



The Industry Leader in Dust Collection

Ultimate Dust Deputy Systainer Cyclone Separator Kit

AXD000009



U.S. Pat.
6833016
RE40048
7282074
D638179

Rev: 04/23/2020

Appearance may vary slightly

Doc. #ZBM000036ULT

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. 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 GUIDE LINES.

Maintaining Grounding Pathways

The inlet of Festool® dust extractors incorporates a connection to the earth ground to provide a safe discharge pathway for static electricity that may be generated when wood dust moves through hose or plastic parts. This grounded inlet works in conjunction with anti-static hoses. Oneida wants to make certain that our Ultimate Dust Deputy® customers understand that there is a grounding pathway that must be maintained.

Oneida has always used static dissipating components in the Ultimate Dust Deputy. The UDD has been third-party tested to function as specified.



CAUTION! DISCONNECT VACUUM FROM ELECTRICAL SOURCE BEFORE ANY OF THE FOLLOWING TESTS ARE PERFORMED.

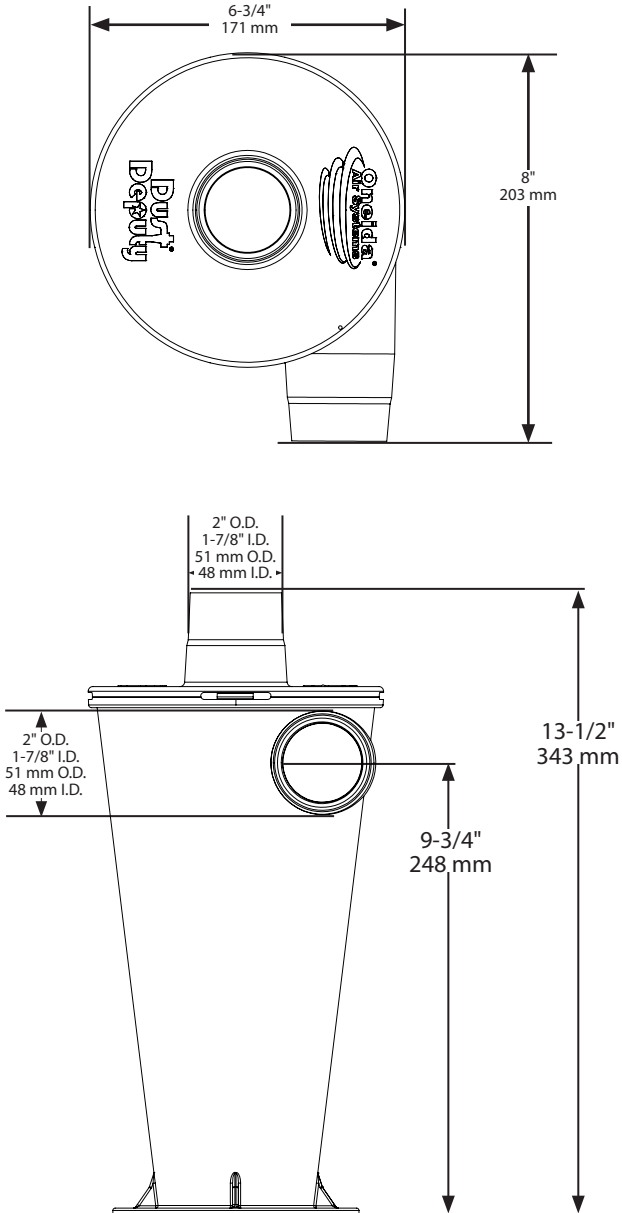
1. Use only tested anti-static components. Non anti-static hoses, couplers or connectors could interrupt the anti-static pathway.
2. Make certain that the ground plug in your house wall socket is properly wired and working.
 - a. The anti-static pathway relies on the ground plug in your outlet to be functional.
 - b. Do not use two-prong to three-prong adapters, extension cords without a ground prong, etc.
3. Install the Ultimate Dust Deputy per our instructions. This will ensure the anti-static pathway is maintained.
4. Verify continuity through the anti-static pathway.
 - a. Continuity can be checked using a multi-meter that reads in mega ohms (see diagram below for acceptable values).
 - b. CAUTION! Make sure that your vacuum is disconnected from any electrical source before proceeding.
 - c. Check from end of hose to the earth ground prong on electrical plug.
5. Experiencing any static problems likely means the grounding path is interrupted. Be certain this is resolved using these instructions or call us for assistance.

