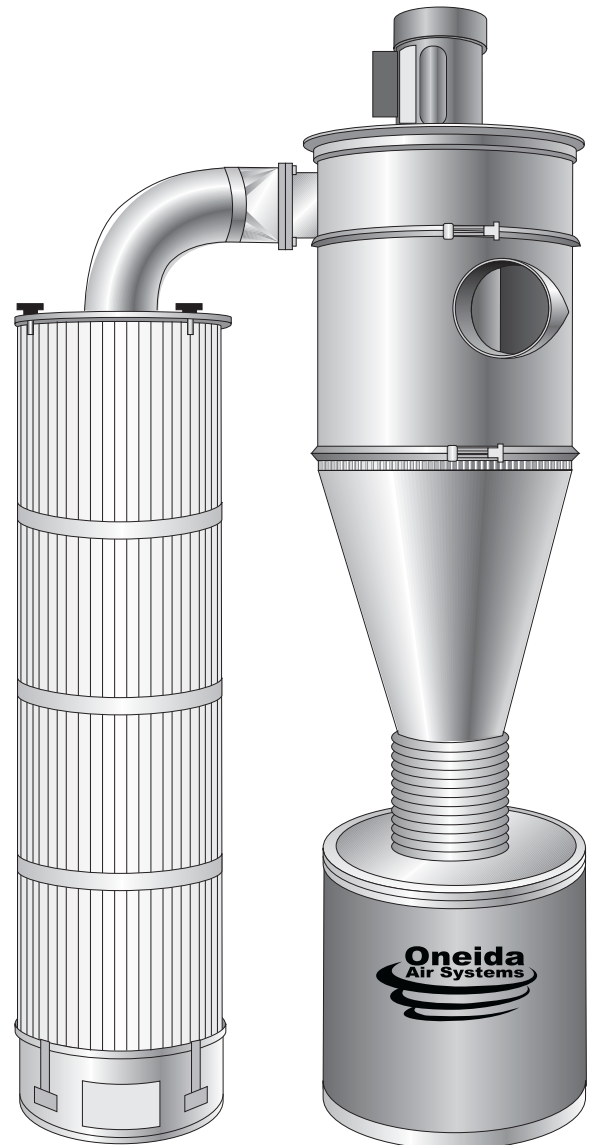


# 2 HP Commercial Cyclonic Dust Collector



## ***Owner's Manual*** Leeson



Oneida Air Systems, Inc. 1001 West Fayette St., Syracuse, N.Y. 13204  
Phone 1-800-732-4065 315-476-5151 Fax 315-476-5044 [www.oneida-air.com](http://www.oneida-air.com)

# ***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. - Thur. 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 U.S.A.*



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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.
2. Install Ductwork completely before operating collector:
  - A.) Seal ductwork with silicone sealant or duct tape.
  - B.) Have Dust Bin in place and sealed.
3. Have licensed electrician wire Fan / Blower according to wire diagram on pg. 13 in this owner's manual.
4. Have licensed electrician check current draw on motor with all gates open. Current draw should not exceed maximum motor amperage. (OAS is not responsible for damage to motors caused by improper installation, wiring or failure to follow these directions.)

## Caution

*The Direct Drive Fan / Blower makes the system top heavy!  
Use extreme care when setting the unit up!*

## Warning

*Do not operate Fan / Blower unless Cyclone and Dust Bin  
are in place. Motor will over heat!*

## Warning

*Check amperage draw during operation with all blast gates  
open. Make certain amperage is not outside operating limit  
indicated on motor plate!*

## Warning

*If amperage is too high - shut down immediately!  
(See troubleshooting section.)*

## II. 2hp Commercial Configurations

### 1. No Filter - Vent Outside -

#### **Caution:**

If exhaust air is vented outside you must provide make up / return air.  
Flue gases (carbon monoxide) can be drawn into the shop from furnaces, water heaters or other appliances.

### 2. External Cartridge Filter - Silencer Included with Filter

#### Cartridge Filter Media

- 1 Pleated Cartridge Filter 39" 80 Sq. Ft. or 62" 130 Sq. Ft.  
Spun bonded Polyester BIA ZHI / 487 Test - Rated C  
Captures 99.9% of Test Material between 0.2 - 2.0 microns  
@ 11 FPM Face Velocity

*Do NOT remove fabric straps from filter.*

### 3. External Tube Filters -

#### Tube Filter Media

12 oz. Needle Felted Polyester Tube Filters, singed on the inside.  
10 to 1 air to cloth ratio is recommended.

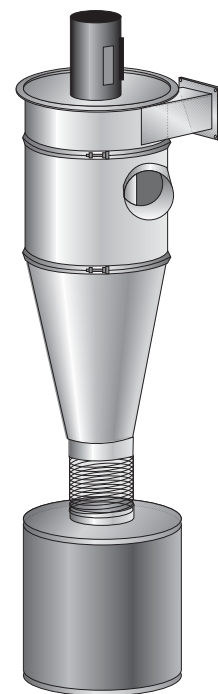
- FT-19 Tube Filters / 18.8 ft<sup>2</sup> of filter area / 12" dia. x 6' long /  
7.5 - 8' ceiling height
- FT-25 Tube Filters / 25 ft<sup>2</sup> of filter area / 12" dia. x 8' long /  
9 - 10' ceiling height
- FT-31 Tube Filters / 30 ft<sup>2</sup> of filter area / 12" dia. x 10' long /  
12' ceiling height

BIA ZHI / 487 Test - Rated C

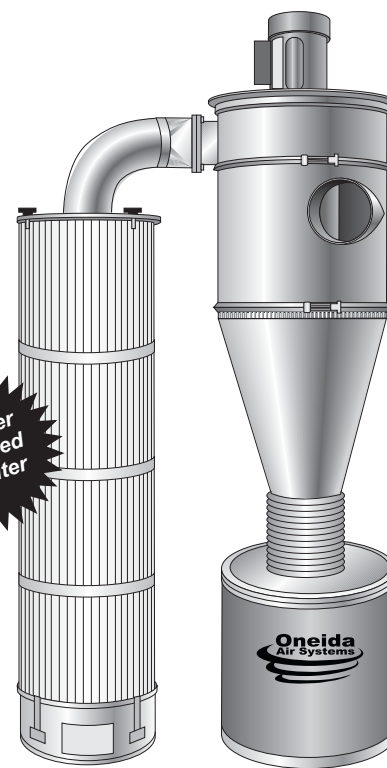
Captures 99.5% of test material between 0.2 - 2.0 microns @ 11  
FPM face velocity.



**3. External  
Tube  
Filter**



**1. No Filter**



**2. External  
Cartridge  
Filter**

# III. General Specifications & Fan Performance Curves

	Height without Dust Bin	Cyclone Diameter	Inlet Diameter	Weight without Dust Bin	TEFC Leeson Motors
<b>2.0 hp</b>	64.25"	21"	7"	Approx. Wt. 122 lbs. w/o drum or filter	SF 1.15 / F4 Class 115v / 20 amps 208 - 230v / 11.4 - 10 amps Thermal Overload Protection

