Oneida Air Systems
V-SYSTEMS

8_10

Powerful ▪ Economical ▪ Made in the USA

Appearance may vary slightly.

V - 1500 1.5hp / V - 2000 2hp / V - 3000 3hp / V - 5000 5hp Dust Collector Owner's Manual

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 7:30am - 6:00pm EST Mon. - Thurs. and 7:30am - 5:00pm EST Fri. to answer any questions concerning OAS products and dust collection. Call for ductwork design and ductwork quotes, including system pricing and shipping cost.

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

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Proudly Made in the USA

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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. *Do NOT over tighten bolt on Fan / Blower to Cyclone body connection ring! Use a Nylock nut and regular hex nut. If bolt is over torqued it can break, causing Fan / Blower to disconnect.*

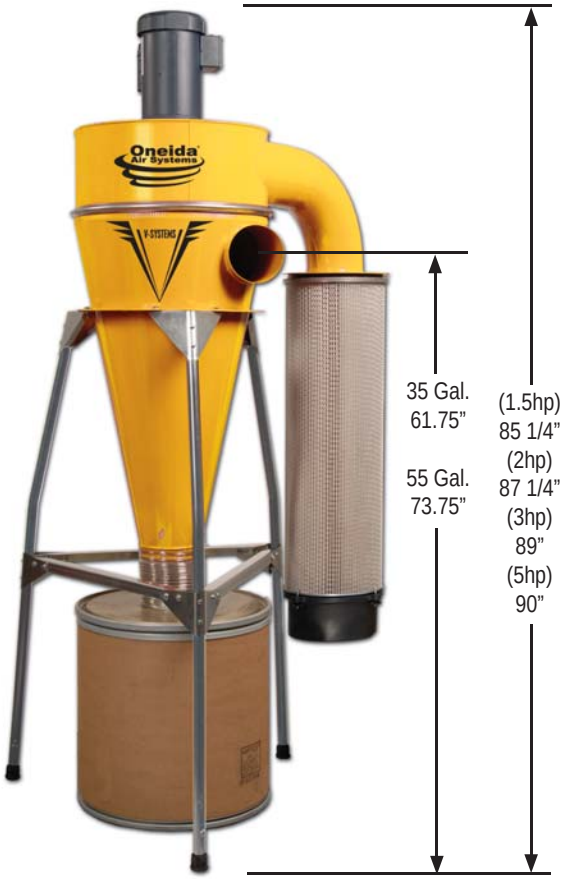
Warning

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.)

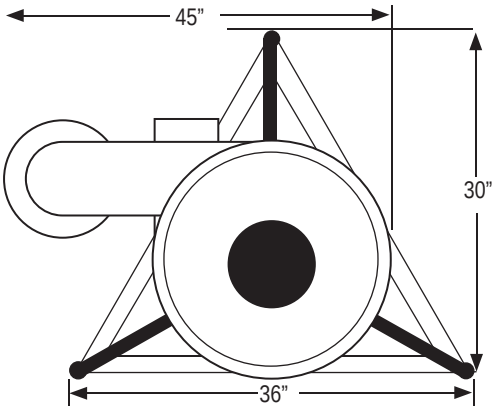
2. Install ductwork completely before operating collector:
   A.) Seal ductwork with silicone sealant or duct tape.
   B.) Have dust bin in place and sealed.

II. System Specifications

Allow 1 - 2" from ceiling for motor venting.



Dimensions shown w/ 2" flex hose between drum and cone collars.



System Performance
- Approx. 949 CFM @ 1.8" S.P. (1.5hp)
- Approx. 1140 CFM @ 2.5" S.P. (2hp)
- Approx. 1285 CFM @ 3" S.P. (3hp)
- Approx. 1498 CFM @ 1.65" S.P. (5hp)

See Specifications Below

System Dimensions
- Height w/ 35 Gallon Drum: 85 1/4" (1.5hp)87 1/4" (2hp) - 89" (3hp)
- Footprint w/ Ext. Cartridge: 48"x 48"x 48"
- Inlet Diameter: 6", 8" (5hp)
- Powder Coated Paint Finish Over Steel