This diagram shows the continuous pathway from the grounding prong on the electrical plug to the hose's inlet.



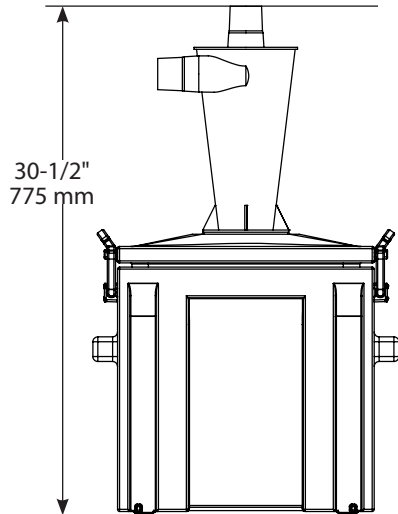
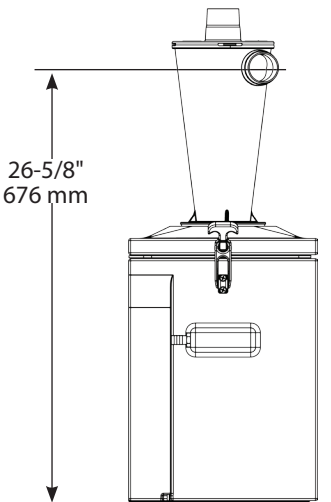
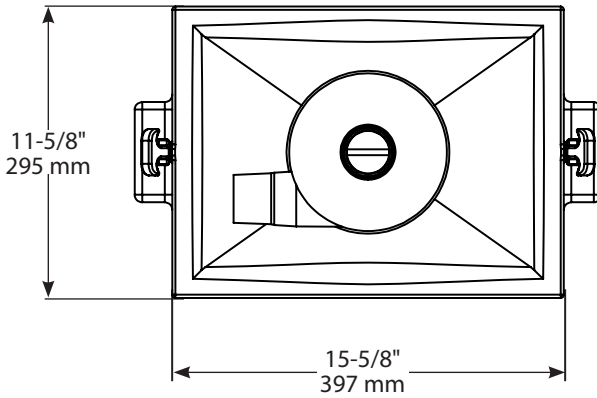
System Dimensions

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



System Dimensions

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



System Contents

ID	Part number	Part description	Qty
A	VXC110009	Static Dissipative Cyclone with 2" Inlet and Outlet	1
B	SDS090000	9 Gallon Dust Bin and Lid	1
C	AXD200055	2" x 55" Vacuum Hose	1
D	RGZ000000*	Dust Bin Gasket	4'
E	RLH000009*	1/4" NPT x 1/2" Barb Straight Fitting	1
F	VRV050500	1/2" Clear Vinyl Tubing	5'
G	AHX000009	Hardware Kit	1
G1	AXG000004A	Cyclone Gasket	1
G2	AFL000007	Rubber Latch	2
G3	ACB320000	Hose Clamp Band	1
G4	WGX000000	Wire Loop	2
G5	RMF000060A	Foam Block	1
G6	VFA050015	Static Conductive Tape	2'
G7	AXD600103	2" SD Elbow	1
G8	AXD600104	2" SD Elbow with 1/4" NPT x 1/2" Barb Straight Fitting	1
G9	RCP050001	1/2" Vinyl Cap	2
G10	AXD600300	9-17 Gallon Drum Liner Bag	3
G11	AHK000009	Hardware Pack	1
G11A	—————	1/4" - 20 x 3/4" Phillips Pan Head SEMS Screws	6
G11B	—————	10-32 x 1" Phillips Pan Head SEMS Screws	4

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

* Some components are pre-installed at the factory and are listed here for your convenience.

