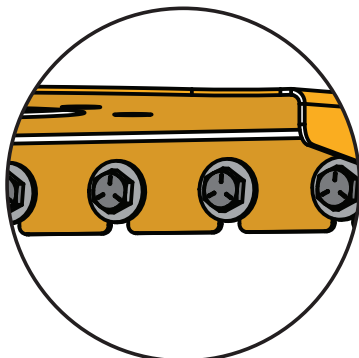


FIG. 7b

Assembly Instructions (Continued)

8

Place a Gasket (B) onto the Wall Bracket (F) and place the Cyclone (A) on top of the Gasket, then align all of the corresponding mounting holes [FIG 8a].

Note: The Cyclone's inlet can be rotated in 60-degree increments to best connect to your hose and/or tools [FIG 8b].

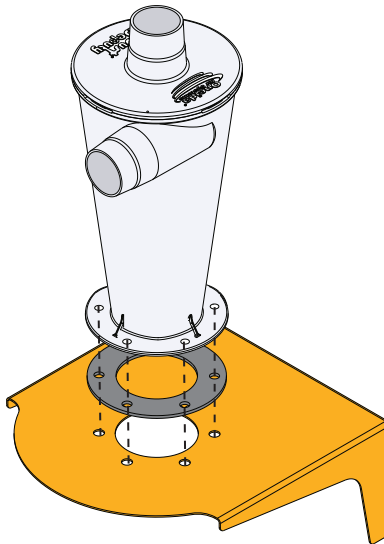


FIG. 8a

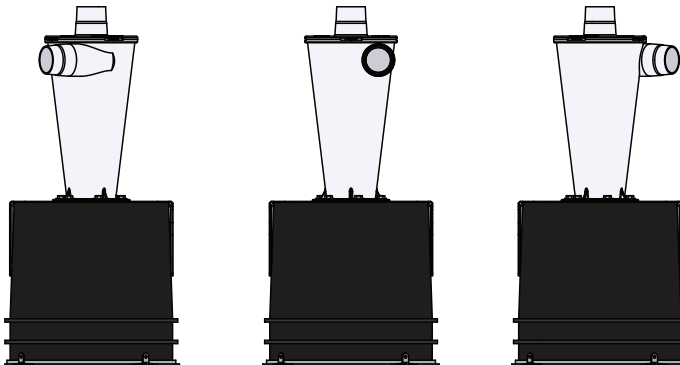


FIG. 8b

Assembly Instructions (Continued)

9

Align a Washer (D) over one of the Cyclone's mounting holes and insert a Bolt (C) through to the Wall Bracket (F) to aid in positioning the remaining components [FIG. 9].

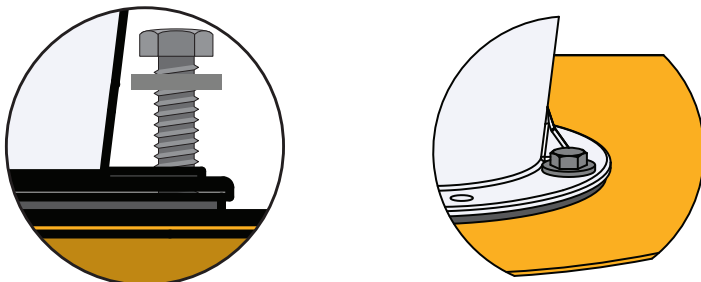


FIG. 9

10

Place a Gasket (B) onto the Bin (G) and raise it up underneath the Wall Bracket (F) so that the descending Bolt (C) extends through the mounting holes on the Gasket and Bin [FIG 10a]. Secure everything in place using a Washer (D) and Whiz-Lock Nut (E) [FIG 10b].

