ZBM000033

The SMART™ Dust Collector

9_2010

Powerful ▪ Economical ▪ Made in the USA

Appearance may vary sligthly.

U.S. Patent #7,550,021 B2
U.S. Patent #D604,464 S
Smart System Pat. Pend.
Flame Guard Pat. Pend.
Dust Sentry Pat. Pend.

THE IWF 2010 Challengers Award®
FINALIST

3hp Smart Dust Collector Owner's Manual - XXS030100

1.800.732.4065 1001 W. Fayette St., Syracuse, NY 13204 www.oneida-air.com

Oneida Air Systems, Inc. was founded in 1993 to bring cost effective, state-of-the-art dust collection systems and material handling ductwork to woodworking shops. OAS designs and manufactures industrial grade dust collection systems that create a practical, safe and healthy work place environment.

Thank You for Choosing an Oneida Air Systems Product!

OAS manufactures and sells dust collection equipment only. Our qualified technicians and sales staff are available 8:30am - 5:00pm EST Mon. - Fri. to answer any questions concerning OAS products and dust collection. Call for duct-work design and ductwork quotes, including system pricing and shipping cost.

Read the entire Owner's Manual before installing or operating system!

Table of Contents

Proudly Made in the USA

Page

I.	System Start-Up Information	2
II.	System Specifications	3
III.	Dimensions	4
IV.	Parts List	5, 6
V.	System Assembly	7 - 11
VI.	Cleaning External Filter	12
VII.	Fan Motor Maintenance	13
VIII.	Troubleshooting	14
IX.	Fire Hazards - *Read Before Installing System*	15
X.	Terms and Conditions	16

I. System Start-Up Information

1. Read the installation and maintenance instructions as well as the recommended safety practices in this manual

Warning

Do not operate Fan / Blower unless Fan Housing is attached to Cyclone body and Dust Drum is in place. Dust Drum and Cyclone must be in place and sealed or motor will overheat!

Caution

The Direct Drive Fan / Blower makes the system top heavy! Use extreme care when setting the unit up! It is recommended that at least two people lift the system up.

Warning

Check amperage draw on motor with all gates open. Current draw should not exceed maximum motor amperage as stated on motor plate. (OAS is not responsible for damage to motors caused by improper installation, wiring or failure to follow these directions.)

2. Install ductwork completely before operating collector:
   A.) Seal ductwork with silicone sealant or duct tape.
   B.) Have dust bin in place and sealed.

The first portable dust collector that *automatically* changes its performance in real-time... constantly adapting to the demands you put on it.

New! Smart Dust Collector™

Designed to overcome the friction in Flex Hose! High suction for small diameter ports, similar to a shop vacuum!

Part #	Description
XXS030100	Smart Dust Collector - 3hp

System Performance
- Max. Static Pressure - 24". 2 to 3 times the suction of standard collectors.

Included
- New Patent Pending Flame Guard Arrestor
- Bin Level Indicator
- Remote Control
- Silencer
- Dust Bag Liner Hold-Down
- Filter Grounding Wire

Filter Media
- GE H12 certified HEPA Media.
- HEPA media - 99.97% @ 0.3 - 0.5 microns efficiency.

Dust Bin
- 35 Gallon Heavy Steel Drum with *casters*. Drops down for easy removal and dumps in seconds.

Motor
- 3hp Motor / 220V Power Supply
- Made in the USA

*Oneida reserves the right to change or modify specs and system appearance without notice. Actual system appearance may vary.

International Woodworking Fair

2010 CHALLENGERS AWARD FINALIST

The Challengers Distinguished Achievement Award® is internationally recognized as one of the industry's highest honors in recognizing advancements in technology, process or significant contributions to environmental improvement in the woodworking industry. It challenges IWF exhibiting companies to develop forward-thinking technology in machinery, materials, supplies, manufacturing techniques, services and safety. ***www.iwfatlanta.com***

For New Product Innovation

The Oneida Smart Dust Collector™ is a unique breakthrough in portable dust collection technology. The Smart System has an infinitely variable fan curve which means that it can automatically adjust and maximize air volume and suction to a wide range of tools, hose sizes, and even undersized suction ports.

For 4 - 6" dust ports, it provides much more air volume and pressure (up to 26" of H2O), 2 to 3 times that of a standard dust collector. For woodworking tools with 3" or smaller dust ports, you'll get high suction similar to a shop vacuum. The stunning result is a lot more air at the woodworking tool and much less fugitive dust escaping to the shop air. 99% of the waste is pre-separated with a high efficiency cyclone and clean air is returned to the shop through GE® H12 certified HEPA filter media.

The Smart Collector is equipped with patent pending Flame Guard arrestor for fire safety. It also features the patent pending Dust Sentry, a drum overfill sensor with a strobe light, so you know when it's time to empty the drum.