You will need the following:

- Phillips Head Screwdriver
- Wet/Dry Vacuum
- Vacuum Hose
- Vacuum hose adapters

System Contents

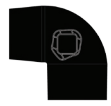
G10



C



G7



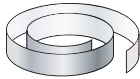
G3



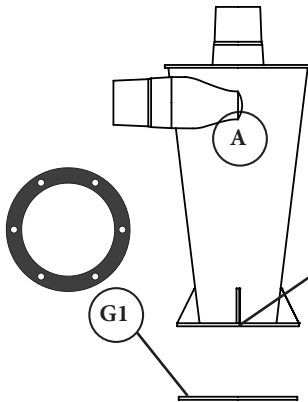
G8



G6



F



G11A



G4



G4



G2



G2

G11B



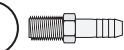
G11B



G11B



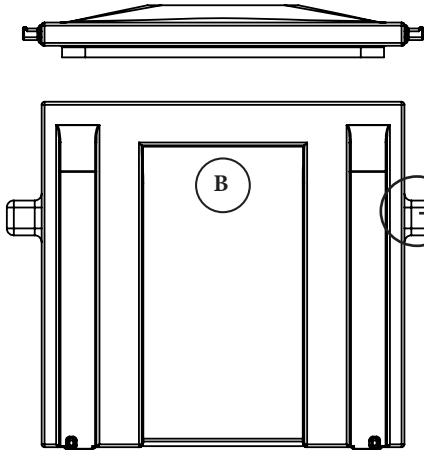
E



G9



G5



Assembly Instructions

1

Thread the Wire Loops (G4) through the Rubber Latches (G2) and secure to the Dust Bin (B) as described in the steps below to ensure proper static grounding [FIG. 1].

- Push the Rubber Latch (G2) through the main body of the Wire Loop (G4).
- Thread the Wire Loop (G4) back through the circular hole at the top of the Rubber Latch (G2).
- Thread the Wire Loop (G4) back through the long oblong hole in the Rubber Latch (G2) so the Wire Loop's terminal aligns with the latch's top screw hole.
- Insert two Screws (G11B) through the screw-holes on the Rubber Latch (G2). The topmost Screw should be inserted through both the Rubber Latch as well as the terminal on the Wire Loop (G4).

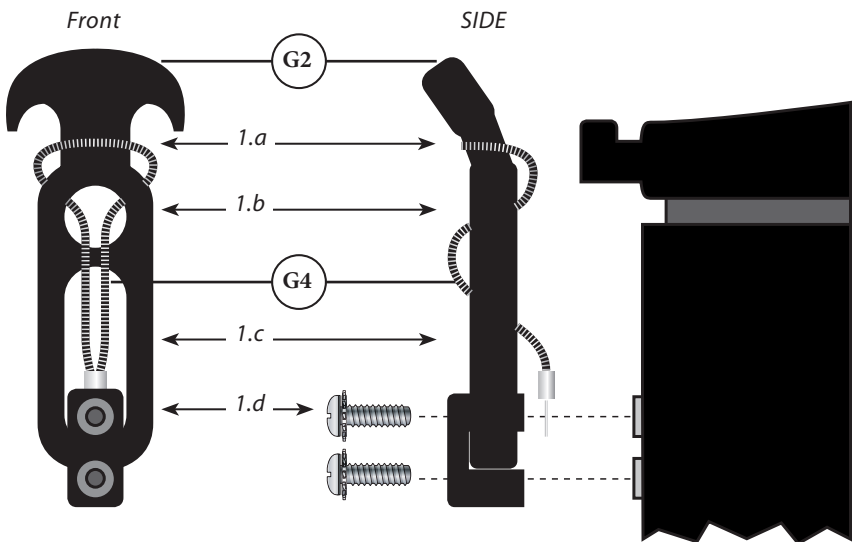


FIG. 1

Assembly Instructions (Cont.)

- 2** With a Phillips head screwdriver, attach the Rubber Latches (G2) with the Wire Loops (G4) to the Dust Bin (B) using the provided Screws (G11B) [FIG. 2].

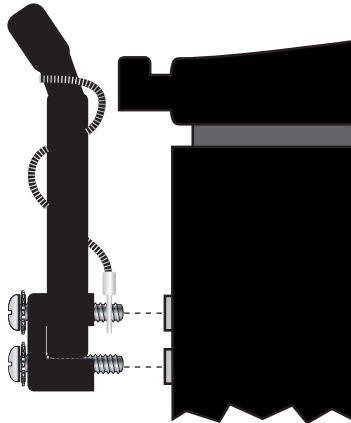


FIG. 2

- 3** Make sure that the handle of the Rubber Latch (G2) curves downward when attached [FIG. 3].