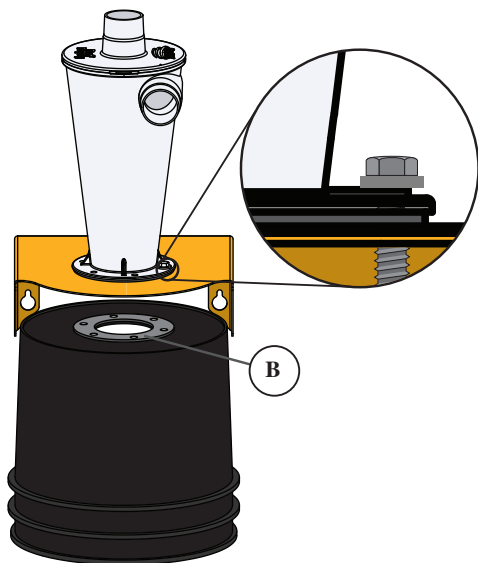


FIG. 10a

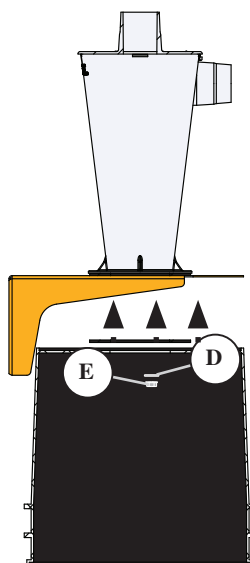


FIG. 10b

Assembly Instructions (Continued)

- 11** Finish securing the Cyclone (A), Gasket (B), Wall Bracket (F), Gasket (B), and Bin (G) together using the remaining five Bolts (C), ten Washers (D), and five Whiz-Lock Nuts (E) [FIG. 11].

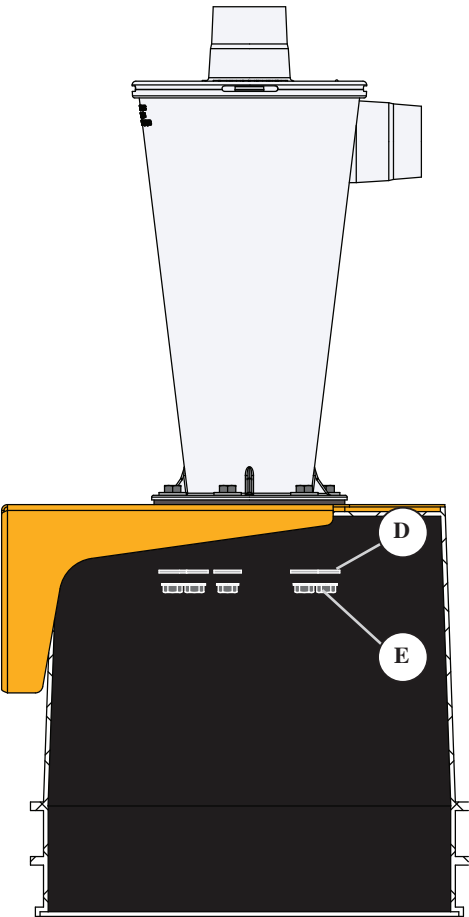


FIG. 11

Assembly Instructions (Continued)

- 12

Attach the Grid (H) to the bottom of the Bin (G) and secure it in place by bending the three tabs inward towards the Bin [FIG. 12].