Actual System Performance w/ Flex Hose Connected

Hose Dia.	Length	Static Pressure (Suction) (In.-H_2O)	CFM
6"	10'	7.0	946
5"	10'	9.8	746
4"	10'	14.0	583
3"	10'	17.5	430
2.5"	10'	20.0	343

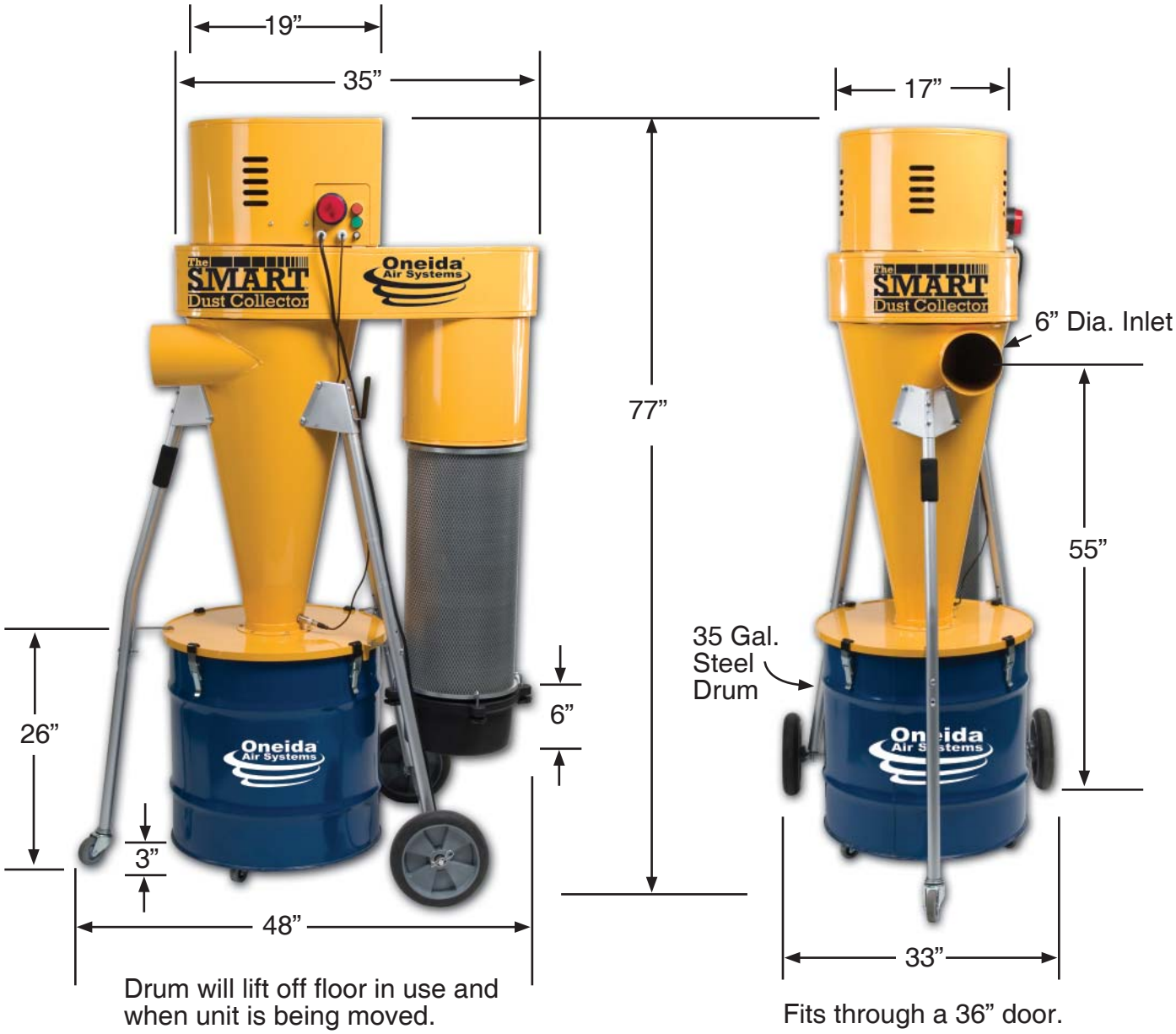
4 -6" Dia. Ports - High Air Volume

It Changes!

3" and Smaller Ports - High Suction - Up to 24" of H_2O. Similar to a Shop Vacuum.

2 to 3 Times Higher Suction Pressure than a Standard Dust Collector.

III. Dimensions



Systems Electrical Data

200 to 240 volt single phase 20 amps. A 30 amp circuit breaker is recommended.
(Similar to a clothes dryer.)

IV. Parts List

1. BHX001802 - Motor Cowling (1)
2. RMF000060 - Foam Filter Block (1)
3. BXI030118 - 3hp Motor Assembly (1)
4. BHX001801 - Fan Housing (1)
5. SXV001801 - V Tube (1)
6. SCX001801 - Cyclone (1)
7. AXB999110 - Drum Level Indicator (1)
8. SEX350600 - Drum Lid (1)
9. ARS990001 - Lid Clamp guards (4)
10. SES350000 - 35 Gal. Steel Drum (1)
11. AFL990001 - Drum Latches (4)
12. RHC000000 - Drum Casters (3)
13. RFG020000 - Leg Gusset (3)
14. VRM990425 - Foam Leg Grip (1)
15. VRT010049 - Front Leg (1)
16. FXX001801 - Front Drum Lid Bracket (1)
17. RHC000005 - Front Leg Caster (1)
18. BSS131200 - Silencer (1)
19. BSC130000 Drop In Foam Filter Silencer (1)
20. FCS132663H - 13 x 26 HEPA Filter
21. AFJ051602 - J Hooks (4)
22. AFT000001 - Thumb Nuts (6)
23. FPZ000013 - 13" Plastic Dust Bin (1)
24. Plastic Axle Protector (1)
25. RSR330625 - Threaded Rear Axle (1)
26. YSS000200 - Threaded 20" Filter Rod (2)
27. VRH051618 - Filter Rod Coupler (1)
28. RBX000000 - Filter Bottom Bracket (1)
29. VRT010047 - Rear Leg (2)
30. STP000003 - Handle (1)