Note: When the latch assembly is raised up the T-style handle should point out and away from the Dust Bin (B).

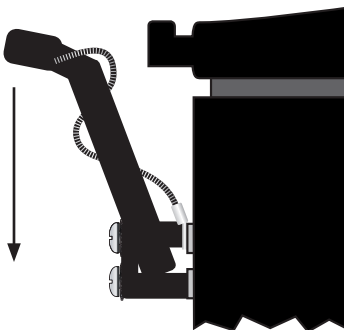


FIG. 3

Assembly Instructions

4

Insert the Foam Block (G5) into the hollow handle space where the Straight Fitting (E) is installed within the Dust Bin (B). This prevents material from being sucked into the Straight Fitting (E) [FIG. 4].

Note: Clean the foam block regularly to ensure that airflow to the valve is not restricted.

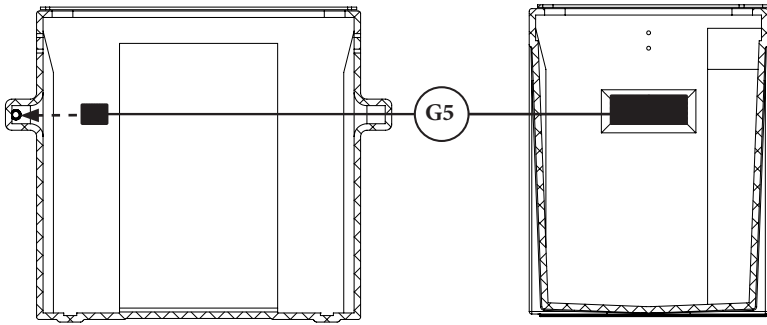


FIG. 4

5

If using a Bag, place a Liner Bag (G10) into the dust bin (B), making sure to fully expand the bag by tucking it into the corners. Fold the top of the bag over the top of the dust bin [FIG. 5].

Note: The bag should lie flat along the top edges of the bin without significantly bunching up.

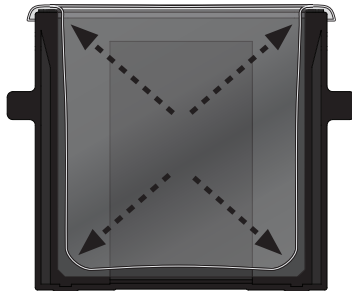


FIG. 5

Assembly Instructions (Cont.)

- 6** Place the lid onto the Dust Bin (B) and pull the Rubber Latches (G2) up so that their topmost circular hole slips over the tab protruding from each side of the lid [FIG. 6].

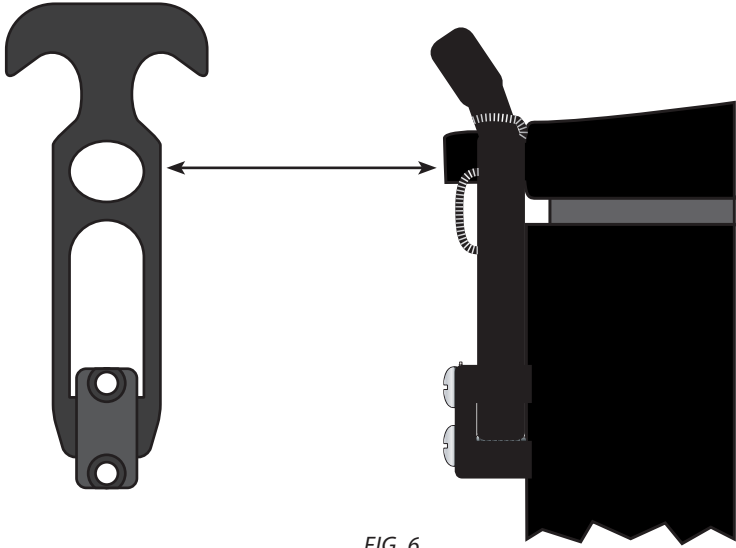


FIG. 6

- 7** Place Cyclone Gasket (G1) on top of the Dust Bin's Lid (B), making sure to line up the bolt holes in the gasket with the threaded inserts on the lid [FIG. 7].