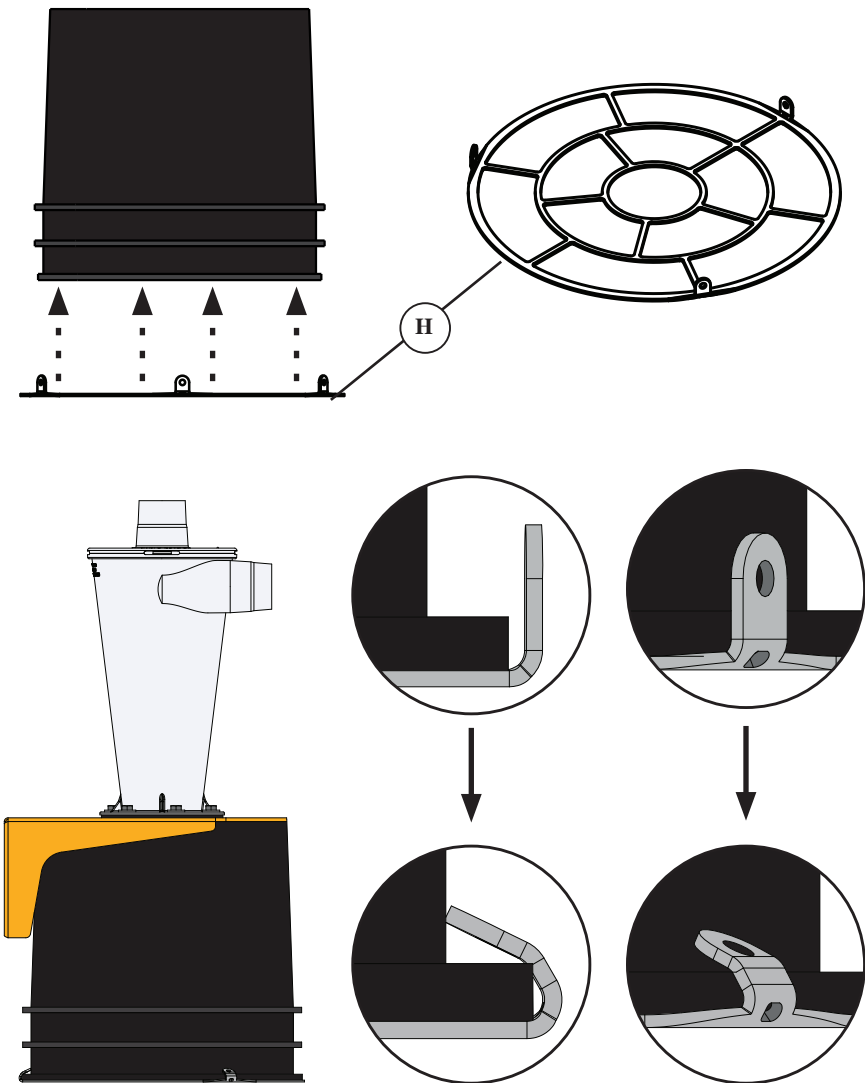


FIG. 12

Assembly Instructions (Continued)

13

Put a Silicone Band (I) onto the Bucket (G) [FIG. 13a].
Unfold an empty Bag (J) and wrap it around the bottom of the Bucket (G) and secure it in place with the Silicone Band.

Note: Replacement bags must be at least 3 mils thick. Thinner or lighter weight bags will be sucked through the metal grid and into the accumulator bin. See Accessories page for replacement bags needed for your system.

Silicone Band is shown in white for illustration purposes.

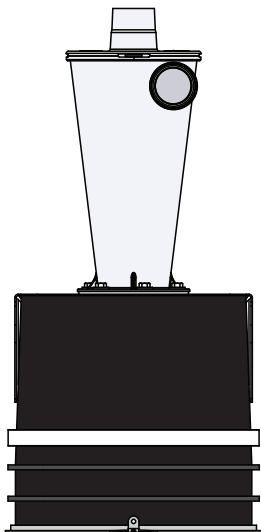


FIG. 13a

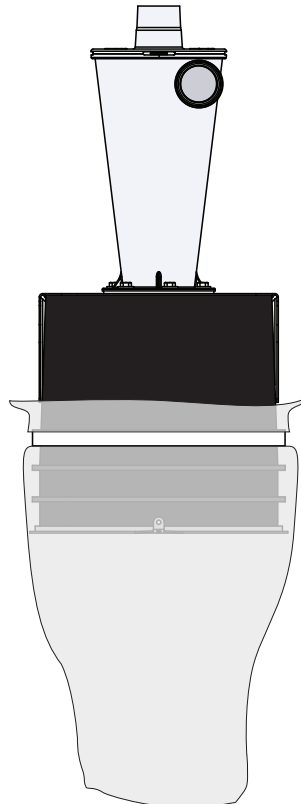


FIG. 13b

Assembly Instructions (Continued)

14

Attach one Elbow (L) to the top outlet of the Cyclone (A) and affix Hose (K) to the tapered end of the Elbow. Attach the other open end of Hose to the second Elbow and attach to the inlet of your wet dry vacuum.