Integral Fan Blower
Industrial Quality Motor
- U.S. Made Baldor or Leeson
- 1.5, 2, 3 or 5 Horsepower Single Phase
- TEFC Motor, (2hp) 1.15 SF (3 / 5hp) 1.0 SF / Insulation Class F for extra protection and motor life
- Voltage: (1.5 / 2hp) 115 - 230 / (3 & 5hp) 230
- Amperage: 16 / 8 (1.5) 23 / 11.5 (2hp) / 13 (3hp) / 19.5 (5hp)
- Fan Wheel - Backward Inclined / Non-Sparking, Non-Ferrous as Required by NFPA Fire Code / Dynamic, Two-Plane Balanced to ISO 6.3 Specifications. The Same as Aircraft Turbine Rotors.

Filter Media
- 13"x 39" 95 Sq. Ft. GE H12 Certified HEPA filter media
- HEPA filter media 99.97% from 0.3 - 0.5 microns efficiency.

Sound Level
- With Standard Silencer & Filter: 73 - 81 dBA @ 10'

Our Quietest System.

Dust Bin
- 35 Gallon Fiber Drum - ODK350701 Standard
- 55 Gallon Fiber Drum - ODK550701 - Additional Charge

Included
- (3) Tripod Aluminum Legs
- Filter w/ Internal Silencer
- FREE D.I.Y. Duct Design Guide
- Pat. Pend. Flame Guard Arrestor
- Pre-Wired Magnetic Starter - w/ On-Off Switch Preset for Add-On Remote with Amperage Overload Protector (1 Phase)
- Filter Grounding Wire

Options
See Accessories page for pricing.
- Remote Control - Radio Frequency Line of Sight Not Required.
- Bag Gripper
- Shop Plan Design Service
- Wall Mount

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

Oneida V- 1500 / V - 2000 2hp / V - 3000 3hp

Part #	Description
XXV010139H	V-1500 Collector
XXV020139H	V-2000 Collector
XXV030139H	V-3000 Collector
XXV050139H	V-5000 Collector

Performance: *V-1500*
6 inch pipe 949 CFM @ 1.8" W/C SP
5 inch pipe 739 CFM @ 3.5" W/C SP
4 inch pipe 572 CFM @ 5.3" W/C SP
3 inch pipe 467 CFM @ 6.1" W/C SP
0 CFM @ 7.9" W/C SP

Performance: *V-2000*
6 inch pipe 1140 CFM @ 2.5" W/C SP
5 inch pipe 913 CFM @ 4.5" W/C SP
4 inch pipe 760 CFM @ 6.3" W/C SP
3 inch pipe 620 CFM @ 8.1" W/C SP
0 CFM @ 10.5" W/C SP

Performance: *V-3000*
6 inch pipe 1285 CFM @ 3" W/C SP
5 inch pipe 1045 CFM @ 5.4" W/C SP
4 inch pipe 840 CFM @ 7.4" W/C SP
3 inch pipe 670 CFM @ 9.2" W/C SP
0 CFM @ 13.1" W/C SP

Performance: *V-5000*
8 inch pipe 1998 CFM @ 1.65" W/C SP
7 inch pipe 1326 CFM @ 2.95" W/C SP
6 inch pipe 1210 CFM @ 4.05" W/C SP
5 inch pipe 988 CFM @ 6.9" W/C SP
0 CFM @ 15" W/C SP

