Oneida® Air Systems

The **Industry Leader in Dust Collection**

OWNER'S MANUAL

Dust Gorilla Pro
Dust Collector
with SMART Boost

3 HP/5 HP

\# XGK030035
\# XGK030055
\# XGK030035W
\# XGK030055W
\# XGK050035
\# XGK050055
\# XGK050035W
\# XGK050055W

U.S. Patent: #8491685,
#9370740, #8514090,
#8496719, #7247180,
D908854, and patent pending

C **ETL** US
LISTED
Intertek

Appearance may vary slightly

Table of Contents

System Start-Up Information

⚠ **MAKE SURE TO READ AND UNDERSTAND THE INSTALLATION AND MAINTENANCE INSTRUCTIONS AS WELL AS ALL RECOMMENDED SAFETY PRACTICES.**

⚠ WARNING ⚠

1. Install ductwork/flex hose completely before operating collector.
   a. Seal ductwork with silicone sealant or duct tape if leaks are found.
   b. Have dust drum in place and sealed.
2. THIS UNIT IS NOT RATED FOR USE IN COMBUSTIBLE ENVIRONMENTS.
3. This equipment incorporates parts such as switches, motors or the like that tend to produce arcs or sparks that can cause an explosion.
4. Operating without the filter can blow debris around and cause injury
5. To reduce the risk of Electric Shock, DO NOT use on wet surfaces and have adequate protection outdoors. 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
6. Exhaust air should not be vented into a wall, a ceiling, or a concealed space of a building.
7. To reduce the risk of injury from moving parts - unplug BEFORE servicing.
8. Ensure that your dust collector is turned off and unplugged during installation.
9. Use this equipment for dry material collection only. DO NOT use for liquid collection.

⚠ FIRE HAZARDS ⚠

1. Wood shaping and cutting processes generate wood chips, shavings and dust. These materials are considered combustible. Airborne wood dust below 420 microns in size (0.017 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.
2. 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.
3. The following points are worth heeding:
   a. 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.
   b. Fire Marshals 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.
   c. 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.
   d. NFPA664 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 1,500 cfm (cubic feet per minute).

System Start-Up Information (Continued)

This exempts some small operators from the NFPA code 664, but other codes may apply in your jurisdiction. Consult your local Fire Marshal for help. Additional information can be found in NFPA Code Book 664.

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

5. DO NOT use this product to collect flammable dust or flammable vapors! - Fire or explosion may occur!

6. NEVER collect sparks from a bench grinder into a wood dust collector.

7. NEVER introduce sparks or sources of ignition into the dust collector.

8. Check dust bin frequently for smoldering material and before leaving the shop.

9. Keep portable fire extinguishers handy.

    a. The ABC type (dry chemical) is generally a good choice for small wood shops.

    b. Additional information on portable extinguishers can be found in NFPA 10 (Standard for Portable Fire Extinguishers).

10. 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.

11. This high air volume will dilute the mixture below the lower limit of flammability. Be careful not to generate sparks into the sanding dust.

12. Empty dust bin and clean filter often, especially when sanding.

13. DO NOT overload woodworking equipment, especially sanders. Excessive frictional heat can spontaneously ignite dust.

14. Sparks can be generated in several ways:

    a. High speed sanders and abrasive planers may strike foreign material.

    b. Saws and edgers may strike foreign material and create a red-hot metal fragment.

    c. Knots in hardwood can create frictional sparks.

    d. Trapped metal when drawn into the collector can spark against ductwork.

    e. Check wood stock for old nails and screws which can create red hot metal fragments.

15. Avoid using excessively large wood waste bins.

16. ALWAYS check storage bins for smoldering material before leaving for the day.

17. Electrically ground all equipment and ducting. Static sparks can ignite wood dust. (Avoid using PVC drain pipe.)

18. DO NOT allow accumulation of layers of fine dust on horizontal surfaces (especially overhead lights, electrical boxes and fuse panels which can ignite dust.)

19. UNPLUG UNIT BEFORE SERVICING OR CLEANING

Customer Service Dept.