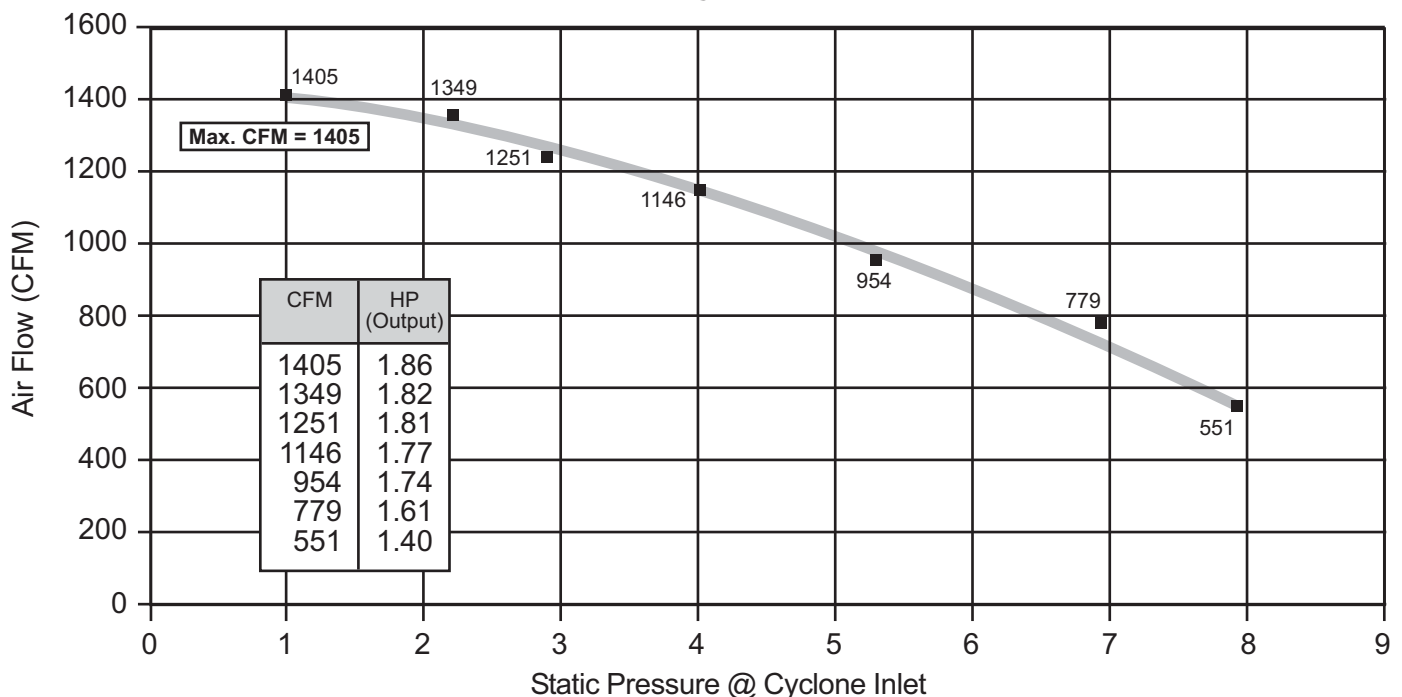
- Sleeve kit adds 7" (4" is minimum)
- 35 gal. bin is 22" dia. x 22.5" h / 55 gal. bin is 22" dia. x 35.5" h
- Several Filter Options Available- Galvanized steel construction
- The collector can be hung on the wall, from the ceiling, or free standing support using the 11 ga. angle iron ring at the top  
(See assembly instructions)

## 2hp Commercial System

- ▶ 1405 max cfm
- ▶ Industrial TEFC 2hp motor
  - 115v / 20 amps. 208 - 230v / 11.4 - 10 amps
- ▶ 18 gauge galvanized cyclone & integral blower
- ▶ 7" dia. inlet / rectangular outlet
- ▶ 13.5" dia. x 4" wide cast aluminum fan wheel  
back inclined non-sparking, non-ferrous balanced to .3 mil
- ▶ Sound 74 -75.5 dB with Filter and Silencer

Static pressure and volume together determine a fan's performance. Several factors, such as layout of ductwork and diameter of openings, can affect a fan's performance.

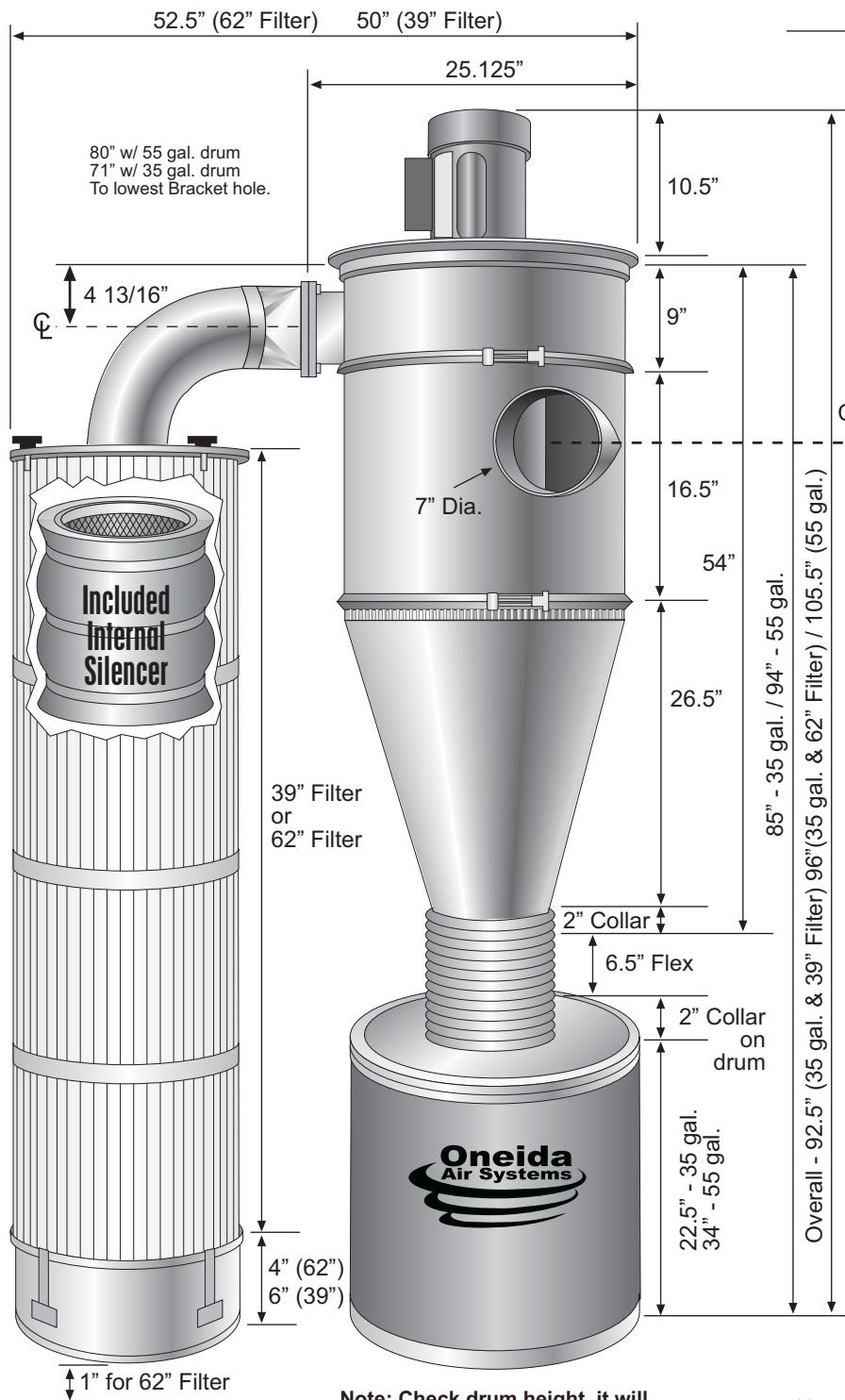
## 2hp Commercial System Performance Curve