30A. VRM425075 - Flat Handle Grip (1)

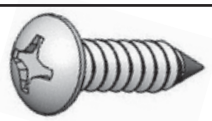
31. FXX001802 - Rear Drum Lid Bracket (2)
32. AFS125016 - Rear Leg Threaded Tube Connect (2)
33. AFB038001 - Eye Bolt (2)
34. VRW100200 - 10" Wheels (2)
35. Drum Liner Holder (1)
36. Filter Ground Wire (1)

Hardware List

A ASC000125 - Caulk Single (1)

B AFB025200 - Carriage Bolt 1/4"- 20 x 2" (10)

C AFB155190 - Bolt 5/16"- 18 x 1" H GR5 (15)



D AFS010075 - #10 Sheet Metal Screw 3/4" (4)

E AFS015920 - Bolt 1/4" - 20 x 3/4" Hex Head (11)

F AFS025020 - Screw 1/4" - 20 x 1/2" Philips Head (6)

G AFS103226 - Screw 10 - 32 x 1/4" Pan Head (8)

H AFS252002 - Pem Stud 1/4" - 20 x 3/4" (12)

I AFT000005 - Whiz Lock Nut 1/4" (39)

J AFT010916 - U Spring Nut #10 x 9/16" (4)

K AFT051618 - U Spring Nut 5/16" - 18 (15)

L AFT900058 - Nylock Nut 5/8 - 11 (2)

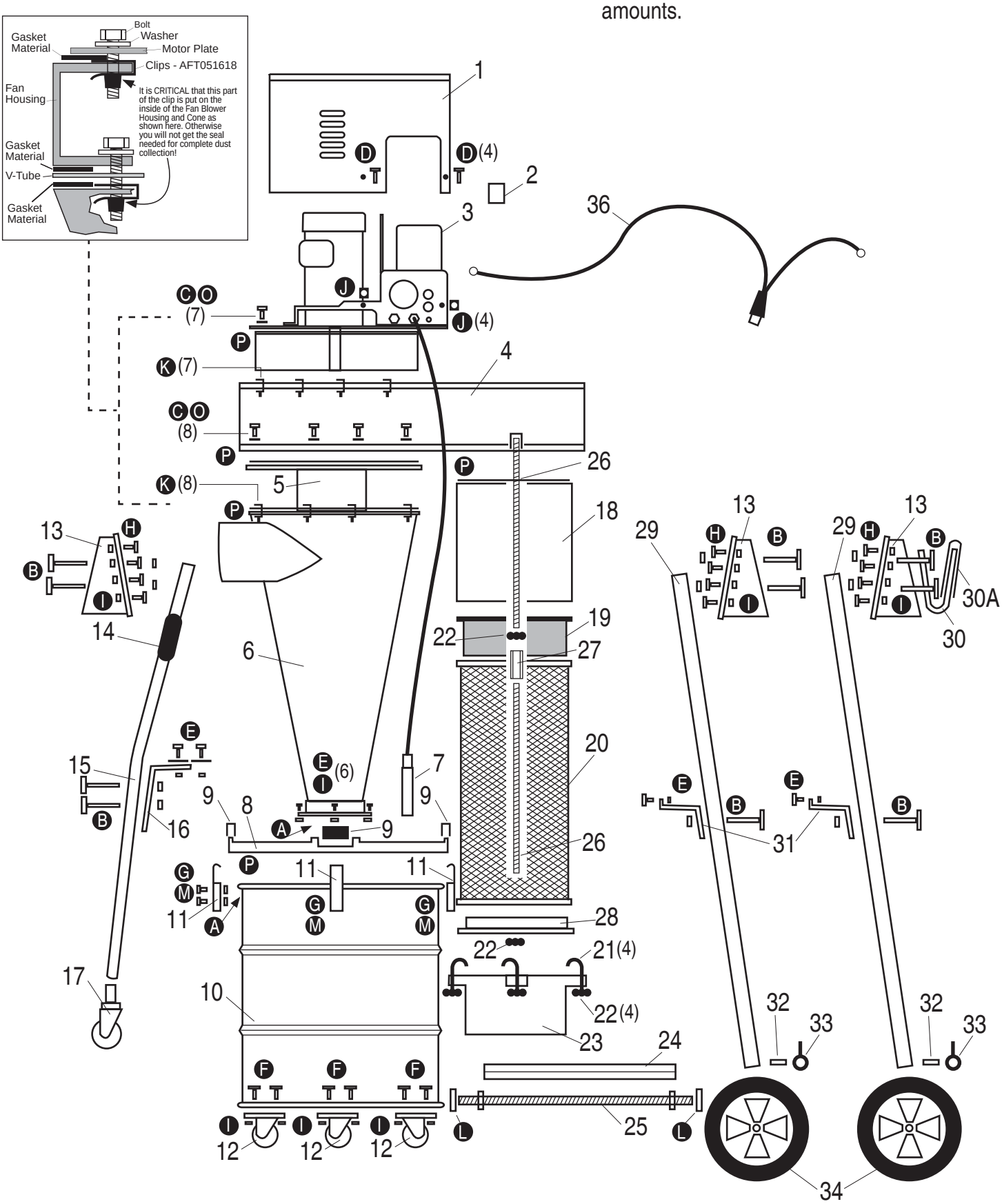
M AFT901032 - Nylock Nut 10 - 32 (8)

N AFW025000 - Flat Washer USS 1/4" (17)

O AFW180000 - Flat Washer USS 5/16" (15)

P RGZ025050 - Gasket (25 ft.)