1-866-387-8822 • support@oneida-air.com

System Specifications for 3 HP

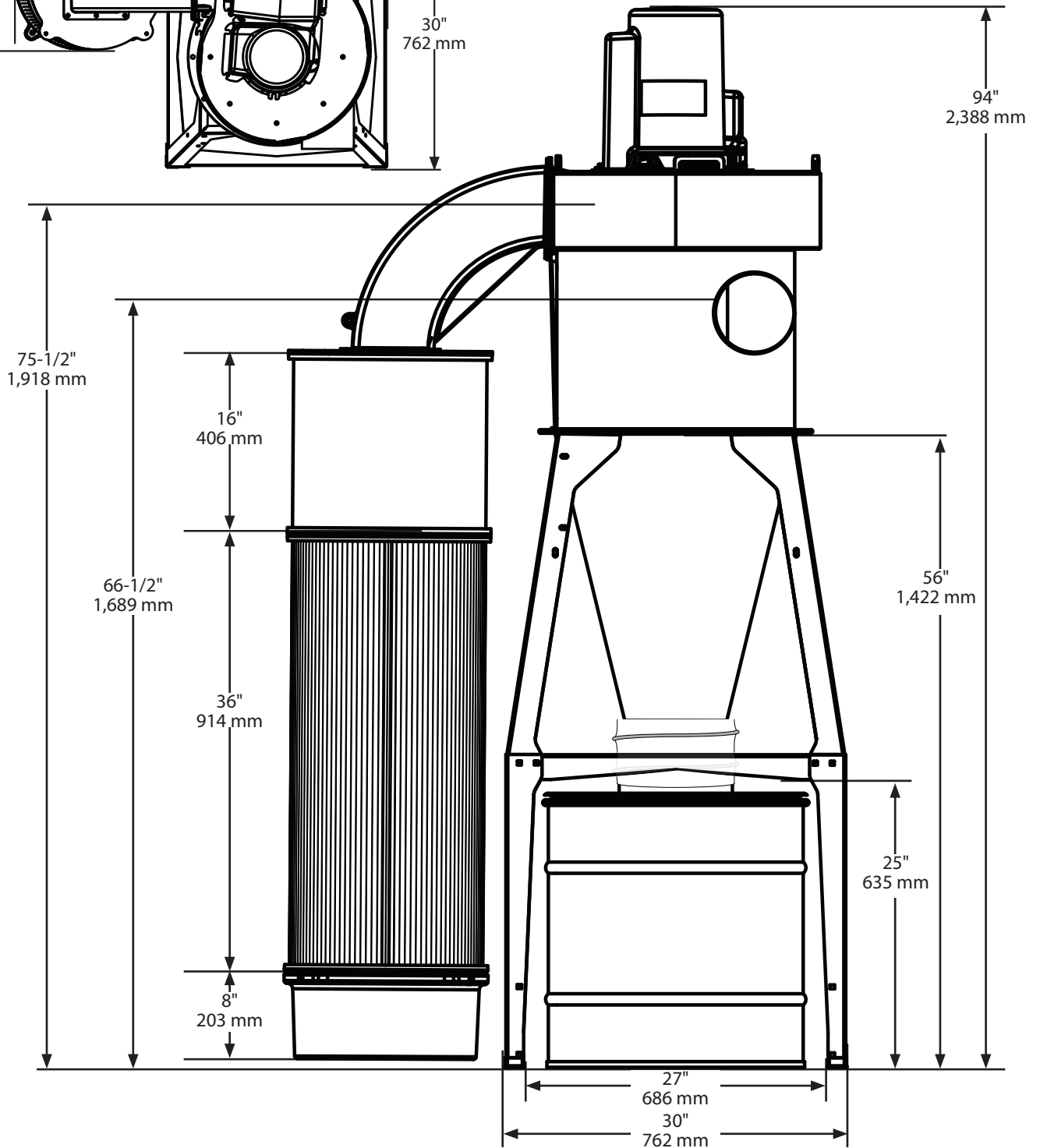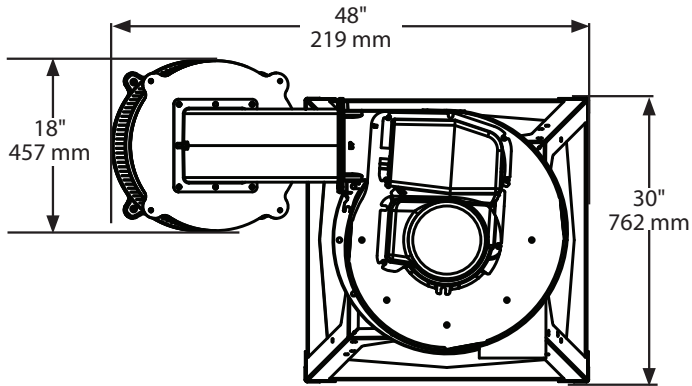| OPERATION	
Fan Rating (Free Fan)	3 HP: 2,940 CFM
Fan Rating (with Cyclone & Filter)	3 HP: 1,340 CFM at 3" WC
Maximum Suction Rating	3 HP: 23" WC
MOTOR AND ELECTRICAL	
Motor Type	U.S. Made TEFC Motor
Motor Insulation	Class F
Motor Service Factor	1.15
Horsepower	3 HP
Motor Speed	3,500-4,500 RPM
Phase	Single-Phase (1ph)
Voltage	208-230V
Cycle	60Hz
Listed FLA	3 HP: 15-17.5A
On/Off Switch	Remote Starter with Push button On/Off Switch and RF Keyfob
Power Cord	7 ft
Power Connector	Wire
Recommended Circuit Size	30A
Recommended Circuit Size	HACR
Sound Emission	With Stacking Sound Filter: 80 - 82 dBA @ 10 ft
IMPELLER	
Size	15"
Material	Single-piece, backward inclined, non-sparking/non-ferrous
CARTRIDGE FILTER	
Filter Media Type	G.E. H12 HEPA
Filter Efficiency	99.97% @ 0.3 microns
Filter Surface Area	110 Sq. Ft.
SYSTEM DIMENSIONS AND CONSTRUCTION	
Barrel/Cyclone Body	Heavy-gauge cold-rolled steel
Inlet	7" Diameter
Overall Height (with 35 Gallon Drum)	94"
Overall Height (with 55 Gallon Drum)	106"