# IV. Dimensions

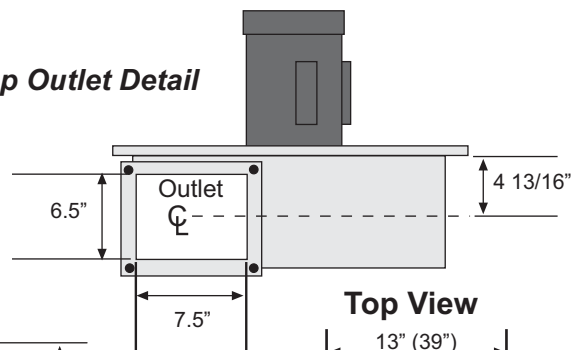
## For Minimum Mounting Heights

*\*Dimensions subject to slight variation in manufacturing.*

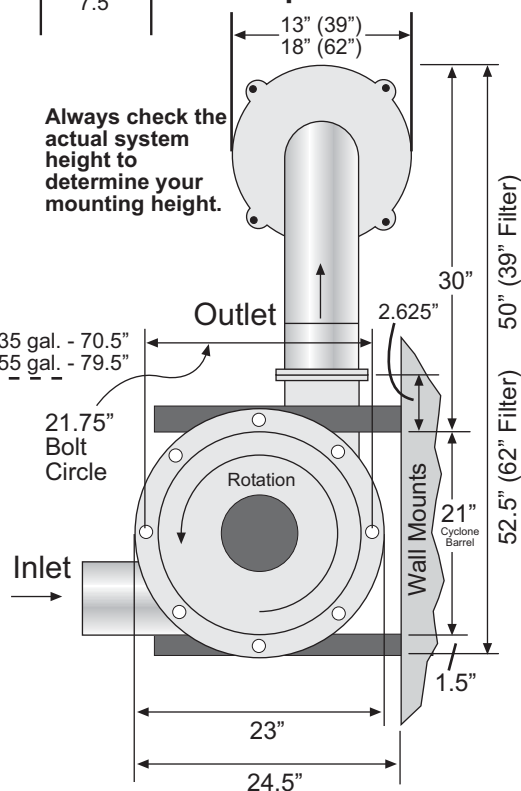


**Note:** Check drum height, it will affect your bracket height.

### 2hp Outlet Detail

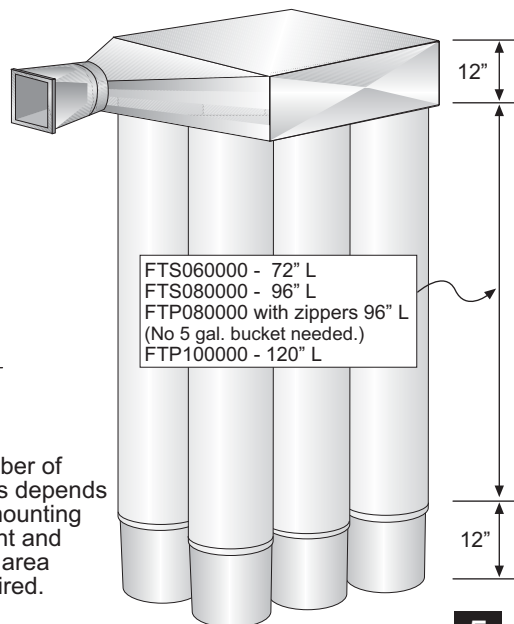


**Always check the actual system height to determine your mounting height.**



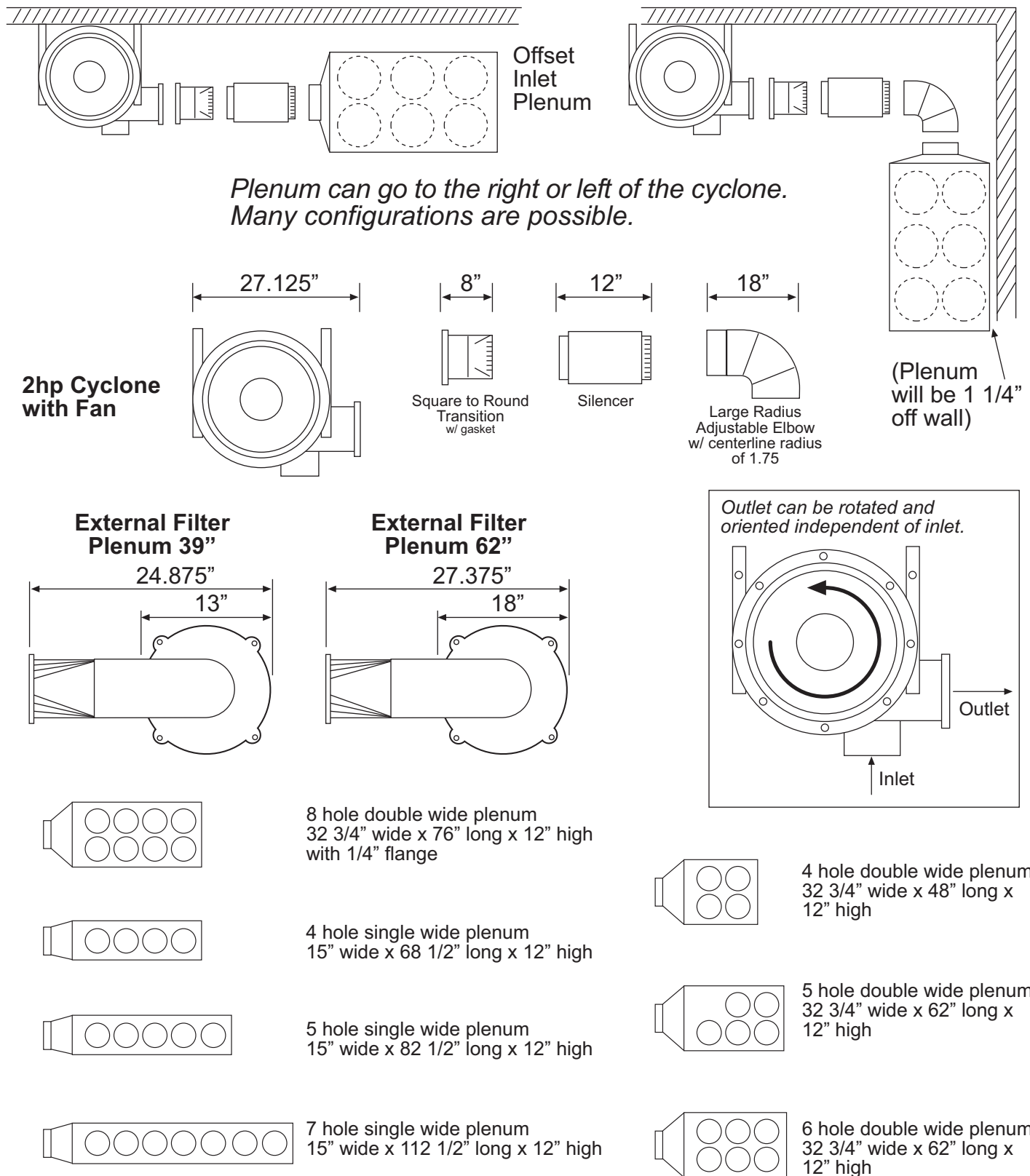
**Outlet - Can be rotated independent of the inlet.**