Figure 1 All hardware may not be shown because of perspective. Check parts list for complete amounts.



* 35 - Drum Liner Hold Down (Not Shown)

V. System Assembly

It is always good to have a qualified helper there during assembly. Some parts are heavy and awkward to deal with.

Drum Assembly

1. Apply silicone sealant to each hole before attaching the casters to assure air tightness. This is very important when using a collection bag because even a tiny air leak will interfere with the bag working.

2. Attach the casters to the bottom of the drum with (2) included 1/4 - 20 philips head screws, (F)(I) making sure the screw heads are on the ***inside*** of the drum. **[Figure 1]**

Figure 1. Bottom of dust drum with caster wheels.

3. Attach the dust drum latches with the included 10 - 32 pan head screws with the screw head on the outside of the drum and the nyloc nuts (G)(M) on the inside of the dust drum. Apply silicone sealant to each hole here also to prevent air leaks. **[Figure 2]**

Figure 2. Dust drum latches and hardware.

Drum Lid Assembly

4. Apply silicone sealant **[Figure 4]** to the cone flange before bolting in place with (6) 1/4-20 x 3/4" bolts.(E)(I)**[Figure 5]** Make sure the 2 holes for the front leg brace are lined up with the cone inlet and tabs for the back leg braces will be pointed down when cone is right-side up. **[Figure 6]**. Then apply the provided 1/2" wide PSA foam rubber seal around the bottom perimeter. Carefully align and cut the end so there is no gap between them and it makes a tight seal against itself.

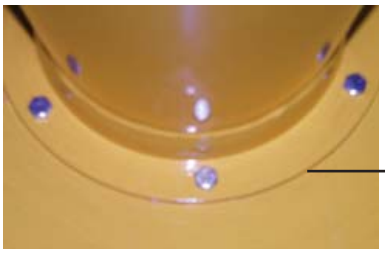


Figure 4. Apply silicone to bottom of flange.

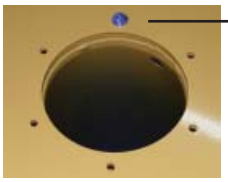


Figure 5. Check lid alignment (see Figure 7) Bolt dust drum lid to cyclone cone.

Figure 6. Position drum lid so the two holes that attach to front leg brace are below the cyclone inlet.

Figure 6. Tabs for the back leg braces will be pointed down.

Figure 7A

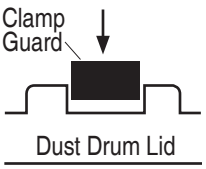


Figure 7. Apply gasket to bottom of drum lid.

5. Set Cone and lid on top of drum on a smooth, level floor, apply (4) plastic lid clamp guards and fasten latches. **[Figure 7A]**

Leg Assembly

6. Slide foam hand grip onto top of bent front leg. You may need some lubricant such as a little soapy water to help. **[Figure 6]**

Figure 6 -
Foam hand grip

7. Assemble gussets to tops of front and back legs using 1/4" - 20 x 2" carriage bolts.Ⓑ **[Figure 7]** Attach electrical cord holder on back leg on On/Off side of collector using the same carriage bolts for the gusset. **[Figure 8]**

Figure 7- Gusset

Figure 8 -
Cord holder

8. On the two straight, back legs, gently insert the threaded inserts with a hammer in bottom of leg, then screw in the two eyebolts all the way in.
[Figure 9] Do not put casters or wheels on yet.

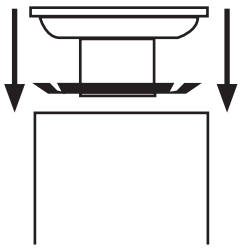


Figure 9 - Screw eyebolts into threaded inserts.

8. Insert first (3) 1/4" - 20 x 3/4" PEM studs Ⓗ into cone and first leg gusset, heads inside the cone and hand tighten nuts on studs. Ⓘ Use the leg as leverage to gently align hole. Insert fourth stud and start nut. Leave nuts loose for now. Repeat on all legs.

PEM Stud

9. Attach two hole lid holder to inside of front leg and attach single hole lid holder to inside of each back leg using 1/4" - 20 x 2" carriage bolts and nuts.. **[Figures 10, 11]** ⒷⒾ

Figure 10 -
Front holder

Figure 11 -
Rear holders

10. Insert threaded axle through eye loops so that the fixed nuts are inside of the eyebolts on the bottom of the legs. **[Figure 12]** Check overall alignment so far and then securely tighten all of the nuts on the leg gussets.

Figure 12 - Rear axle

11. Put wheels on axle. Use two 15/16 wrenches and screw on wheel nuts (5/8" - 11 nylock nut)Ⓛ so that they are completely on the end of the axle but not so far so that it rubs against the wheels hubs. **[Figure 13]**

Figure 13 - Tighten wheel nuts

12. Attach drum lid to the front and rear leg bracket lid holders using 1/4” - 20 x 3/4” Hex head bolts and nuts. Ⓔ Ⓘ **[Figures 14, 15]**

Figure 14 - Front

Figure 15 - Rear

13. Attach front wheel and tighten nut on caster assembly to secure. **[Figures 16, 17]**

Figure 16 - Attach wheel

Figure 17 - Tighten Nut on caster.