System Specifications for 5 HP

OPERATION	
Fan Rating (Free Fan)	5 HP: 3,250 CFM
Fan Rating (with Cyclone & Filter)	5 HP: 1,625 CFM at 3" WC
Maximum Suction Rating	5 HP: 23" WC
MOTOR AND ELECTRICAL	
Motor Type	U.S. Made TEFC Motor
Motor Insulation	Class F
Motor Service Factor	1.15
Horsepower	5 HP
Motor Speed	3,500-4,500 RPM
Phase	Single-Phase (1ph)
Voltage	208-230V
Cycle	60Hz
Listed FLA	5 HP: 18-23A
On/Off Switch	Remote Starter with Push button On/Off Switch and RF Keyfob
Power Cord	7 ft
Power Connector	Wire
Recommended Circuit Size	30A
Recommended Circuit Size	HACR
Sound Emission	With Stacking Sound Filter: 80 - 82 dBA @ 10 ft
IMPELLER	
Size	15"
Material	Single-piece, backward inclined, non-sparking/non-ferrous
CARTRIDGE FILTER	
Filter Media Type	G.E. H12 HEPA
Filter Efficiency	99.97% @ 0.3 microns
Filter Surface Area	110 Sq. Ft.
SYSTEM DIMENSIONS AND CONSTRUCTION	
Barrel/Cyclone Body	Heavy-gauge cold-rolled steel
Inlet	7" Diameter
Overall Height (with 35 Gallon Drum)	94"
Overall Height (with 55 Gallon Drum)	106"

System Dimensions for 35 Gallon Drum

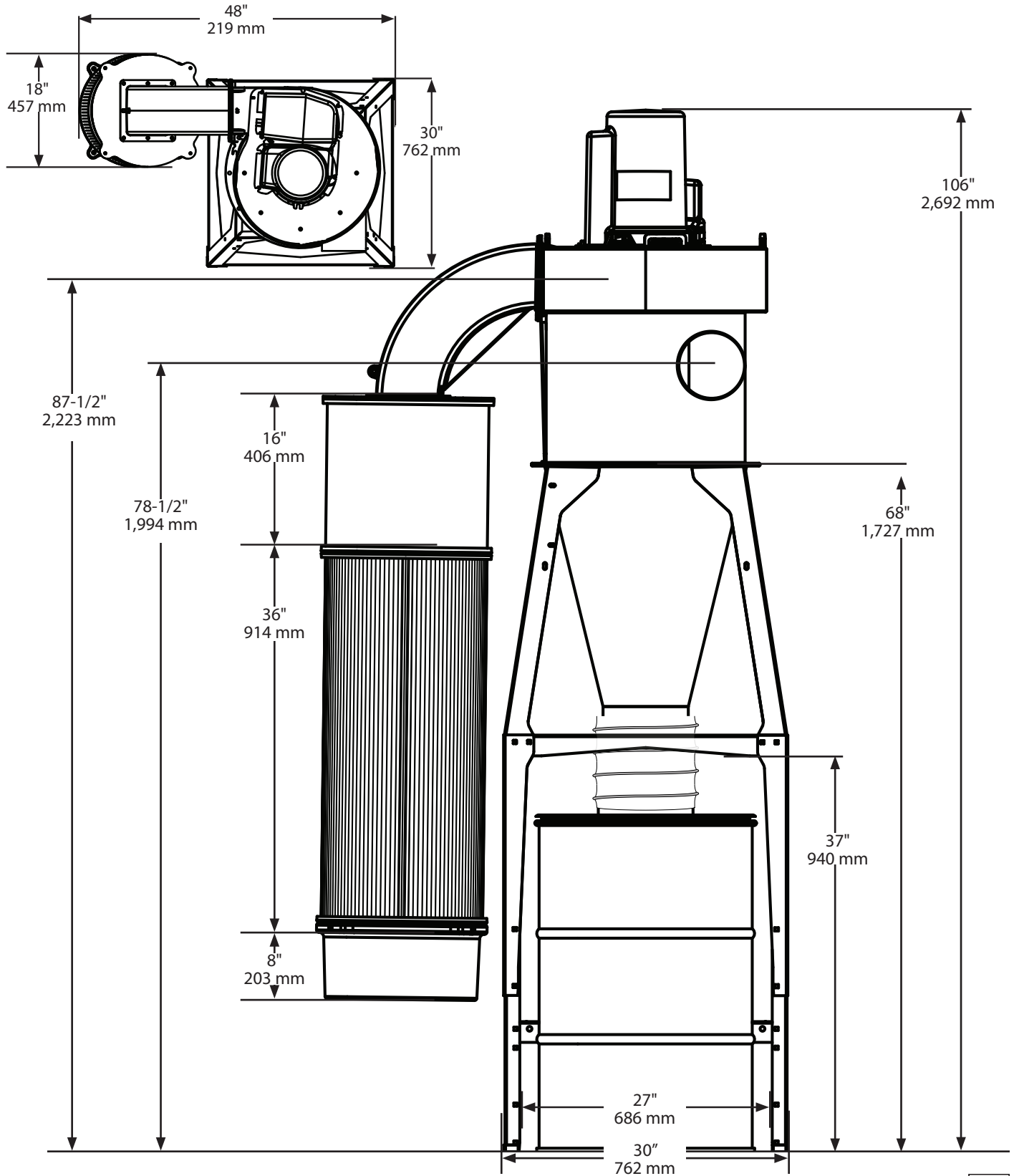Nominal dimensions shown with a 35 gallon drum. Dimensions subject to slight variations in manufacturing.