### External Tube Filter



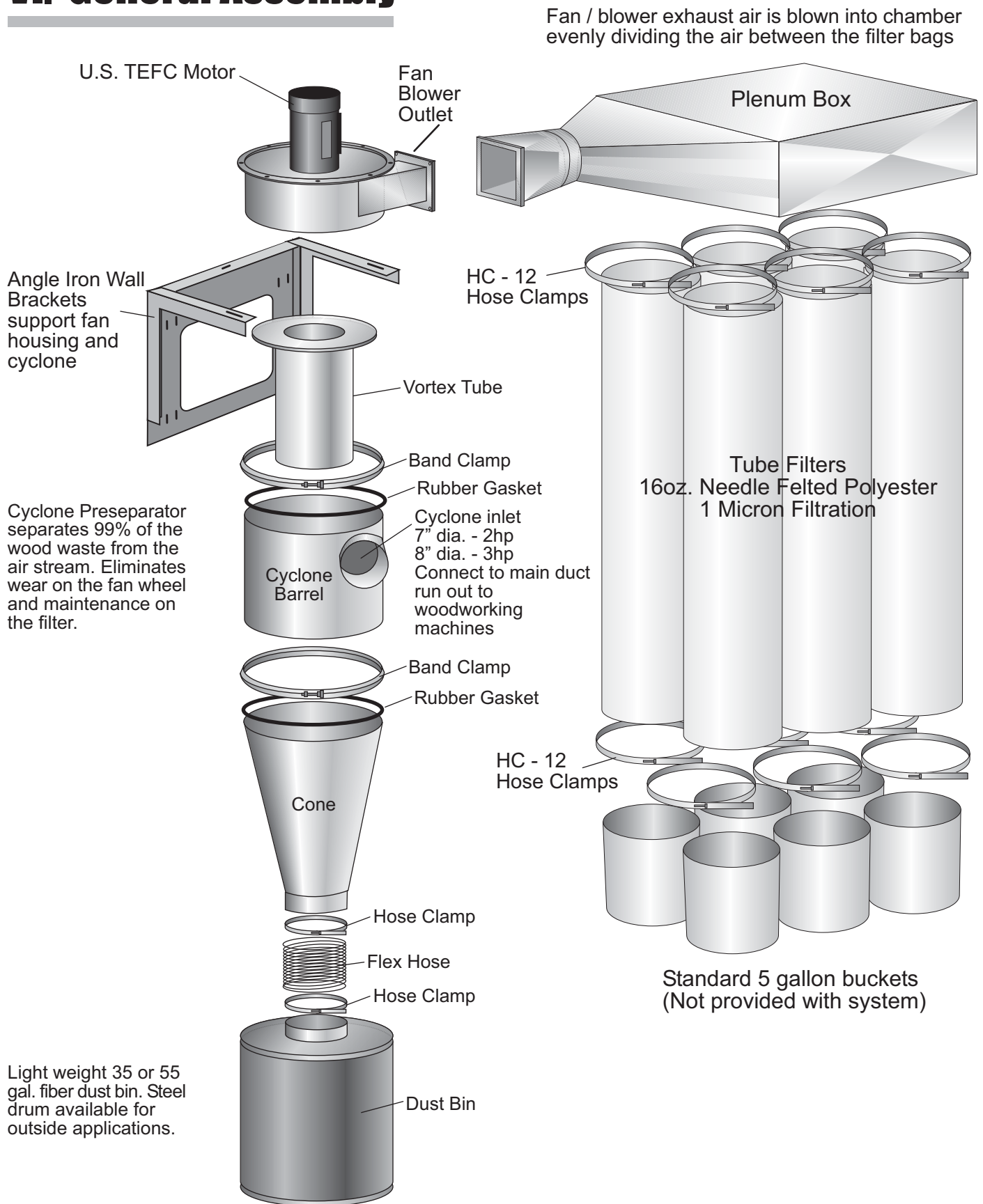
Number of tubes depends on mounting height and filter area required.

# V. General Tube Filter Layout Dimensions





# VI. General Assembly



**Note:** For cyclonic preseparator there must be an air tight seal between cyclone and dust container. Dust bin must be located vertically under cyclone, material drops down by gravity.



# VII. Bracket Assembly

1. You must determine the direction the fan outlet will point to proceed with this mounting assembly. 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"

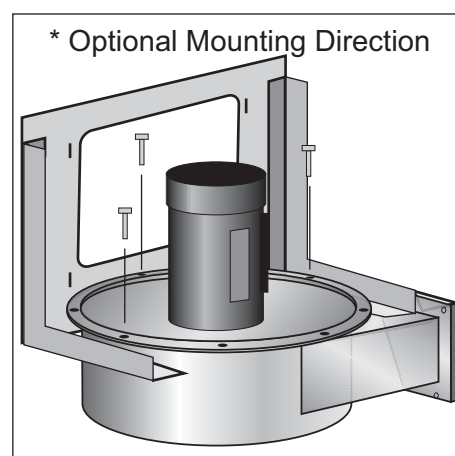
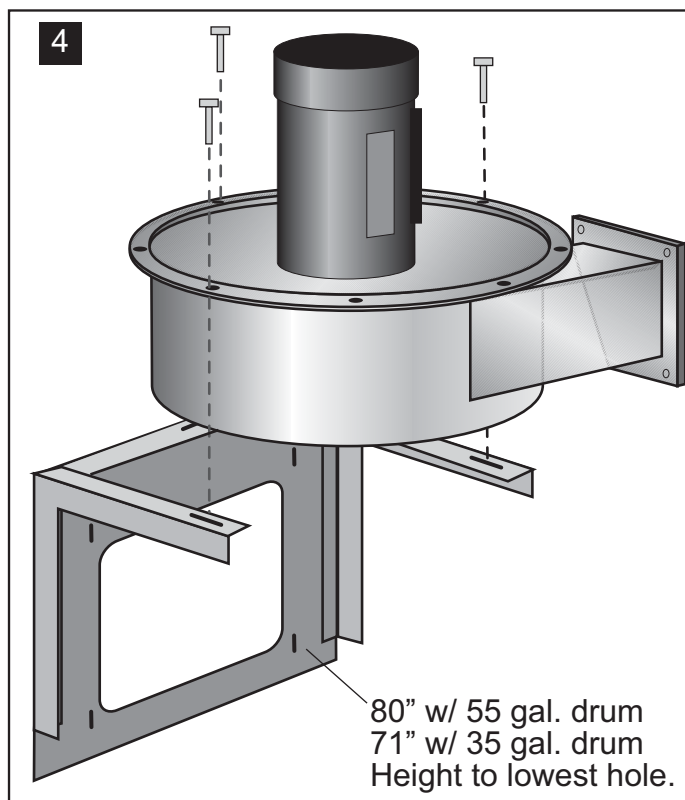
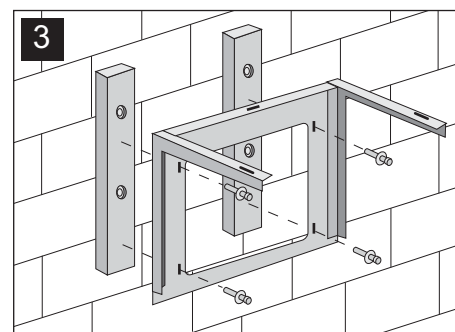
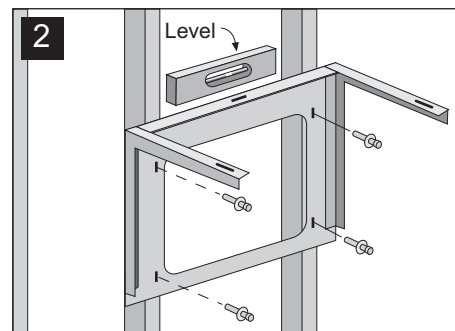
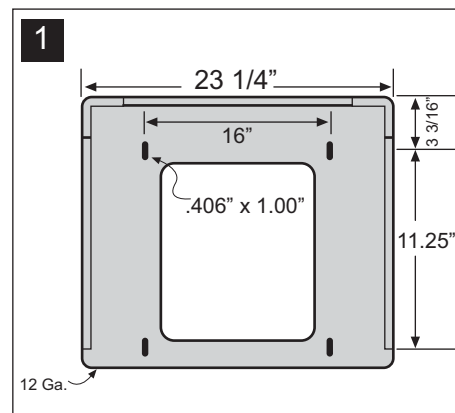
Note: Bolts included to mount bracket to collector. Hardware NOT included to mount to wall.

2. 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 holding the fan housing over bracket. Line up one hole in Ring with hole in each bracket at desired rotation of outlet. If rotation you desire does not correspond to an existing hole in Angle Ring, drill new ones. Use three 3/8" bolts (included) with washers & lock washers to secure the fan. See Fig. 4.

6. Attach tightly with bolts. See Fig. 4.



**Note: Please do not install an Oneida Dust Collection System alone. Competent assistance is advisable. Units are heavy!**

# VIII. General Assembly Instructions - All Models

**Wiring should be done by a licensed electrician!**

1. Wire motor according to wiring diagram on page 13. Use a cord rated for a minimum of 20 Amps. Make sure the cord you use is rated for the same power as the motor. Always follow motor plate diagram and wire for correct rotation. (See *Wiring diagram section*)

2. Secure fan assembly to Bracket (See Bracket assembly Pg. 8) then attach cyclone barrel with ductwork clamp ring to the fan assembly. Check to see if rubber seal is attached to barrel top. Align the inlet of the cyclone in the proper direction for the system. See *Fig. 1*.