Cone Assembly

14. Clip on 8 large, black U-spring nuts so that the holes are aligned. Ⓚ **[Figure 18]**

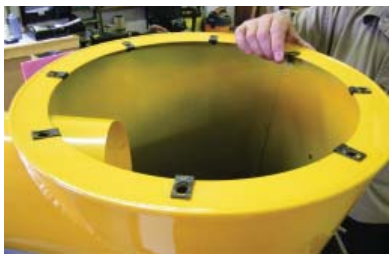


Figure 18 - U-spring nut

15. Apply 1/2” PSA foam rubber sealing strip around top edge of cone, outside of U-Spring nuts. **[Figure 19]**

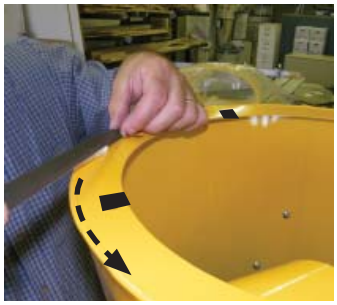


Figure 19 - Apply Gasket

16. Place V-Tube into position in cone as shown. Apply another strip of 1/2” PSA foam rubber gasket around its perimeter. **[Figures 20, 21]**

Figure 20 - Apply gasket

Figure 21- Insert V-tube

17. Place Blower housing in position so that the filter outlet is pointed down, opposite the inlet. Hand start eight 5/16” x 1” hex head screws Ⓒ with washers, Ⓞ then tighten securely. **[Figure 22]**

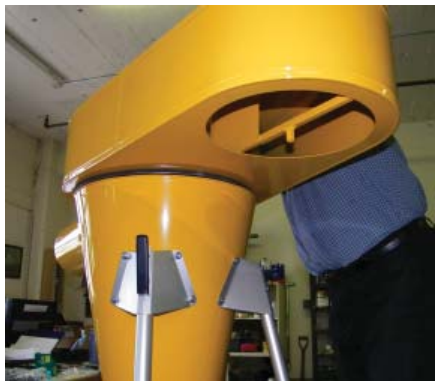


Figure 22 - Attach Blower housing

18. Attach seven large U - spring nuts Ⓚ around top opening of Blower housing, then apply 1/2” wide PSA foam rubber strip around the underside of motor plate. **[Figures 23, 24]**

Figure 23 - Attach U - spring nut

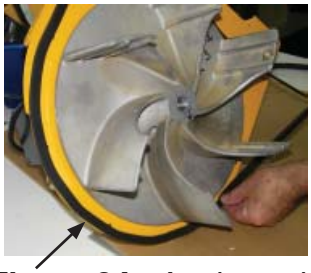


Figure 24 - Apply gasket

19. With a helper and step stools, lift the motor assembly up with motor in front and carefully lower into hole making sure you have proper bolt hole alignment. **Caution! The motor assembly is heavy!** Hand start seven 5/16 x 1" bolts Ⓒ with washers, Ⓞ then tighten securely while being careful to avoid electronics. **[Figure 25]**

Figure 25

20. Install four smaller black U Spring (2 on each side of motor) nuts Ⓙ on holes shown then install cowling, being careful not to pinch any wiring by making sure wiring is in notch in plate behind motor. Use (4) #10 x 3/4" sheet metal screws Ⓓ to secure cowling. Two on each side.**[Figures 26, 27, 28]**

Figure 26 -
Install smaller U - spring nuts

Figure 27 -
Wiring in notch

Figure 28 -
Fasten cowling

21. Take the provided plastic foam filter and tuck it into the back of the motor cowling. **[Figure 29]**

Figure 29 -
Position foam filter

22. Install sensor into drum lid in pre-cut hole. Make sure the "O" ring is used on top side of the lid. Tighten by gently wrenching the nut on the underside of the lid so as not to distort the "O" ring. **[Figure 30]**

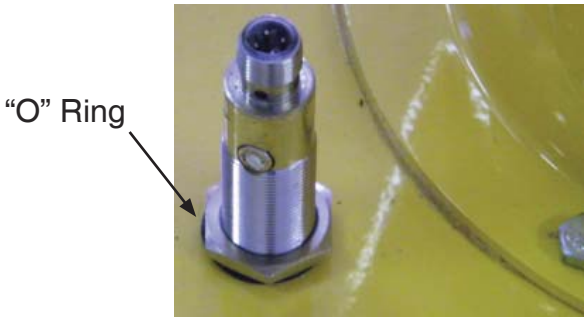


Figure 30 - Install sensor

After you put the Sensor into the lid, you will need to set the detection level. To do this, first screw the Strobe connector into the Sensor. Using a small screwdriver, turn the small set screw on the upper body of the Sensor clockwise to adjust the distance of detection. The Smart Collector should be plugged in but NOT turned on. The row of small red lights will go on along with the Strobe when the level of detection is reached by using your hand as a target. Initially you will probably want a distance of at least four inches for tripping the Strobe.

23. Apply 1/2" wide PSA foam rubber strip around top edge of silencer opening. **[Figure 31]**

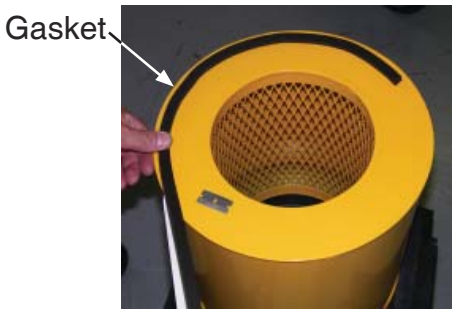


Figure 31 - Apply gasket

24. Screw 20” rod into the threaded fixture at the bottom of the fan housing. Hold silencer securely against the fan housing putting rod through the hole in the angle iron brace at the bottom. Then thread the provided thumb nut up against the brace to hold the silencer in place. This is easier to accomplish with two people. **[Figure 32]**

Figure 32 - Attach rod & silencer w/ thumb nut.