Connect the Cyclone's inlet (sideways facing port) to your dust producing tool with your vacuum's hose or ductwork [FIG. 14a].

Note: If your vacuum hose is not tight on the inlet or it keeps pulling off, use the Clamp Band (M) and/or the two O-Rings (N) [FIG. 14b] [FIG. 14c].

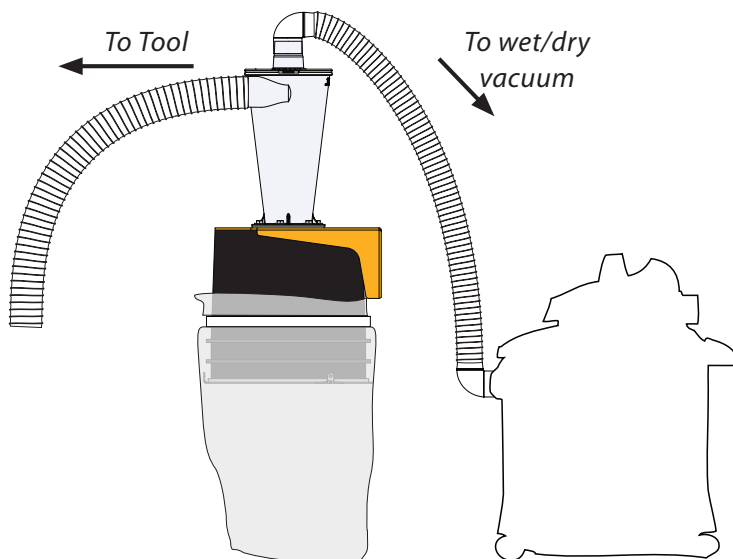


FIG. 14a

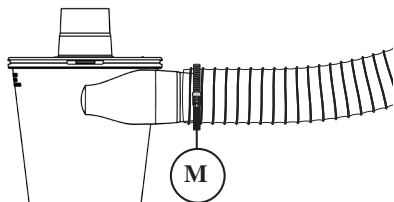


FIG. 14b

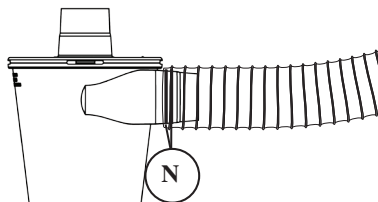


FIG. 14c

Assembly Instructions (Continued)

15

Installation is complete and your unit is ready to turn on.

When first using the Dust Deputy Bagger, cycle the power on your vacuum every 15-30 minutes to release debris into the liner bag below the dust bin. This helps to get an idea of how often it needs to be emptied. If the drum becomes overfilled, the dust will be sucked into the cyclone and into the wet/dry vacuum. When the bag is 2/3 full it will need to be replaced. [FIG. 15].

Note: Avoid dead-heading (blocking the vacuum's hose on your system) as the bag may be pulled up through the grid.