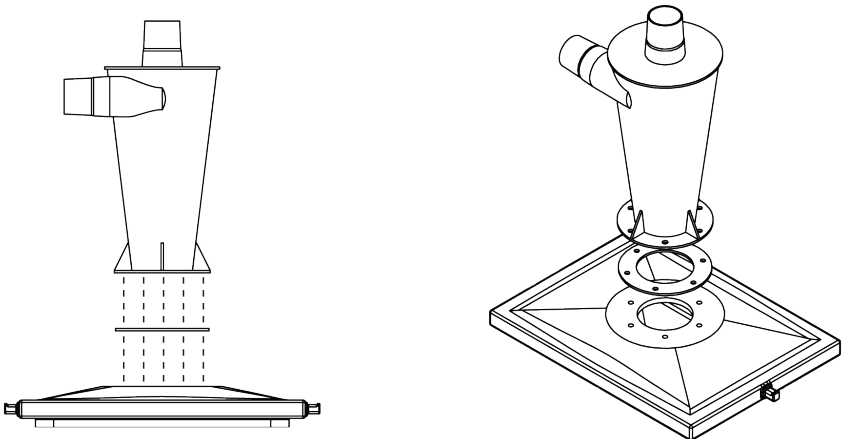


FIG. 7

Assembly Instructions (Cont.)

8

With a Phillips head screwdriver, attach the Cyclone (A) to the Dust Bin Lid (B) using the provided Screws (G11A). The cyclone's side-facing inlet should be pointed towards the shorter side of the lid [FIG. 8a]. Tighten the Screws in a crisscrossing star pattern [FIG. 8b].

Note: Do NOT over tighten.

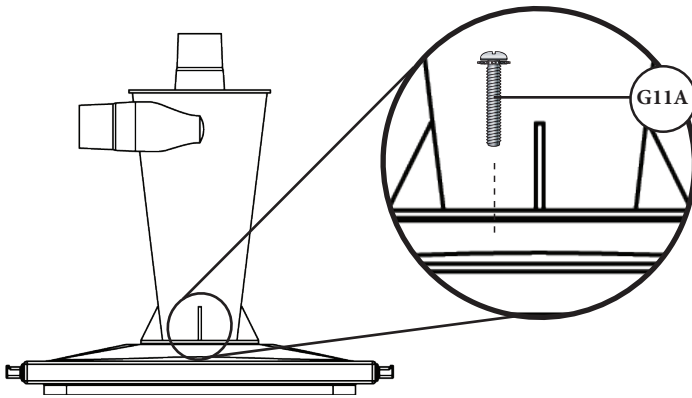


FIG. 8a

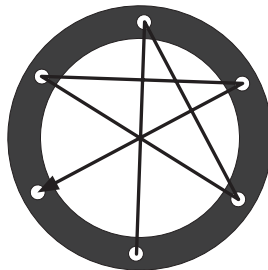
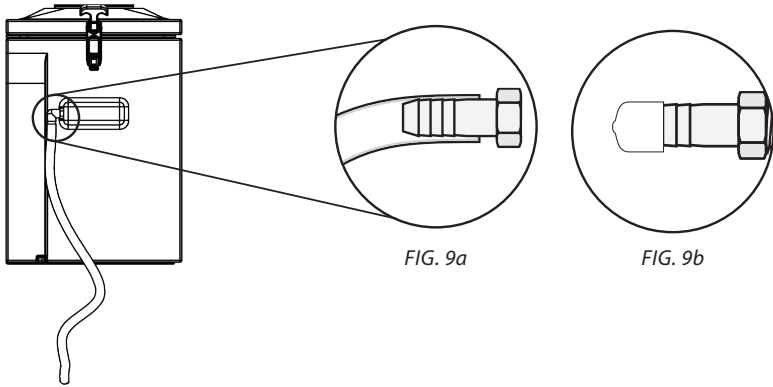


FIG. 8b

Assembly Instructions (Cont.)

- 9** If using a Bag, insert one end of the 1/2" Clear Vinyl Tubing (F) into the Straight Fitting (E) located on one of the Dust Bin's (B) handles [FIG. 9a]. Press the Clear Vinyl Tubing (F) in firmly. Tubing can be cut to desired length.