3. Attach the cone to the barrel with the metal clamping ring. Lightly tighten the ring bolt. It is important that there is no air leakage between the cone and barrel of the collector. There should be a black rubber seal between the cone and barrel. See *Fig. 2*

4. Attach flex hose to bottom of collector and to lid of dust bin. Securely fasten hose clamps. Cut excess length of flex hose if needed. Longer flex hoses are available for installations requiring more height. There must be an air tight seal between the collector and dust bin. See *Fig. 3*

5. Make sure the dust bin lid sits securely and the rubber gasket on the bin lid is in place on the barrel. Maintain an air tight seal between cyclone and dust bin to prevent motor from overheating due to over amperage draw.

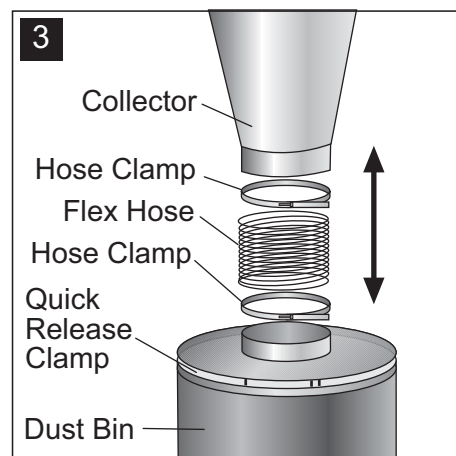
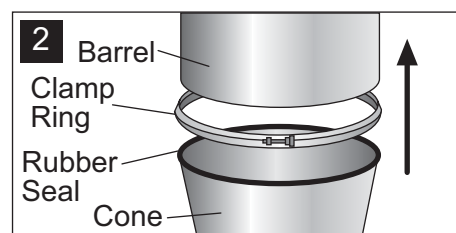
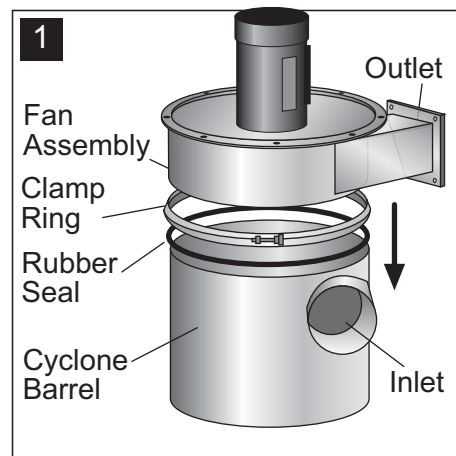
**IMPORTANT:**

Do not operate the collector until the dust bin is in place and the connector is air tight or motor damage could result!  
**Stay clear of fan exhaust while collector is operating.**

6. Attach the ductwork from the woodworking machines to the inlet of the collector.

7. **For External Cartridge, Tube Filter or No Filter models** see following pages 10 and 11.

8. On external filter models, attach Filter Plenum Assembly or External Cartridge Assembly with 4 bolts. See *Filter Assembly Section, pages 10 & 11 for details*.



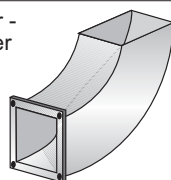
# IX. Filter Assembly

## No Filter Assembly

1. Exhaust air to exterior of building. Mount directly at the hole in exterior wall or use a square-to-round transition and ductwork to vent air to exterior.

### Option -

\* Exhaust Diverter -  
Can be used either  
up or down

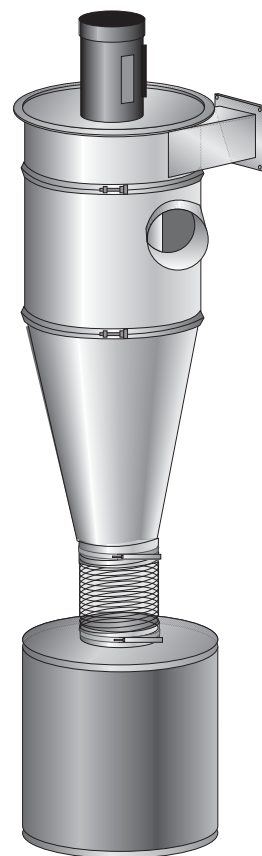


\* Only usable on No Filter.

*Note: Do not return exhaust air to the shop unless filter media is added.*

## Caution:

If exhaust air is vented outside you must provide make up / return air.  
Flue gases (carbon monoxide) can be drawn into the shop from furnaces, water heaters or other appliances.



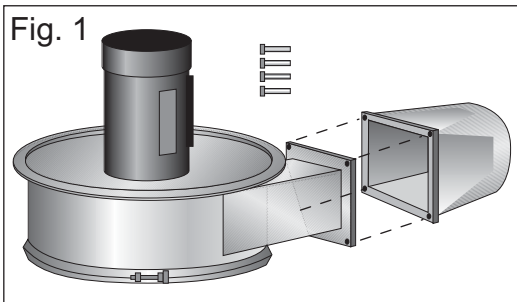
## External Filter Assembly 39"

**\*Silencer Included.**

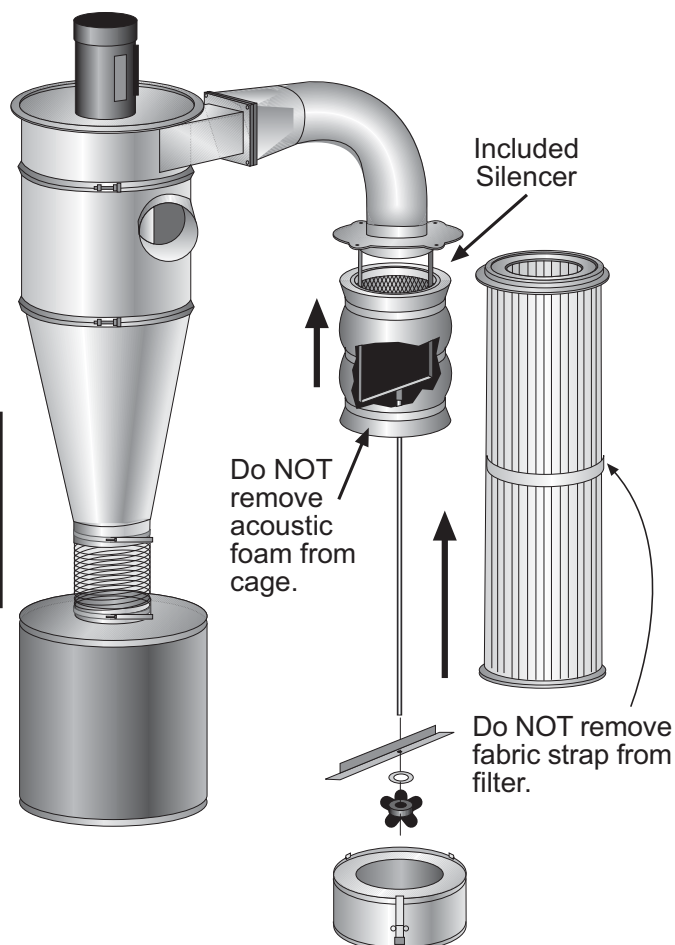
1. Attach cartridge with four bolts provided. See Fig. 1
2. If Filter requires additional support. Use the plate at the top of the filter to support the filter assembly.

**Note:** If filter cartridge is located away from the cyclone and motor, additional square-to-round connectors and pipe can be purchased.