III. Stand Assembly

Stand Kit Contents

Hardware Kit (1) - AHX002107

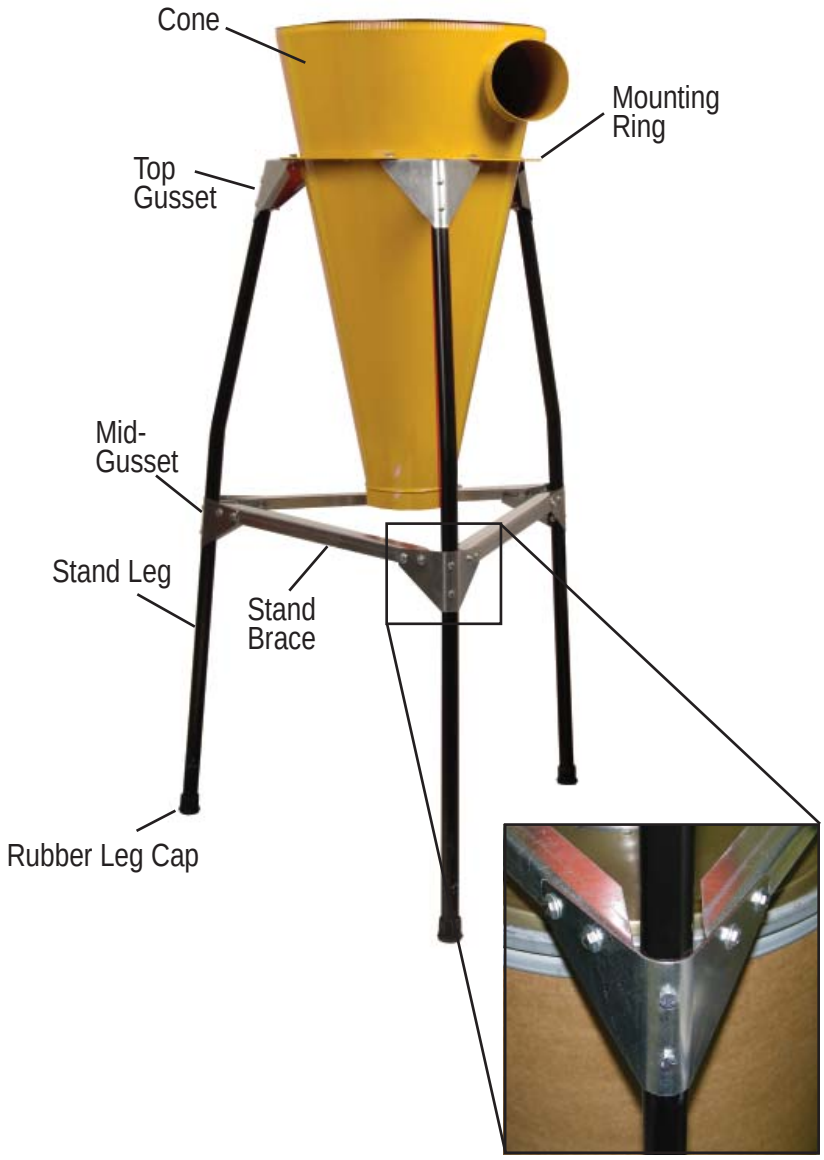
Rubber Leg Cap (3) - RCR012500

Top Gusset (3) - RFG010000

Mid-Gusset (3) - RFG010003

Stand Braces

Stand Leg Set 35 Gal. (3) - OSK354800
Stand Leg Set 55 Gal. (3) - OSK556200



1. Place rubber leg caps on long end of leg.
2. Attach top gusset and mid-gusset to legs using 2” carriage bolts then a washer and Nylock nut.
3. Attach the braces to the mid-gussets using the 3/4” carriage bolts and a washer and Nylock nut.
4. Attach cyclone cone to top gussets using the mounting ring by 5/16”x 1” bolts using the sequence of bolt, washer, cone/stand, washer, Nylock nut.

Note: Stand legs will angle slightly inward when connected to cyclone. This adds stability to the unit and makes a slightly larger footprint than if the legs were perfectly vertical.