Note: If not using a bag, insert 1/2" Vinyl Cap (G9) into the Straight Fitting (E) located on one of the Dust Bin's (B) handles [FIG. 9b]



- 10** Insert one end of the 1/2" Clear Vinyl Tubing (F) into the 2" SD Elbow's Nylon Straight Fitting (G8) [FIG. 10a]. Press the Clear Vinyl Tubing (F) in firmly. Tubing can be cut to desired length.

Note: If not using a bag, insert 1/2" Vinyl Cap (G9) into the Straight Fitting (E) located on one of the Dust Bin's (B) handles [FIG. 10b].

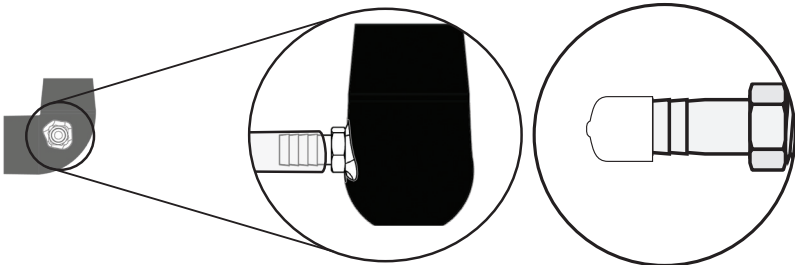


FIG. 10a

FIG. 10b

Assembly Instructions

- 11** Position the 2" SD Elbow with Straight Fitting (G8) in one of two locations: over the top port of the Cyclone (A) [FIG. 11A] or into your vacuum's grounded inlet [FIG. 11B]. Choose a location that best accommodates the length of Vinyl Tubing (F) with your system.

Place the other 2" SD Elbow (G7) into the remaining location.

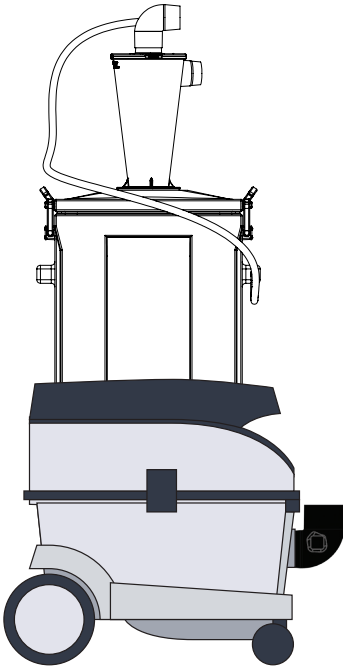


FIG. 11a

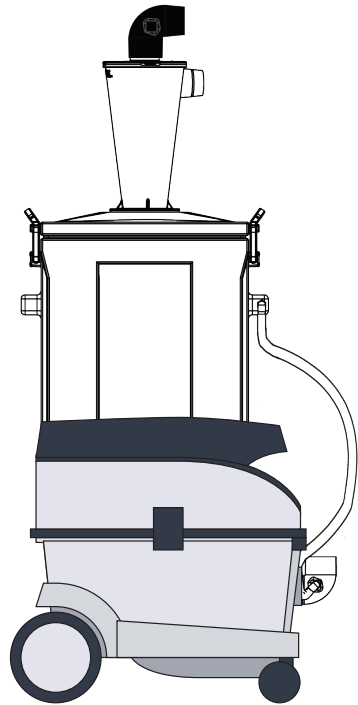


FIG. 11b

Assembly Instructions (Cont.)

- 12** Affix Vacuum Hose (C) onto 2" SD Elbow (G7) . Attach the other open end of Vacuum Hose (C) onto the tapered end of the 2" SD Elbow with Straight Fitting (G8) [FIG. 12].

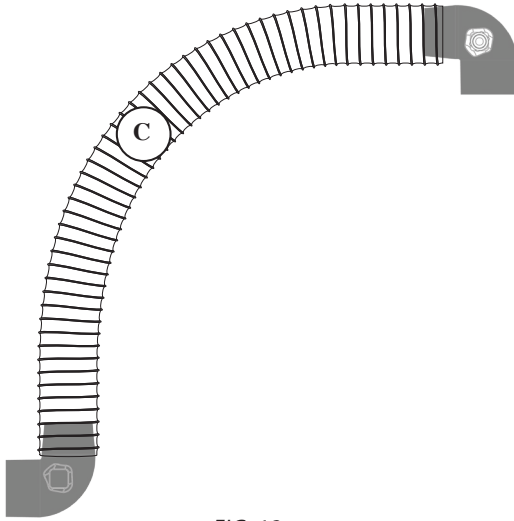


FIG. 12

- 13** Attach your vacuum's standard hose to the Cyclone's (A) side-facing inlet. Secure with Hose Clamp (G3) if necessary [FIG. 13].