25. Attach the other 20” threaded rod to the installed rod by using the provided connector. Put rod into filter before connecting rods together. **[Figure 33]**

Figure 33 - Connector

26. Hold filter against Silencer so it is even all around and gasket is secure against Silencer. Put the angle iron filter holder through the filter rod and tighten with the thumb nut making sure the edges of the angle iron holder do not crush the filter gasket. **[Figure 34]**

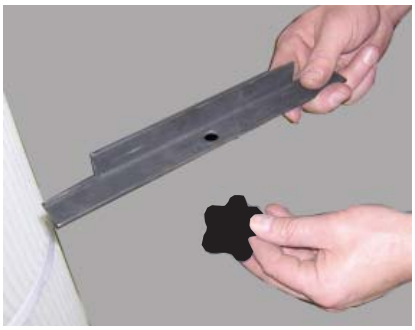


Figure 34 - Attach filter w/ holder

27. Attach the plastic dust pan using the provided J hooks and thumb nuts. **[Figure 35]**

Attach the alligator clip on the green ground wire from the motor to the filter cage as shown. Tape the loose ring terminal end to the wire.

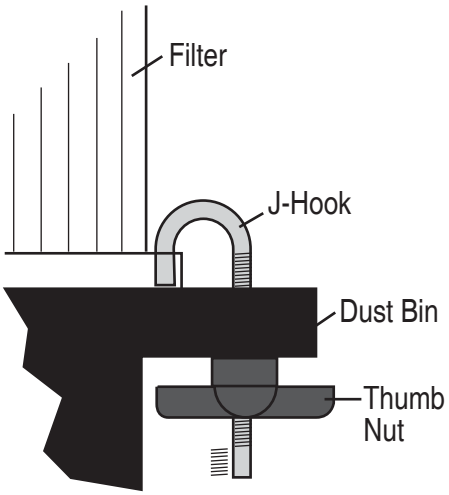


Figure 35 - Attach dust bin with J-hooks

28. Drum liner hold-down. **[Figure 36]** (Retainer will come flat.) To assemble Retainer use (3) 10-32 pan head screws Ⓖ and nyloc nuts. Ⓛ Use the outermost holes in the sheet. Insert screws and tighten. Put bag into drum and fold edge of bag over rim of drum. Put Retainer into drum being careful not to rip or puncture plastic bag. When bag is full, carefully remove retainer, seal bag carefully, then pull bag out of drum and dispose of properly.

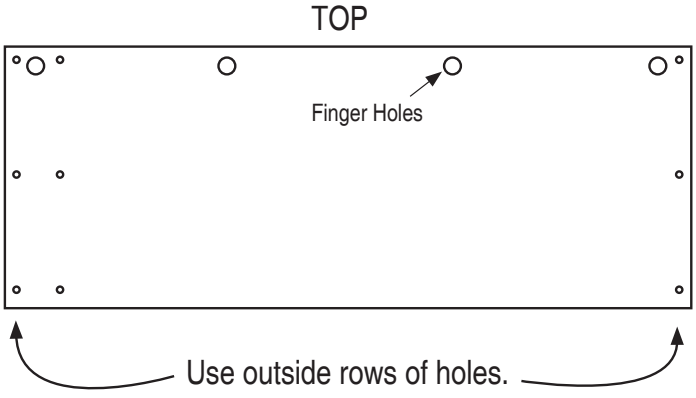


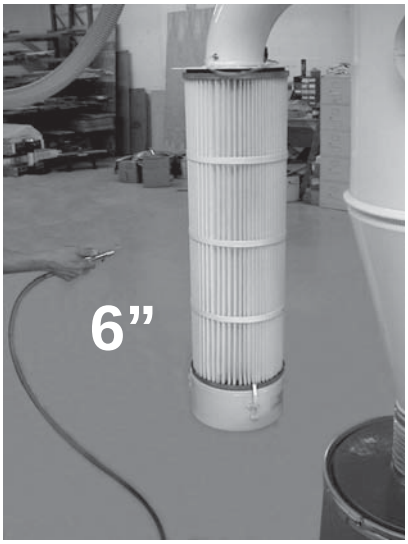
Figure 36 - Place holder inside bag and drum

VI. Directions for Cleaning External Filter

All steps should be done with a dust mask and eye protection. Proper filter cleaning should not be neglected. A dirty filter can affect dust collector operation and filter life.

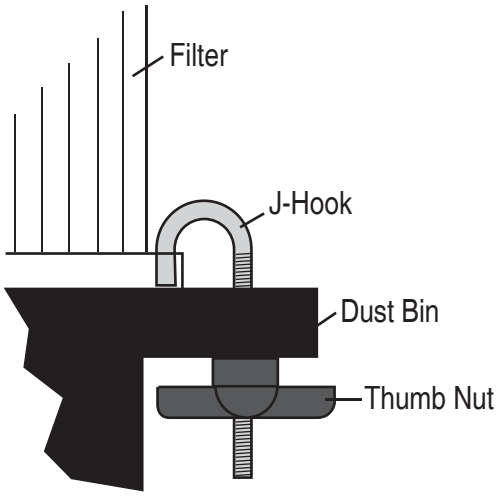
1. Compressed air from outside.