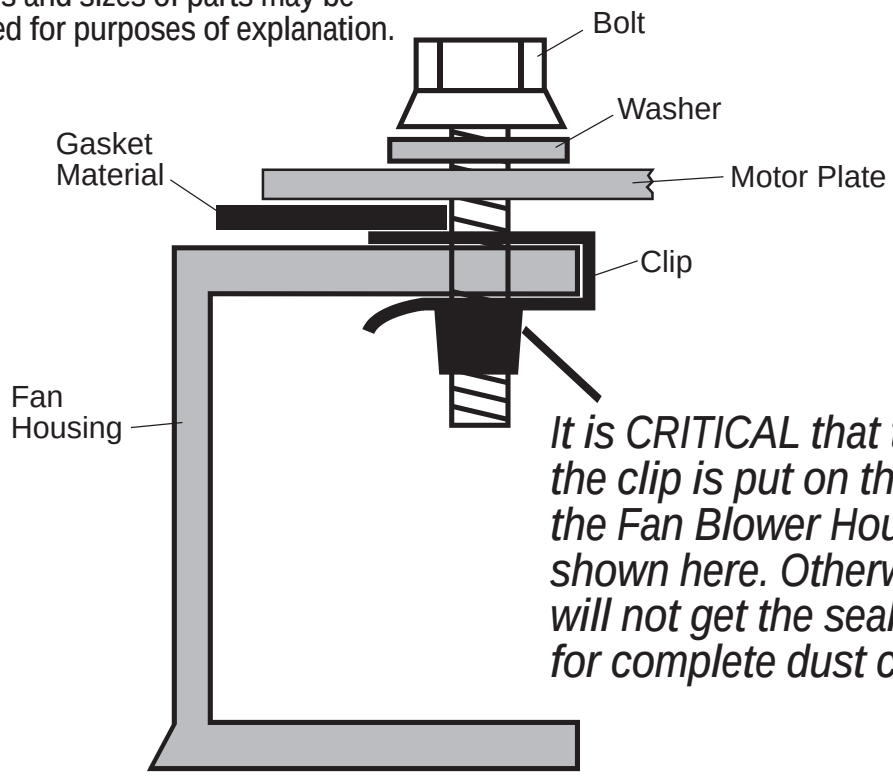
IV. Cyclone Assembly

Instructions for Attaching Motor Plate to Fan Housing.

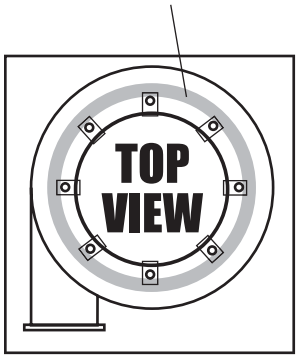
1. Push clips onto inside circle on Fan Housing, making sure clip is pushed all of the way on, that the bolt holes are in alignment with the clip holes and that the small barrel on the clip is on the INSIDE of the Fan Housing as shown in diagram.

2. Stick the gasket material around the Fan Housing as shown in the diagrams, outside of the bolt circle. Making sure of a complete seal. Dust collection systems cannot operate effectively without being tightly sealed with no air leaks.

Proportions and sizes of parts may be exaggerated for purposes of explanation.



Gasket material goes outside of clip holes on top of fan housing.



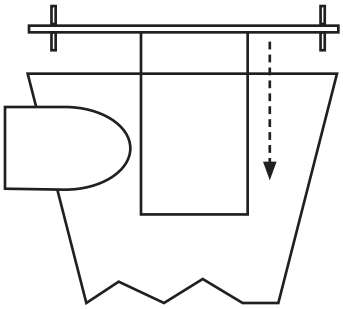
It is CRITICAL that this part of the clip is put on the inside of the Fan Blower Housing as shown here. Otherwise you will not get the seal needed for complete dust collection!

3. Attach Motor and Motor Plate to Fan Housing.

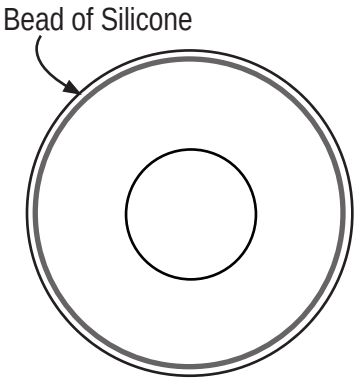
4. Put included self-sticking gasket on top rim of cone. *Make sure there is NO gap where both ends of gasket meet. This is VERY important for an air tight seal.*

5. Put cone on stand and attach with provided hardware as shown on page 4.

6. Put Clamp Ring over cone for later connection. Lower V-Tube into cone making sure pins are inside the cone.



Parts of this procedure require at least two people to complete. Use extreme caution and good sense when assembling this unit. Parts of it are very heavy.