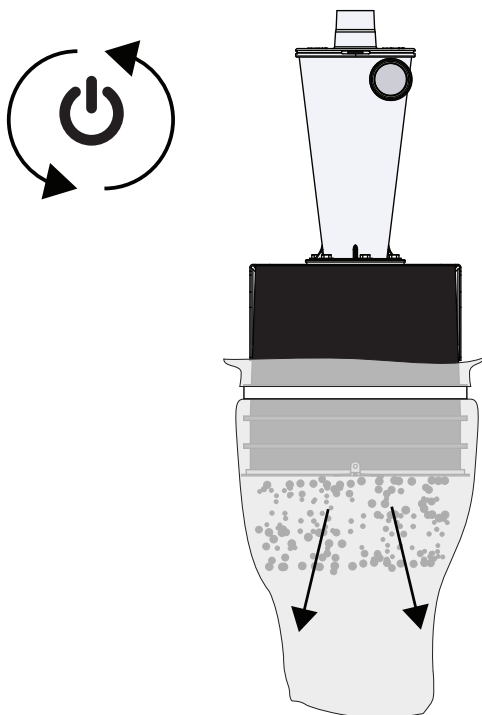


FIG. 15

Optional Grounding Instructions



Recommended for fine dust situations or electronically sensitive applications.

16

Install the Metal Tape (O) to the Cyclone (A) so that the inlet, outlet, and flange are attached by a continuous, conductive path. The tape should wrap 1/4" around the edge of each opening [FIG 16].

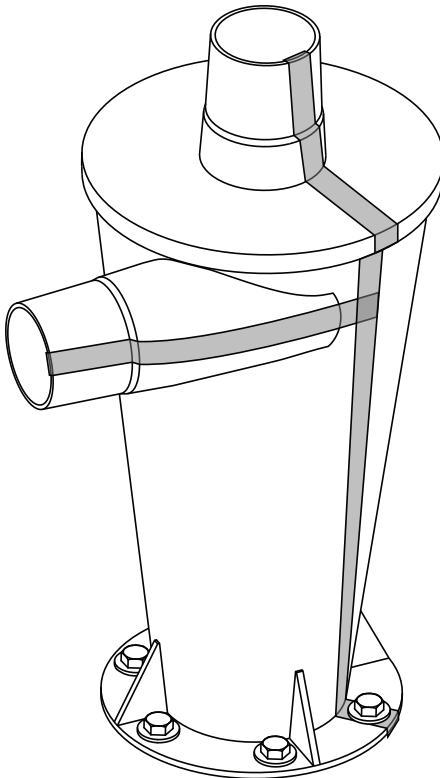
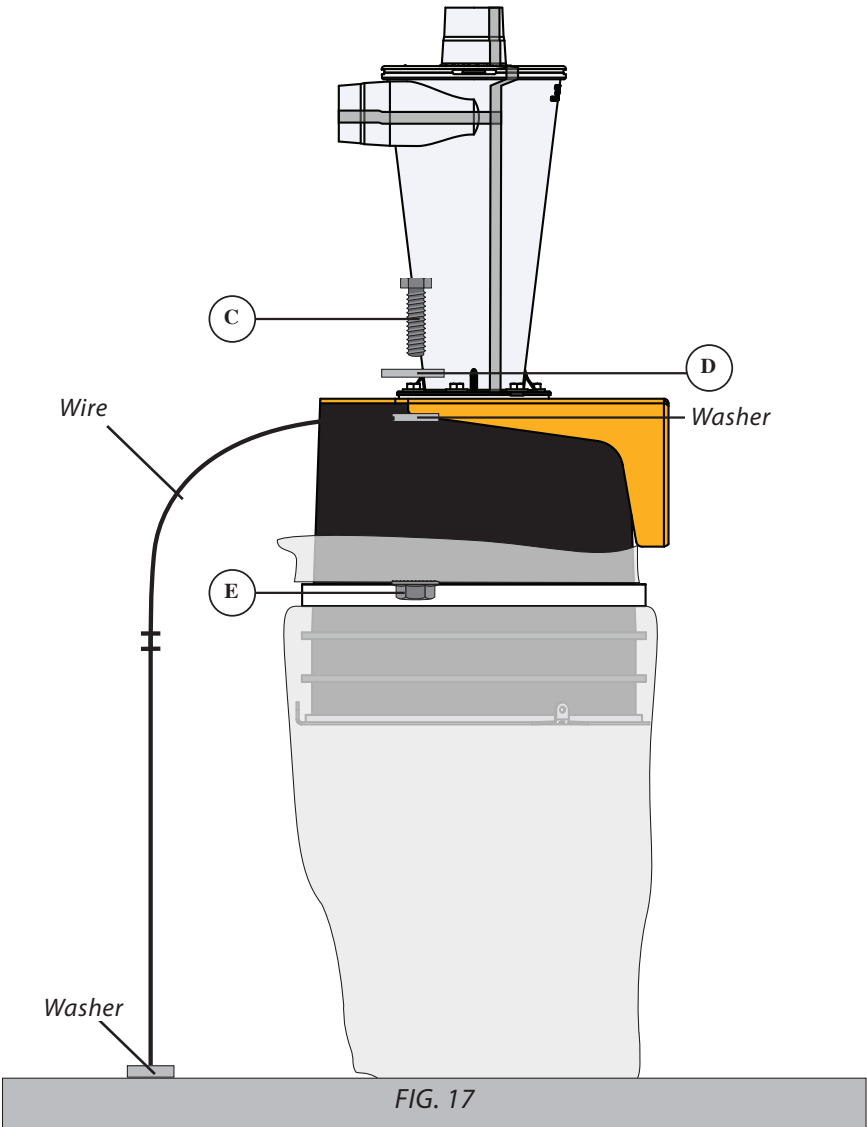