Fig. 1



**Do not  
remove foam  
from around  
wire cage!  
This is part of  
silencer!**



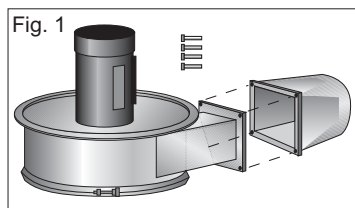
**For Filter cleaning instructions, see pg. 14.**

## External Filter Assembly 62"

1. Bolt together the Blower and Plenum assembly using the four 3/8" bolts supplied. Make sure the gasket is in place between the Fan/Blower outlet and the Plenum Inlet. See Fig. 1

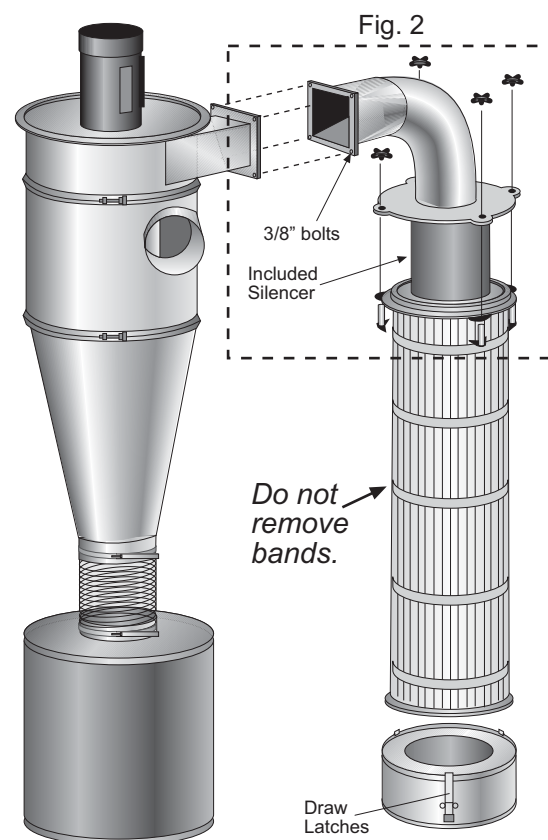
2. Attach cartridge with four bolts and black thumb knobs provided. Bolt the Filter to the Plenum Assembly. See Fig. 2.

3. Latch the Dust Bin to the bottom of the Filter using the draw latches.

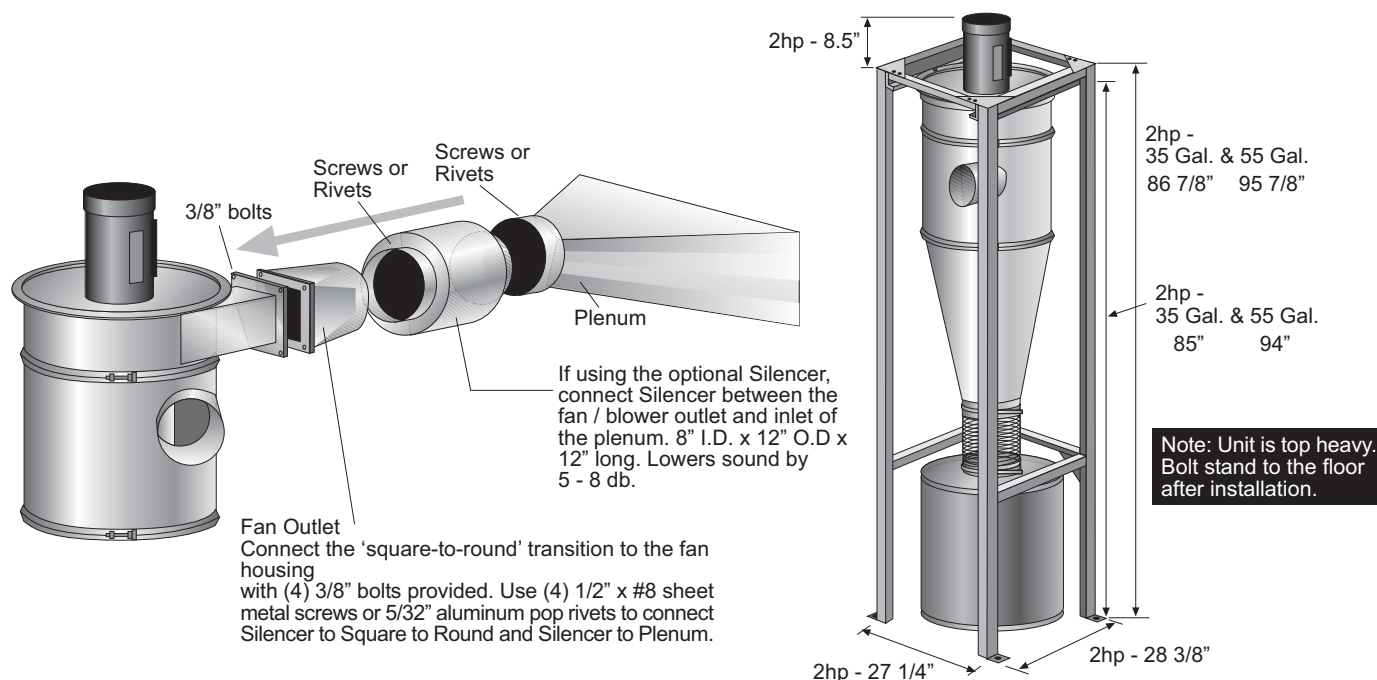


"C" rated spun bonded polyester filter contains 130 sq. ft. of filter area. The filter captures between 0.2 - 2.0 microns of test material at a face velocity of 11 FPM.

4. If Filter requires additional support. Use the plate at the top of the filter to support the filter assembly.  
Note: Filter will require additional support if separated from the cyclone unit by a length of pipe or if the silencer option is added. If filter cartridge is located away from the cyclone and motor, additional square-to-round connectors and pipe can be purchased.



## X. Fan Outlet Transition, Silencer and Angle Iron Stand



# **XI. External Filter Bag Assembly** See additional Plenum instruction sheet for 5 hole single row.

1. Connect the plenum to the fan / blower outlet with 3/8" bolts provided. Band clamp tube filters to the Ring Thimbles on the bottom of the plenum and to the tops of the 5 gal. buckets.
2. Bolt square to round transition and plenum to square exhaust transition using (4) 1/2" screws or 5/32" aluminum pop rivets.

## **Build your own plenum**

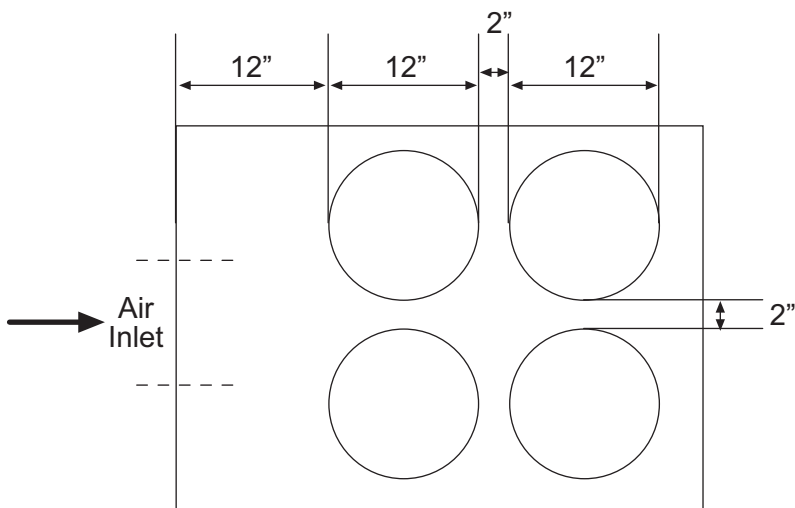
Plenum box can be constructed of plywood or metal. Oneida Air Systems sells 22 gauge galv. plenum boxes. The filter medium is a 16 ounce polyester felt which has been singed inside to help release caked dust.

For the tube style filters, a 12" dia. ring thimble (Part # FAZ000000) is needed for each filter. The plenum box and the ring thimbles are suspended above the floor at a height that will allow for a 5 gallon plastic bucket and tube filter to fit properly underneath.

A well sealed plywood box will make a good plenum for air distribution through the tube filters. Use plywood for the plenums. Cut 12" dia. holes in the bottom of the box (spaced 2 - 3" apart), so that the ring thimbles fit snugly. The rings should not be able to slide through the holes. Bend tabs on Ring Thimble over then apply duct sealant or caulk around the edge of the ring thimble. Use sheet metal screws to secure.