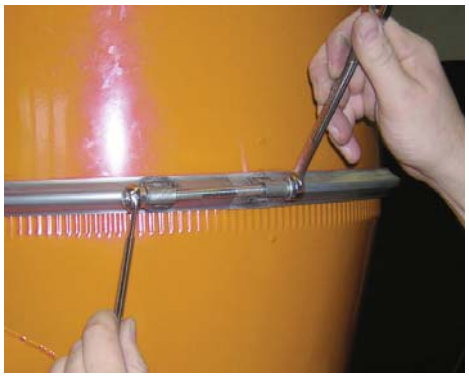


7. Put a bead of silicone on the top of the V-Tube sheet.
Note: This is very important to seal the Fan Housing to the Cyclone Cone to prevent dust blow out.

You may want to drill holes in the outlet for the sheet metal screws that attach the plenum before you clamp Housing to Cone. See Pg. 8

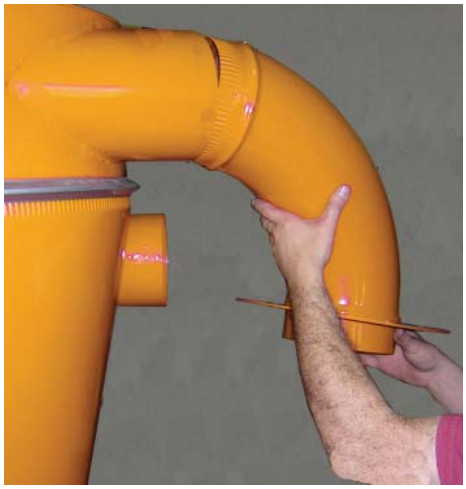
8. Determine where you want Fan Motor Outlet in relation to Cone Inlet, then lift Fan Motor Housing on top of cone, making sure the V-Tube guide pins are inside the housing. The Fan Motor Housing is extremely heavy. It is at least a two person job. *Do NOT attempt to do this yourself! It could be extremely dangerous!*

9. Make sure Clamp Ring is evenly over both the cone lip and housing lip. Put bolt through ring then put hex nut on first, then put on the Ny-Lock nut with nylon facing out and tighten.



Caution:
The Ny-Lock nut is required to prevent the bolt from vibrating off during operation. Don't over tighten nuts! Bolt could break!

V. V-Systems Plenum Elbow Assembly



10. Attach plenum with provided sheet metal screws and seal well with silicone to prevent dust blow out. This is accomplished easier with two people. Drill 4 to 6 holes in the plenum and outlet for the sheet metal screws while one person holds the plenum in position. Attach with screws then seal on the outside where the plenum meets the outlet with silicone.

VI. V-Systems Filter Assembly

Insert Silencer into Filter.

Plastic ring on Silencer must sit on the inside of the Filter gasket.

If you have the Spun-Bond Filter you will get two rods that you must attach with an included rod connector. The blended Filter with the metal cage only uses one rod.

11. Attach Filter Rod to Plenum. If you have the Spun-bond filter, you will need 2 rods attached with a connector as shown below. Before you connect the rod to the Plenum, you must position the filter underneath with the rod inside as shown above. Make sure the silencer is inserted in the filter as shown in inset before attaching the filter.

12. This is easiest with 2 people. Have one person hold the filter up against the Plenum plate while the second person holds the bracket as shown and puts it up on the filter rod, followed by the washer and then the Thumb Nut.

13. Position top of the J-hook over the filter rim as shown in the diagram on page 9. Making sure the pan is even with the filter bottom and tightly sealed as shown above.

Filter Grounding Wire

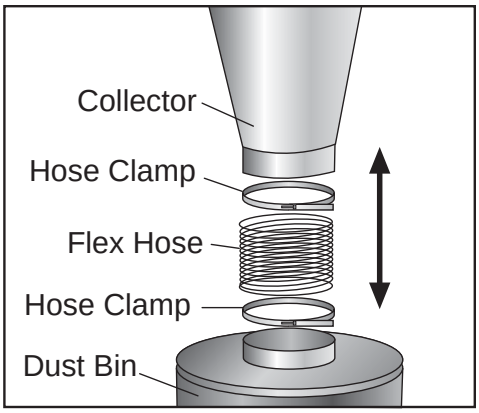
Take the alligator clip that is at the end of the green grounding wire attached to the motor and clip it to the filter mesh as shown below. Tape the ring terminal end to the wire.