Note: Make sure your hose is pushed firmly and fully onto the inlet so that it does not slip off. The inlet is tapered and shouldered to provide a firm friction fit.

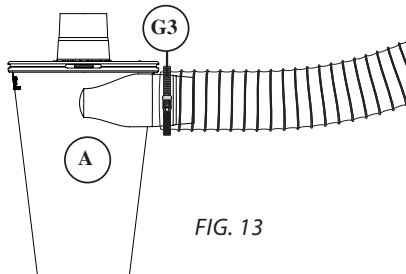


FIG. 13

Adding Cyclones to Improve Performance

Attach in Series

Increases particle efficiency and helps in very fine dust situations.

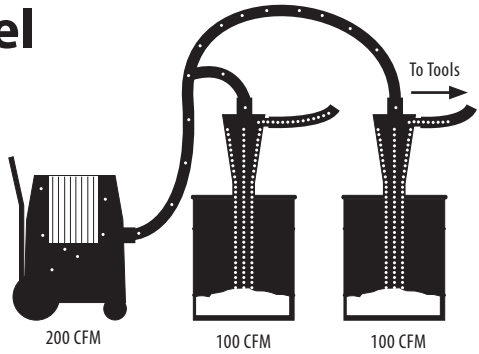
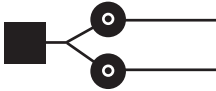
Top View



Attach in Parallel

Same particle efficiency but increases the CFM.

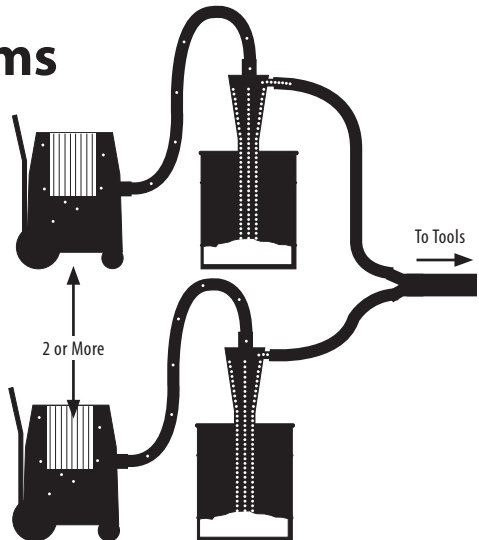
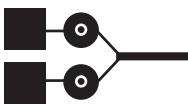
Top View



Multiple Vacuums

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

Top View



FAQ

Does the Dust Deputy work with the new Festool CT units that have the T-Loc system to hold the systainer?

Yes! The Ultimate Dust Deputy is adaptable to all Midi and Mini Festool vacs. The new vacs do require you to rotate the systainer box 180 degrees.

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.

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.

Troubleshooting

PROBLEM	CAUSE	SOLUTION
Not separating well. (Only a tiny amount of dust should reach the vacuum)	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 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.
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. 5. Ensure the static grounding pathway is maintained via the use of conductive tape and/or metal wire.
The dust bin doesn't fit on my Festool® CT Mini/CT Midi Vacuum	Has the same footprint as the Systainer tool boxes and will protrude slightly over the edge of the CT Mini and CT Midi vacuums	<ol style="list-style-type: none"> 1. For additional security with these vacuum models, we recommend holding the Ultimate Dust Deputy down with ratchet straps or bungee cords.

Troubleshooting Air Leaks



Even a small leak can significantly affect the overall separation performance of the cyclone [FIG. 14]. 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.