Blast air along pleats of the filter at about a 20 degree angle. Blast air out and away from you or anyone in the general area.
Keep air nozzle at least 6” from filter. Closer blasts may damage material. This operation should be done with filter on the unit. Dust is trapped inside filter so it will not make a mess.



2. Empty Dust Bin.

Wait a few minutes for internal dust to settle then unscrew thumb nuts from J-Hooks and remove dust bin. Empty dust carefully. Replace dust bin. Do not over tighten thumb nuts.



Dust drums can be lined with plastic bags as long as included Drum Liner Holder is used..

VII. Fan Motor Maintenance

Per Baldor specifications, their 2 pole motors (3600 RPM) motors are to be relubricated *every 5500 hours.*

Table 1 - Service Conditions

Severity of Service	Ambient Temperature Maximum	Atmospheric Contamination	Type of Bearing
Standard	40° C	Clean, Little Corrosion	Deep Groove Ball Bearing
Severe	50° C	Moderate dirt, Corrosion	Ball Thrust, Roller
Extreme	>50° C* or Class H Insulation	Severe dirt, Abrasive dust, Corrosion	All Bearings
Low Temperature	<-30° C**		

* Special high temperature grease is recommended.
** Special low temperature grease is recommended.

Table 2 - Lubrication Interval Multiplier

Severity of Service	Multiplier
Standard	1.0
Severe	0.5
Extreme	0.1
Low Temperature	1.0

Per Baldor specifications, add .30 ounces (8.4 grams) of Mobil Polyrex grease by weight or .6 cubic inches (2 teaspoons) of Mobil Polyrex grease by volume.

Procedure

Clean the grease fitting (or area around grease hole, if equipped with slotted grease screws). If motor has a purge plug, remove it. Motors can be regreased while stopped (at less than 80 C) or running.
Apply grease gun to fitting (or grease hole). Too much grease or injecting grease too quickly can cause premature bearing failure. Slowly apply the recommended amount of grease, taking 1 minute or so to apply. Operate motor for 20 minutes, reinstall purge plug if previously removed. Caution: Keep grease clean. Mixing dissimilar grease is not recommended.

VIII. Troubleshooting

Unplug unit before servicing or cleaning.

Motor Overheating

The motor's internal circuit breaker will trip if the motor is overheating.

Caused By:

Air leaks between the collector and dust bin
- The lid of the dust bin must be in place and sealed when operating the dust collector.
- Make sure flex hose is not torn and the hose clamps are tight.
- Check drum lid; cover should have a foam seal and be well seated.
- Check for holes or leaks in the dust bin barrel.

Motor not properly wired. Check wire connections. (See wire diagram)
- Check motor rotation - See wire diagram

Check breaker box. Make sure power supply is correct for motor.

Poor Dust Pick-Up at Woodworking Machines

Caused By:

Improper motor rotation - Running backwards will reduce suction by 30%.

Check length of duct runs and duct diameters compared to ductwork design guideline.

Make sure all ductwork is sealed. Large air losses will occur even through small cracks in the ductwork. Use silicone, duct tape or duct mastic compound as a sealant.

Check for air leaks between collector and dust bin.

Close all unused blast gates at your woodworking machines.

Examine hood design for weaknesses according to the ductwork guide.

Check for a restricted pipe, too small a hood port or too small a branch line. See branch line diameter chart in ductwork guide.

Be sure that your filter is clean. See filter cleaning directions.

Filter Clogging

Caused By:

Large chips clogging the filter
- Check for a leak in the dust bin, flex coupling or lid. Check for split or torn flex coupling. (See also: Motor Overheating Section above)
- Make sure dust bin has not over filled. Dust bin should be emptied before the dust reaches top of the container.
- Interruption of air flow, such as vacuuming chips with a flex hose connection, will increase filter maintenance.

Fine dust clogging the filter
- Air flow to the collector may be restricted. The collector needs the equivalent of at least a 4" diameter cross-section open to allow adequate air volume and speed for pre-separation in the cyclone stage of the collector. If you are using a woodworking machine with only one 2" diameter dust port, partially open another blast gate to compensate.
- Check for excessive elbows at cyclone inlet as explained in the mounting collector section.
- Heavy sanding with a drum sander or fine grit paper will cause the pleated filter media to blind sooner than with larger size dust. Clean filter more often with compressed air.

***Note:* If you continue to experience difficulty with your collector call Oneida Air Systems at 1-800-732-4065 for assistance.**

IX. Fire Hazards - *Read Before Installing and Operating*

Oneida Collectors are designed for WOOD DUST only!!

Wood shaping and cutting processes generate wood chips, shavings, and dust. These materials are considered combustible. Air borne wood dust below 420 microns in size (.017 of an inch) in certain concentration ranges when ignited can deflagrate (burn quickly).

An ignition source such as a spark, or ember, can ignite a dust mixture resulting in an expanding flame front, which can cause an explosion if tightly contained. A disturbance that raises a cloud of accumulated fine dust can raise additional dust clouds, which can cause a series of explosions that can level an entire building. *Until this type of fire has been witnessed, it is difficult to believe the devastation. This type of fire is rare but worth safeguarding against.*

The best way to avoid a wood shop fire is to keep the shop clean. A shop ankle deep in dust with layers of fine dust everywhere is an accident waiting to happen. A good dust collection system reduces overall fire hazards but also adds new concerns. A fire hazard is still present. Combustible material is now in the dust collector and storage container.

The following points are worth heeding:

- It is the buyer's responsibility to follow all applicable federal, state, local, OSHA, NFPA, or authorities having jurisdiction codes and regulations when installing and operating this dust collector.