FIG. 16

Optional Grounding Instructions

- 17

For added grounding, attach a self-supplied wire with a ring terminal on one end and a washer tied to the other end when installing one of the bolts from step 2. The wire must be long enough for the washer to lie on the floor [FIG 17].

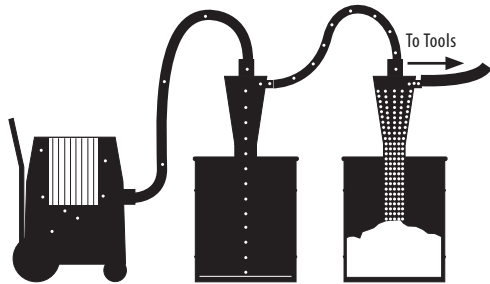


Adding Cyclones to Improve Performance

Attach in Series

Increases particle efficiency and helps in very fine dust situations.

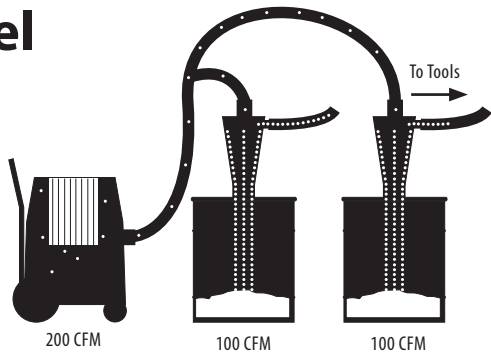
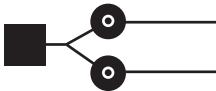
Top View



Attach in Parallel

Same particle efficiency but increases the CFM.

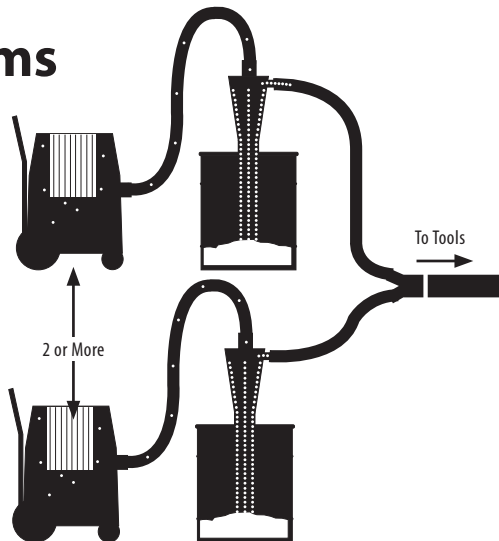
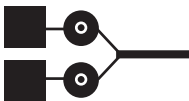
Top View



Multiple Vacuums

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

Top View



Troubleshooting

PROBLEM	CAUSE	SOLUTION
Not separating well. (Only a tiny amount of dust should reach the vacuum)	Air leaks in the system	<ol style="list-style-type: none">1. Check for leaks between the wall bracket and the dust bin.2. Check for holes or leaks in the bag.3. Check for holes or leaks at the silicone band connection.4. Check for leaks along the flange of the cyclone attached to the wall bracket.5. Check for air leaks at hose connections.
Material swirls in cyclone and won't drop into the accumulator bin.	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.
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.