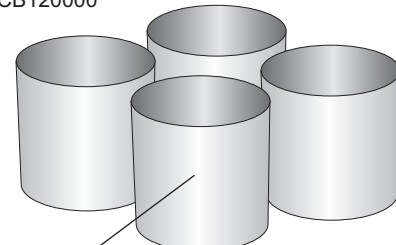
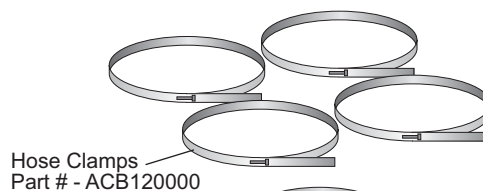
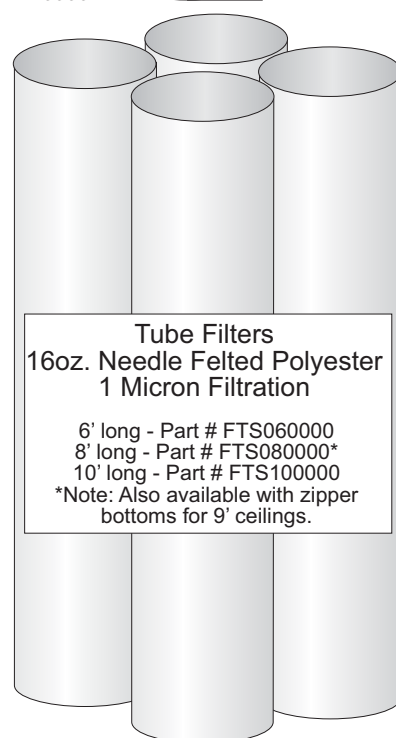
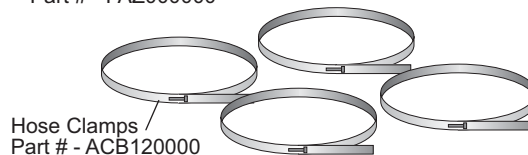
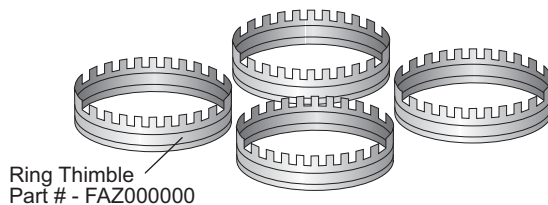
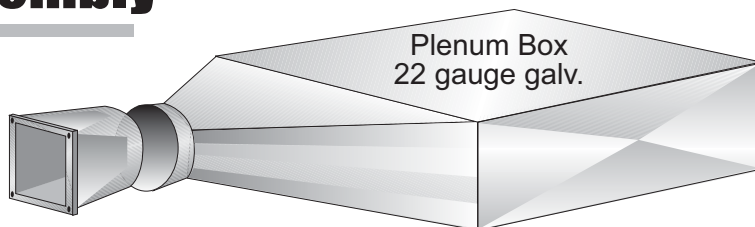
Be sure to remove any sharp edges from the bucket or ring thimble that may abrade the filter. Slide the filter over the thimble past the raised bead. Secure with a band clamp. Slide the bottom of the filter over a five gallon plastic bucket. Secure with a band clamp or strong bungee (shock cord). Be sure filter is not loose or moving around when the system is on. This could lead to wear on the filter.

With the use of a cyclone pre-separator, the buckets will not need emptying very often, but do need to be checked occasionally. Simply lift the bucket, the weight will indicate how full the bucket has become.



Plenum box height - 12" min. Use 3/8" or thicker plywood. Seal plenum box with silicone.

*Note: The number of filters and hole configurations vary. Check with a sales technician if you have questions.*



5 gallon buckets 12" high (Not supplied with system). Can be purchased, Part No. SDS050000 or recycled joint compound buckets or food storage containers can be used.



## XII. Fan / Blower Wiring Diagram - Leeson Motors

**Wiring should always be done by a licensed electrician!**

**Before Operation** - Before making electrical power connections, check for proper grounding of motor and application. All electrical contacts and connections must be properly insulated and enclosed. Coupling, belts, chains or other mounted devices must be in proper alignment, balance and secure to insure safe motor operation.

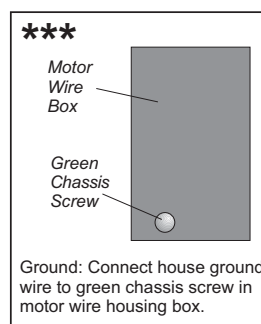
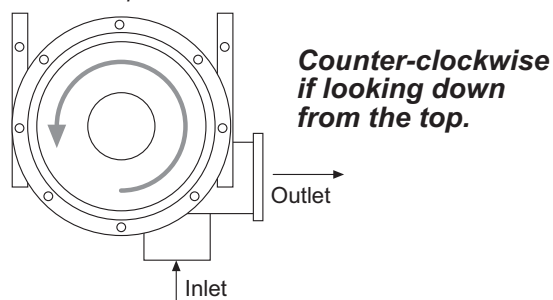
**Electrical Wiring** - Prior to connecting to the power line, check motorplate for proper voltage and rotation connection. This motor should be installed in compliance with the National Electrical Code and any other applicable codes. Voltage at motor not to exceed + or - 10% of nameplate voltage. Licensed electrician should make all electrical connections.

Always use the wire diagram on the motor plate. Sometimes the wire diagrams on the motor will be for different rotation. Wire for counter-clockwise rotation.

### 2hp Fan / Blower Wire Diagram - Single & Three Phase

Single Phase Low Voltage 115V	Single Phase High Voltage 208 - 230V	Three Phase Low Voltage 208 - 230v	Three Phase High Voltage 460V
P1 — Line 1	P1 — Line 1	L1 — T1 & T7	L1 — T1
P2 — Wire Nut	P2 — Tape	L2 — T2 & T8	L2 — T2
T3 — Tape & Insulate	T2 — Wire Nut	L3 — T3 & T9	L3 — T3
T8 — Tape & Insulate	T3 — Tape & Insulate	T4 } T5 } T6 } Connect	T7 — T4
T2 — Line 2	T8 — Tape & Insulate		T8 — T5
T4 — Line 2	T4 — Line 2		T9 — T6
T5 — Line 2	T5 — Line 2	<p>Connect leads T1, T2, T3 to line. To reverse rotation interchange any two power line leads.</p>	

Outlet can be rotated and oriented independent of inlet.



\*\*\* All motors should be grounded.

**Lubrication** - Smaller frame size motors have permanently lubricated bearings.

# XIII. Filter Maintenance

## External Filter Cartridge Cleaning Intervals

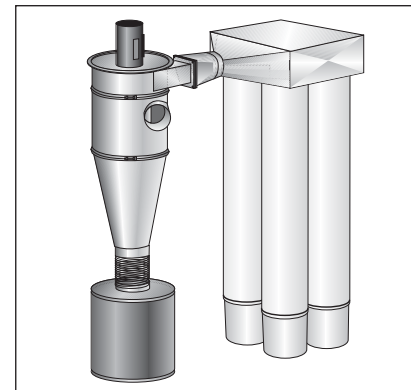
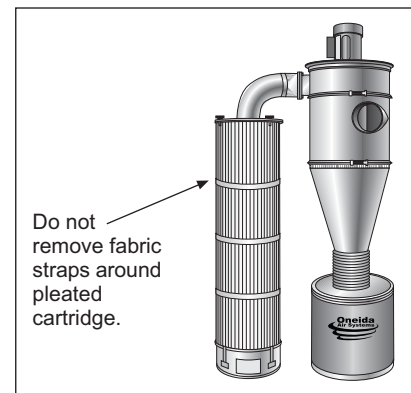
When unit is turned off, use compressed air to blow dust off from exterior of filter. Hold nozzle at least 8" away from filter pleats\*. Do not remove bottom dust pan before or during the blow-off process! Let dust settle into dust pan. Unclip and dump out dust. Filter removal is not required. You can also run your fingers around the filter pleats to knock material down.

*\* WARNING: A close, direct blast with the compressed air nozzle too close to filter, may damage filter media. Always wear safety glasses while blowing off filter. Do not remove straps around pleats.*

## External Filter Bags

Tap or gently shake filter periodically and let dust settle into the 5 gal. buckets. Lift buckets to determine how full buckets are. Empty dust from buckets.