VII. V-Systems Dust Drum Assembly

14. Distance between the drum lid and cone can vary. Some systems have little space there to minimize overall system height.
In some cases, the flexible hose will have to be cut down (especially with stands).
OAS ships 1' of hose as standard but this is not necessarily the needed length once the system is installed.

Tools Needed: Razor Knife / Diagonal Cutters

Measure length between drum lid and collar of cone.
Measure hose while it is extended (don't overly compress the hose). This allows the lid to move up when installed. Cut the hose with razor knife and then cut the wire with diagonal cutters. ***Don't cut too short! If in doubt, cut a little long.*** Trim if necessary.

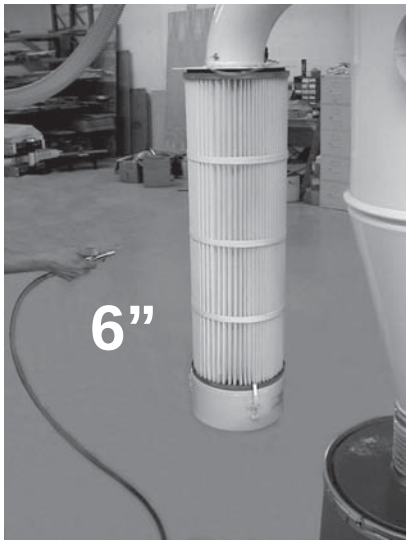


15. Plug in Magnetic Starter and you are ready to connect your collector to your ductwork and go!

VIII. 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.

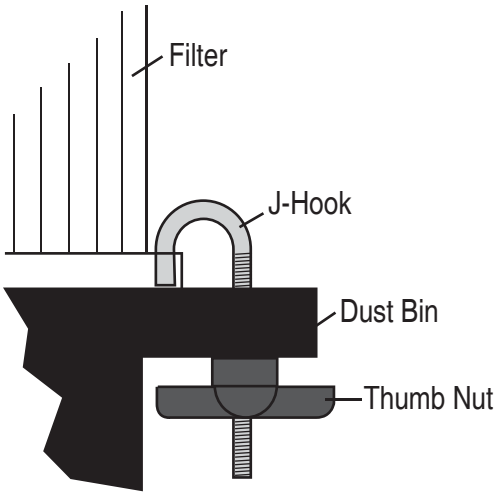
1. Compressed air from outside.



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.