Troubleshooting Air Leaks



Even a small leak can significantly affect the overall separation performance of the cyclone [FIG. 18]. If you can't audibly pinpoint where the leak might be coming from, one of the simplest ways to check for air leaks is with a smoke test. You can usually find smoke test kits at any hardware store (typically in the HVAC section). While the system is running move the smoke tester around the unit. If at any time you see the incense smoke being drawn into the system, you've found an air leak that needs to be sealed.

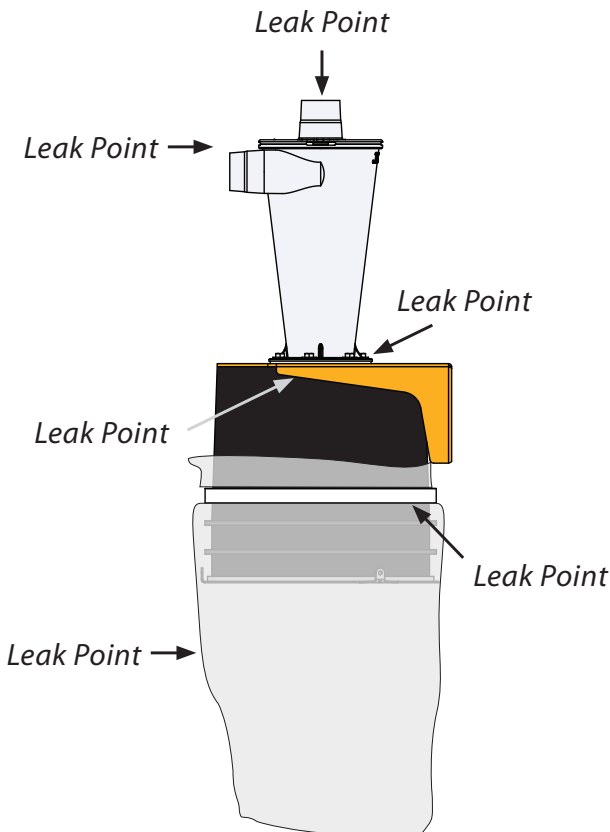


FIG. 18

FAQ

What do I need to hook up my Dust Deputy to my vacuum?

Our Dust Deputy Bagger Kit is ready to go right out of the box for most wet/dry vacuums. However, not all wet/dry vacuums are identical and may need an adapter to attach. Please visit our site for adapters at oneida-air.com/flex-hose/adapters.

You can also find adapters at your local hardware store. Look in the plumbing section for a sleeve or adapter. There are many different sizes and configurations.

Can I use this cyclone with smoldering or abrasive debris?

No. This cyclone is designed for use with light debris such as wood dust. For applications with highly abrasive or smoldering materials, we recommend our steel, Heavy-Duty Dust Deputy kits instead.

What is an anti-static material?

This term refers to the range of conductivity that a material has. Anti-static materials range from 10^{10} - 10^{12} Ohms.

The top portion of the Dust Deputy is detached, is there a way to fix it?

Please contact our customer service department for assistance at 1-866-387-8822 or support@oneida-air.com

FAQ (Continued)

Will the Dust Deputy cyclone work if my tool has its own fan blower?

In most cases, yes - but the cyclone's efficiency will vary based on whether your vacuum is also turned on.

The Dust Deputy cyclone needs a consistent airflow rate to "spin" the dust out of the airstream; If your tool's fan blower is pushing air in while your vacuum is also sucking air out, this can disrupt the airflow rate and reduce the cyclone's separation performance.