- Fire Marshalls may want the unit located outside of the building. If the collector is located inside the facility, controls such as spark detection, suppression, or explosion venting may be required.

- Most local jurisdictions consult or adopt NFPA (National Fire Protection Agency) codes. However, other codes may apply. Local codes may vary from jurisdiction to jurisdiction.

- NFPA 664 Code book, "Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities", applies to woodworking operations that occupy areas of more than 5,000 sq. ft. or to areas where dust producing equipment requires an aggregate dust collection flow rate of more than 1500 cfm (Cubic Feet per Minute). This exempts some small operators from the NFPA code 664, but other codes may apply in your jurisdiction. Consult your local Fire Marshall for help. Additional information can be found in NFPA Code Book 664.

  The customer assumes the responsibility for contacting their insurance underwriter with regard to specific application requirements of explosion venting or if additional fire protection and safety equipment may be required.

- **Do not use this product to collect other types of dust or flammable vapors.**
- **Fire or explosion may occur!**
  Never collect sparks from a bench grinder into a wood dust collector.
  Never introduce sparks or sources of ignition into the dust collector.
  Personnel should keep at least 20 feet away from unit.
  Check dust bin frequently and before leaving the shop for smoldering material.
- Keep portable Fire Extinguishers handy.
  The ABC type (dry chemical) is generally a good choice for small wood shops.
  Additional information on portable extinguishers can be found in NFPA 10 (Standard for Portable Fire Extinguishers).
- Be especially careful with sanding units. They can produce concentrations of dust in the combustible range. Make certain enough air volume is at the suction point to capture all the particulate generated.
  This high air volume will dilute the mixture below the lower limit of flammability. Be careful not to generate sparks into the sanding dust.
  Empty dust bin and clean filter often, especially when sanding.
  Don't overload woodworking equipment, especially sanders. Excessive frictional heat can spontaneously ignite dust.
- Sparks can be generated in several ways:
  High-speed sanders and abrasive planers may strike foreign material
  Saws and edgers may strike foreign material and create a red hot metal fragment.
  Knots in hardwood can create frictional sparks.
  Tramp metal when drawn into the collector can spark against ductwork.
  Check wood stock for old nails and screws which can create red hot metal fragments.
- Avoid using excessively large wood waste storage bins.
- Always check storage bins for smoldering material before leaving for the day.
- Electrically ground all equipment and ducting. Static sparks can ignite wood dust. (Avoid using PVC drainpipe)
- Don't allow accumulation of layers of fine dust on horizontal surfaces. (Especially overhead lights, electrical boxes, and fuse panels which can ignite dust)

Unplug unit before servicing or cleaning.

X. Terms and Conditions

Checking in Order

We realize that shipping damage can occur sometimes. *It is crucial that you look over the shipment very carefully in the presence of the delivery person for damage or incomplete shipment before signing the delivery receipt.* Please note any tears or irregularities in the shipping package, however slight, on the shipping delivery receipt. This could be an indication of extensive concealed damage. *If the product is received damaged and you sign for it free and clear, then you have no recourse with the freight company.* The shipping company will not take responsibility if the damage is not noted on the delivery receipt. In the event of shipping damage, call OAS Customer Service at 1.800.732.4065 so we can expidite replacements. Please check in all parts within 3 days from receiving order. Notify OAS immediately of any missing or incorrect parts. OAS does not accept any claims for damage or shortage after 3 days from date of delivery.

Limited Warranty

Oneida Air Systems warrants products it manufactures for a period of 2 years to the original purchaser from the date of purchase. Items not manufactured by O.A.S. are limited to their own manufacturer's warranties. All electrical items such as magnetic starters, remotes, sensors, pumps and sccessories are limited to 90 days. This warranty does not apply to defects directly or indirectly to misuse, negligence, accidents, abuse, repairs, or alterations or lack of maintenance. This is Oneida Air Systems sole written warranty and any 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. O.A.S. does not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall O.A.S.'s 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.
Oneida Air Systems shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our product.
Oneida Air Systems does not warrant or authorize use of wood dust collectors for other purposes. This includes wood products that are treated, coated, or otherwise altered from their natural state.

**Note: Motors should be protected from extreme weather to prolong motor life. Single phase motors should only be started and stopped up to 4 - 10 times per hour. Starting single phase motors more frequently can cause heat build up and can cause the motor overload to trip or cause motor damage. In general, motors should be started and stopped as little as possible for maximum lifespan and best economy (electrical use).*

Delivery Risk of Loss

Products will be shipped to Buyer's single dstination. Title and risk of loss shall pass to the Buyer upon delivery to such destination. Buyer pays transportation expenses. Dates of shipment are advisory only. OAS will make reasonable efforts to ship on or before the date stated for shipment, however, OAS shall not incur any liability for failure to ship on that date.

Returned Goods Policy

Buyer must inform O.A.S. of any shortage or damage, by so noting in writing, on the freight delivery bill prior to signing to indicate receipt of shipment. All claims, including claims covered under the limited warranty, are subject to inspection and investigation by O.A.S. O.A.S. reserves the right to inspect, investigate all returned products before Buyer's claim is settled. All products returned for a cash refund must be unused, resaleable and purchased within 30 days. There are no refunds on flex hose, custom made components or partial kit items. Kits must be returned in full (all components) for credit. *There will be a 25% restocking fee applied to any returned items. Buyer must call and get an RMA (Return Authorization Number). Merchandise must be shipped to us prepaid.*

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