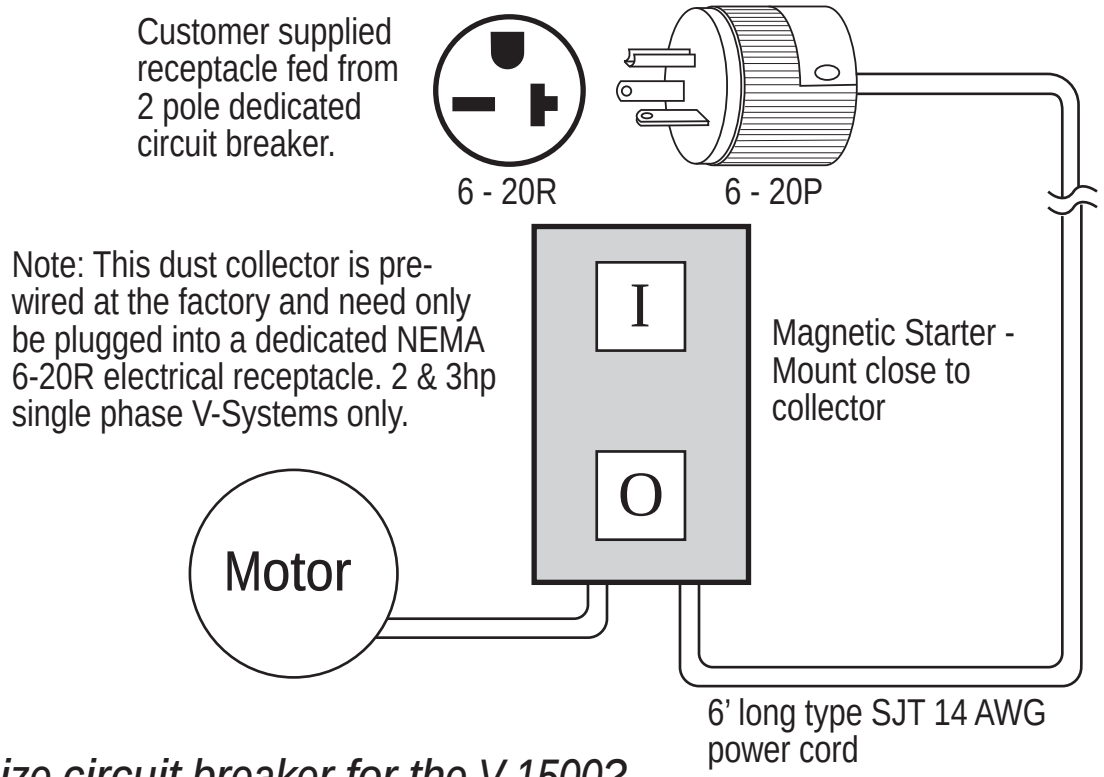


If you have the Filter Efficiency Gauge.

Filter must be cleaned regularly or filter damage may result. If gauge reaches 3, it is time to clean your filter. Never allow gauge to reach 5. You could destroy your filter.

IX. V - Systems Electrical Data

Always Use A Licensed, Professional Electrician.



What size circuit breaker for the V-1500?

The circuit breaker OAS recommends is a 1 pole 'HACR' style (or equivalent) 20 amp rated for 120 volts AC.

What size circuit breaker for the V-2000?

The circuit breaker OAS recommends is a 2 pole 'HACR' style (or equivalent) 15 amp rated for 250 volts AC.

What size circuit breaker for the V-3000?

The circuit breaker OAS recommends is a 2 pole 'HACR' style (or equivalent) 20 amp rated for 250 volts AC.

What size circuit breaker for the V-5000?

The circuit breaker OAS recommends is a 2 pole 'HACR' style (or equivalent) 20 - 30 amp rated for 250 volts AC.

"HACR' style breakers are required because they are designed to accommodate high amperage inrush (prevents nuisance tripping of the circuit breaker when the dust collector motor starts). Make sure that the conductor(s) used to 'feed' the NEMA 6-20R dedicated receptacle are sized per NEC (NEC = National Electircal Code) Article 310 entitled 'Conductors for General Wiring'. Always use a licensed professional electrician to install the electrical circuit between the circuit breaker panel, and the NEMA 6-20R dedicated receptacle that is used to power up the factory installed magnetic starter that comes on the V-2000 or the V-3000.