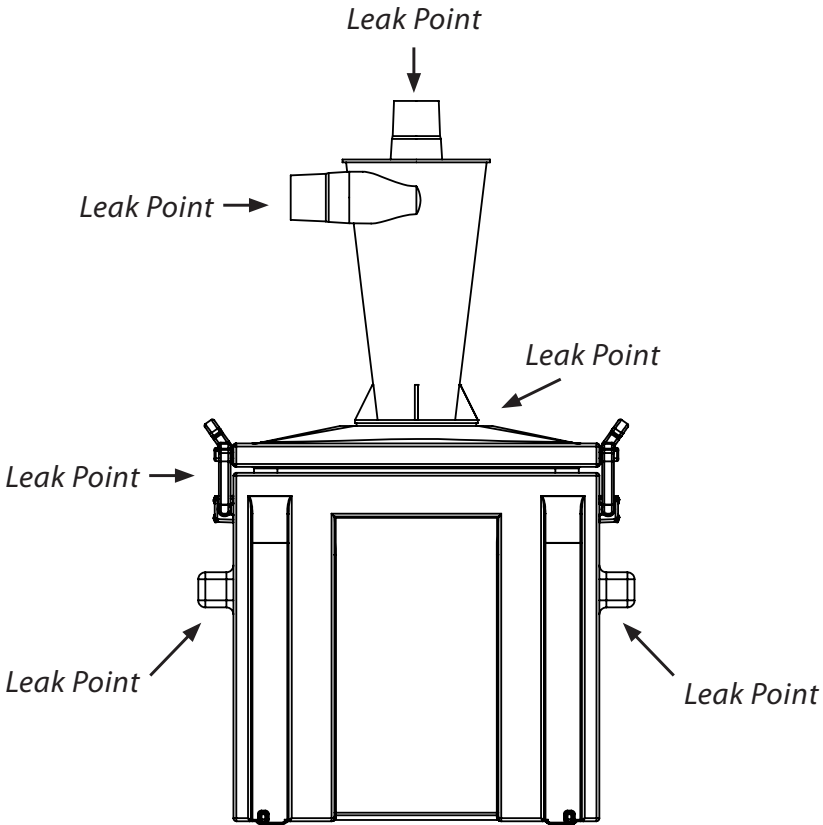
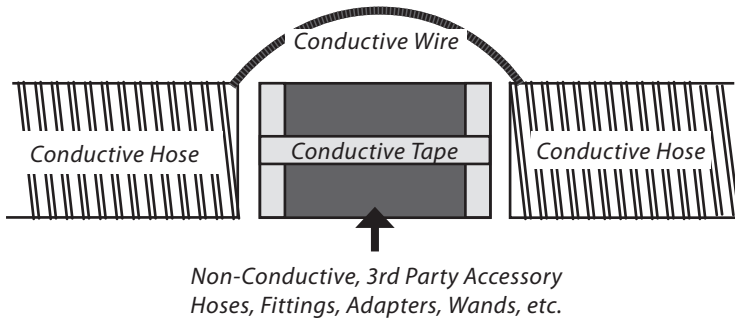


FIG. 14

Grounding Accessories

Oneida Air Systems always recommends using static conductive hoses and components with your cyclonic vacuum system.

If a non-conductive component is used, the grounding pathway must be continued via Static Conductive Tape (G6) or wire to bridge the gap between the non-conductive components. By bridging this gap, the anti-static grounding pathway will be maintained



Accessories



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.



9-17 Gal. Heavy-Duty Plastic Liner Bags

#AXH000001

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



2.5" Tapered SC Vacuum Hose Elbow

AXD600103

- For creating smooth 90 degree hose turns with minimal loss of air performance
- Molded from an industrial static conductive resin to maintain your vacuum's static grounding pathway.

Accessories (Cont.)



Universal Dust-Free Router Hood

#AXH000001

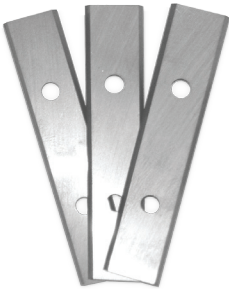
- Collects router waste from both above and below the bit, virtually eliminating post-project cleanup.



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.



Tungsten-Carbide Pull Scraping Blade Package

#AXS000002

- Industrial tungsten carbide blades for everyday scraping in a reverse pulling motion.



Steel Angled Push Scraping Blade Package

AXS000003

- Durable, angled carbon steel blades for use in detailed scraping in a forward, pushing motion.

Warranty Information

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

Oneida Air Systems®, Inc. (OAS) warrants the Ultimate 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. 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 in this
American Made Product!**

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.

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