**Caution: Fine dust collected in filter is hazardous to your health! Do not breathe!**



## Fan / Blower & Cyclone Outside Placement

Fan / Blower has a TEFC - Totally Enclosed Fan Cooled motor. Motor should be protected from weather to extend motor life. Note: Use steel drum when placed outside.

## Before Operation:

Check set screw and key in fan wheel, make sure fan wheel is secure. Fan blower should not vibrate. Fan wheel is balanced to within .3 mils.

Mount system and connect cyclone and dust bin. Make sure dust bin is in place before turning on the dust collector.

**Do not operate Fan / Blower unless Cyclone and Dust Bin are in place! Motor will overheat!**

## Electrical Wiring:

Make sure power source matches wire voltage configurations on motor.

Prior to connecting to the power line, check motor plate for proper voltage and rotation connection. Wire for counter-clockwise rotation. Fan wheel must rotate counter-clockwise if looking down on fan housing.

Note: If fan is wired incorrectly and fan is rotating backwards, poor suction and airflow will result. See Wire Diagrams on motor plate.

Use 12 gauge cord for the 2 & 3hp fan / blowers.

## Lubrication:

The motor is supplied with pre-lubricated ball bearings, lubricated for the life of the bearing.

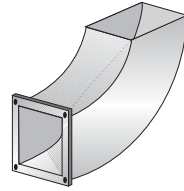
**Caution: Rotating Fan Blades! Keep objects clear of outlet.**



## XIV. Options

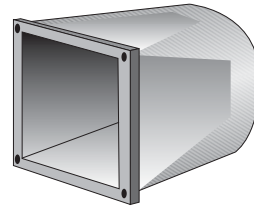
### Exhaust Diverter

Can be used either pointing up or down. Useable only on No Filter or Internal Filter Models.  
Part # - BQX207100



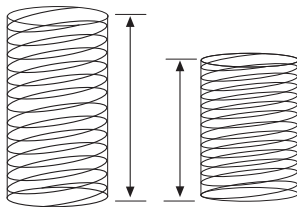
### Square-to-Round

For all models. Converts the flanged rectangular outlet to a 8" dia. round. Required when adding a silencer.  
Part # - BQX208001



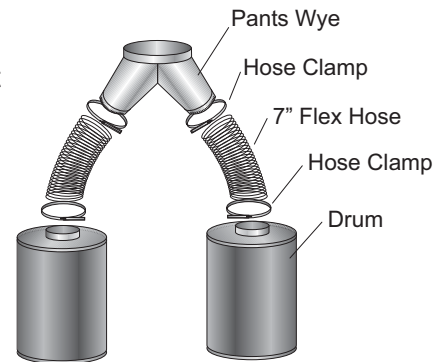
### Flex Hose

2hp - 9" dia. clear flex hose. Longer lengths can be purchased to accomodate different mounting heights.  
Part # - DHF090000



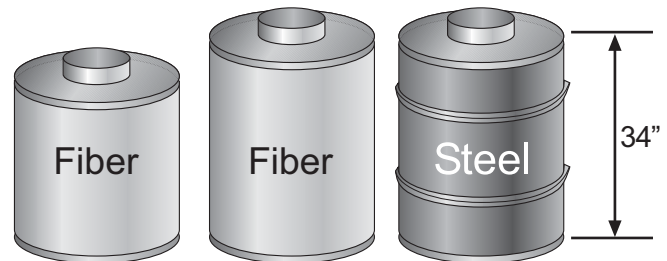
### Splitter Kit

Part # - SDK350907 - Kit as shown w/ (2) 35 gal. fiber drums  
Part # - SDK550907 - same w/ 55 gal. fiber drums  
Part # - SEK550907 - same w/ 55 gal steel drums



### Fiber or Steel Dust Bins

Fiber 35 gal. - 22" dia. x 22.5" high Part # - SDS350000  
Fiber 55 gal. - 22" dia. x 35.5" high Part # - SDS550000  
Steel 55 gal. - weather resistant -  
- 23" dia. x 34" high Part # - SES550000



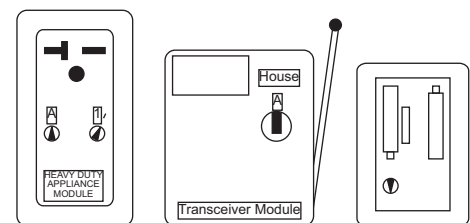
*Our stock drums range from 34" to 35 3/4".*

### Remote Control Switch - Does not work for 3 phase - 220v only

The system is easy to install. The relay plugs into the 220v outlet between the outlet and the collector. (This activates the dust collector.) The Transceiver receives the signal from your hand-held Transmitter and sends the signal to the relay and is plugged into any 110v outlet in your shop that is on the same service as the collector. Extra Transmitter available.

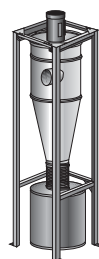
Note: The customer will need to run a 220 cord and plug to the system. It does not come pre-wired.

Part # - AWX220000 Extra Transmitter - Part # - AWT220000

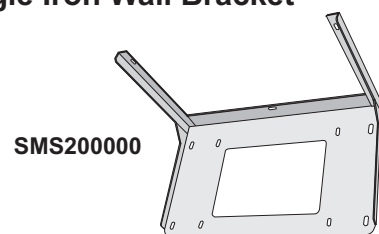


### Stand - 2hp

2hp Iron Stand  
35 gal. - 89 7/8" h x 27 1/4" w x 28 3/8" deep  
55 gal. - same as 35 gal.  
Part # - STZ020035 (2.0 w/ 35 gal.)  
Part # - STZ020055 (2.0 w/ 55 gal.)



### Angle Iron Wall Bracket



# **XV. Troubleshooting**

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**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.***

# **XVI. 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.**

# **XVII. Terms and Conditions**

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## ***Checking in Order***

Please look over the shipped order 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 shipping packaging, however slight, on the shipping delivery receipt. This could be an indication of extensive concealed damage. The shipping company will not take responsibility if the damage is not noted on the delivery receipt. In the event of shipping damage, call O.A.S. immediately so we can expedite replacements. Please check in all parts within 3 days from receiving order. Notify O.A.S. immediately of any missing or incorrect parts. O.A.S. 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. This warranty does not apply to defects due 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 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. 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 destination. Title and risk of loss shall pass to the Buyer upon delivery to such destination. Buyer pays transportation expenses. Dates of shipment are advisory and O.A.S. will make reasonable efforts to ship on or before the date states for shipment, however, O.A.S. 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 and investigate all returned products before Buyer's claim is settled. All products returned for a cash refund must be unused, resaleable and purchased within the last six months. There are no refunds on flex hose or custom made components. *There will be a 25% restocking fee applied to any returned items.*

## XVIII. Directions for Cleaning External Filter

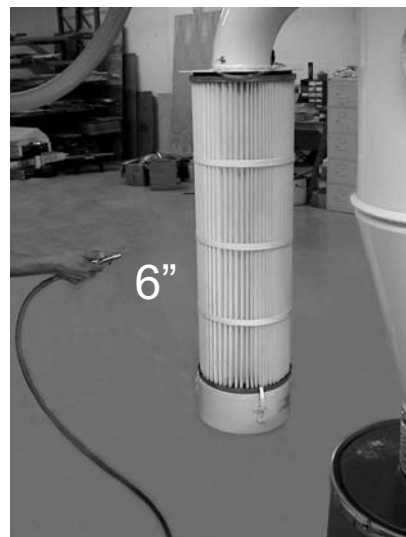
*All steps should be done with a dust mask and eye protection.*

*The External Filter can be cleaned using the following methods:*

### **1. Compressed air from outside.**

Blast air along pleats of the filter at about a 20° 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 filter material.



### **2. Empty Dust Bin.**

Wait a few minutes for internal dust to settle then unclip and carefully empty dust bin.



### **3. Rinse with water. (Optional)**

Keep nozzle at least 6" from filter and keep your pressure down. Closer blasts may damage filter material. Rinse off *INSIDE* of filter. Let filter dry completely before reuse or keep a spare filter on hand.