X. 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.**

XI. 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.

XII. 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 1 year 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.

XIII. 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

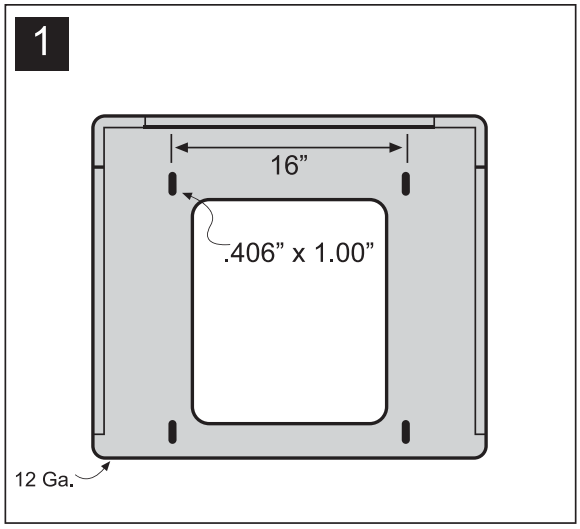
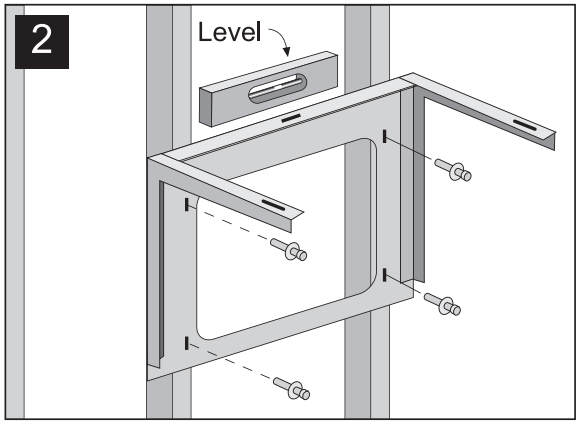
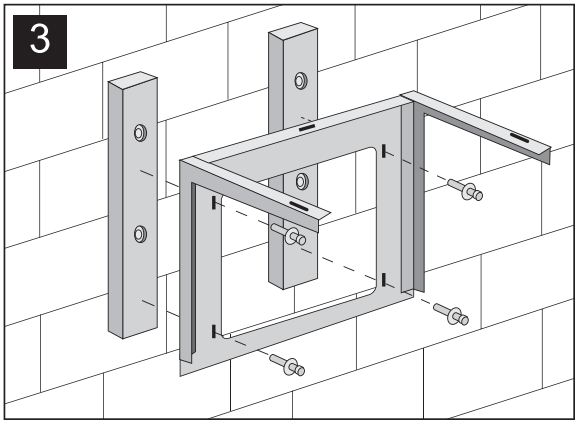
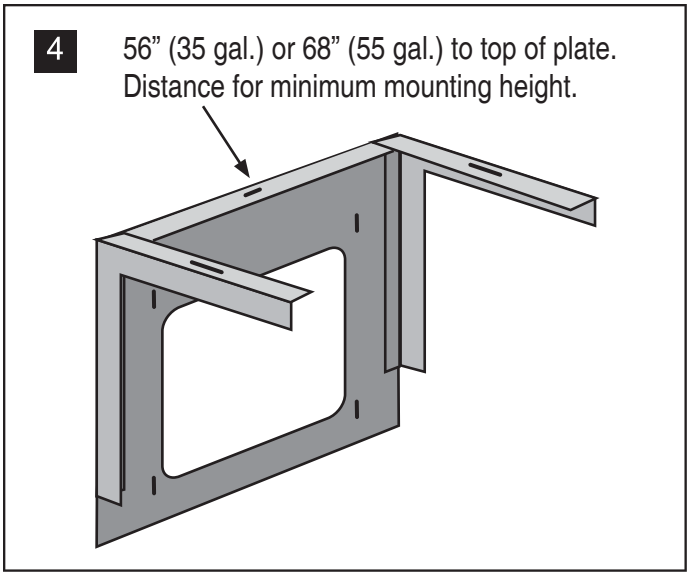
Clean the grease fitting (or area around grease hole, if equipped with slotted grease screws). If motor has a purge plug, remove it. Motors can be regreased while stopped (at less than 80 C) or running.
Apply grease gun to fitting (or grease hole). Too much grease or injecting grease too quickly can 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.

XIV. Wall Bracket Assembly

1. The collector will seem quieter if the outlet is aimed away from the area people tend to work. Slots in the brackets are .406" x 1.00". Note: Bolts included to mount bracket to collector. Hardware NOT included to mount to wall.

2. Hold bracket against wall with top of plate at 56" (35 gal.) or 68" (55 gal.) Mark where mounting holes fall. Mount wall bracket. For wall mounting, the bolt centers on the brackets are at 16" to accomodate most wall stud spacing. See Fig. 1 & 2. Use a level to ensure straightness.

3. Attach bracket to wall with lag screws, concrete anchors, or other suitable hardware. See Fig. 2 & 3. Note: When installing the brackets on a concrete wall, mount 2 x 4's between wall and brackets to stabilize and dampen vibration.

4. Position Angle Ring around top of cone over bracket. Line up slots in angle ring on cone with slots in wall bracket with one in back and one on each side.

5. Attach tightly with bolts.