In many cases, the fan blower on tools (such as planers) cannot be turned off. If that is the case for you, try collecting your dust with the vacuum turned off. In doing so you will be creating a positive pressure system as the tool's fan blower pushes air through the Dust Deputy cyclone. This method may not work with every vacuum.

What is the minimum air watts needed for the Dust Deputy?

Rather than worrying about what specs your vacuum needs (e.g. air watts, cfm, static lift, etc.), we at Oneida Air Systems have a much simpler approach - simply match the size of your vacuum's inlet to the size of the Dust Deputy cyclone's ports.

The Dust Deputy cyclone's tapered 2" ports are designed to work with any make and model wet/dry vacuum on the market today, regardless of horsepower, wattage, etc. Most vacuums will have an inlet ranging from 1.5" to 2.5" in diameter - perfect for our cyclone.

Keep in mind that every component installed onto your vacuum will have an effect on the system's suction power. That includes your hose, hose attachments, adapters, elbows, couplers, etc.

FAQ (Continued)

Can I use this upstream of a 650 CFM single stage dust collector?

No. The smaller Dust Deputy cyclone is intended for use with HIGH pressure and LOW airflow systems, such as wet/dry vacuums, with port sizes 2.5" diameter and smaller. It would not be suitable for a HIGH airflow, LOW pressure system (i.e. dust collector).

You would want to look at our line of Super Dust Deputy cyclones instead. Match the cyclone based on the size of your dust collector's intake.

Can I use the Dust Deputy with my 4" hose / port?

No. The standard Dust Deputy cyclones are designed for use with ports/hose that are 1" to 3" in diameter.

Connecting 4" tools to the Dust Deputy cyclone's 2" ports will result in significant losses in airflow and suction power. Larger ports (4" and larger) will instead require one of our Super Dust Deputy cyclones.

Accessories



Heavy-Duty Plastic Liner Bag

AXD284003

- Heavy thickness of 3 Mil protects against tearing from wood chips or other sharp debris.
- Fast and easy waste disposal.
- 28" x 28" x 40"



1.25" x 1.5" Hose Adapter Kit

AKD000000

- Includes reducers, adapters, and O-rings for connecting smaller vacuum hoses to standard 2" Dust Deputy cyclone ports.



2.5 Tapered Static Conductive Vacuum Hose Elbow

AXD600103

- For creating smooth 90 degree hose turns with minimal loss of air performance. Tapered on one end for easy friction-fit hose connections.



2.5" Vacuum Hose Coupler

AXD225225

- Used for connecting separate lengths of 2.5" vacuum hose.
- Slips over 2.25" O.D. hose cuffs and features a inner beaded section to complete the friction fitting.

Accessories (Continued)



2.5" Turnkey Hose Clamp

#ACB360000

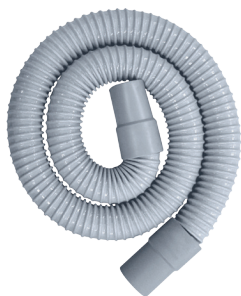
- Secures hose fitting in place to eliminate disconnects when pulling or flexing the hose.
- Fits hoses and port sizes from 2" to 2-1/2" in diameter.



2.5" to 2" Vacuum Hose Screw-Cuff

#VSHCEE001

- For connecting 2.5" I.D. to 2" O.D. hose fittings. Can also thread onto raw 2.25" O.D. vacuum hose.
- Constructed from soft, flexible PVC for lasting durability. .



2" x 10' Wire Reinforced Vacuum Hose

#AXD400000

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



2" ID to 2.25" OD Vacuum Hose Adapter

#AXD200225

- Soft PVC hose fitting with smooth interior, ideal for making friction fit connections between our Dust Deputy cyclones and 2.5" vacuum hoses.

Warranty Information

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

Oneida Air Systems®, Inc. (OAS) warrants the Dust Deputy 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 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 purchase
of this American made product!**

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