Top View

48"
219 mm

18"
457 mm

30"
762 mm

94"
2,388 mm

75-1/2"
1,918 mm

16"
406 mm

66-1/2"
1,689 mm

56"
1,422 mm

36"
914 mm

25"
635 mm

8"
203 mm

27"
686 mm

30"
762 mm

System Dimensions for 55 Gallon Drum

Nominal dimensions shown with a 55 gallon drum. Dimensions subject to slight variations in manufacturing.

Top View

48"
219 mm

18"
457 mm

30"
762 mm

106"
2,692 mm

87-1/2"
2,223 mm

78-1/2"
1,994 mm

16"
406 mm

68"
1,727 mm

36"
914 mm

37"
940 mm

8"
203 mm

27"
686 mm

30"
762 mm

System Contents

💬 If you cannot find an item on the list, examine the packaging materials very carefully. Certain components have been pre-installed. *There may be hardware leftover.

ID	Part number	Part description	Qty
A	BXI030118C BXI050118C	Motor Assembly 3 HP 1 PH Motor Assembly 5 HP 1 PH	1
B	BHX020005B	Fan Housing	1
C	SXI002100	Barrel	1
D	SCX002100	Cone	1
E	ACB120000	12" Clamp Band	2
F	DHF090001	9" Diameter Flex Hose	1
G	SEX550900	Steel Drum Lid w/ 9" Collar	1
H	SES350000 SES550000	35 Gallon Steel Drum w/ Clamp 55 Gallon Steel Drum w/ Clamp	1
I	FCS183600HF	18" x 36" HEPA Cartridge Filter	1
J	GXF010018	18" Plenum Kit	1
J1	FPX000001	Filter Plenum Elbow	1
J2	FPX010018	18" Filter Plate	1
J3	BSC180000	Drop-in Silencer	1
J4	FPZ000018	Fine Dust Bin	1
J5	AHX001318	Plenum Hardware Kit	1
J5A	AFJ051602	5/16-18" x 2" J-Bolt	8
J5B	AFT000001	5/16-18" Thumb Nut	8
J5C	AFB516125	5/16-18 x 1.25" Bolt	9
J5D	AFW180000	5/16" Flat Washer	9
J5E	AFT155175	5/16-18" Whiz-Lock Nut	9

ID	Part number	Part description	Qty
K	AHX000001B	SMART Gorilla Hardware Kit	1
K1	RGZ000000	Neoprene Foam Gasket Roll	25 ft.
K2*	AHX000005	Stationary System Hardware Pack	1
K2A*	AFB115114	5/16-18" x 1-1/4" Hex Head Bolt	46
K2B*	AFT155175	5/16" Whiz-Lock Nut	46
K3	FGA000002	14" Grounding Cable w/ 8-18 x 3/8" Self-tapping Screws	1
K4	AXD000006	1" Hook Tape	2 ft.
K5	AXD000007	1" Loop Tape	2 ft.
L	STX002100A	Plenum Support Brace	1
M	STZ212300 SMS300021A	Stand Assembly Wall Bracket Assembly	1
N	BSS181600	18" Dia Stacking Sound Filter	1
O	AMR240000	Remote	1
P	AXB999110B	Dust Sentry	1

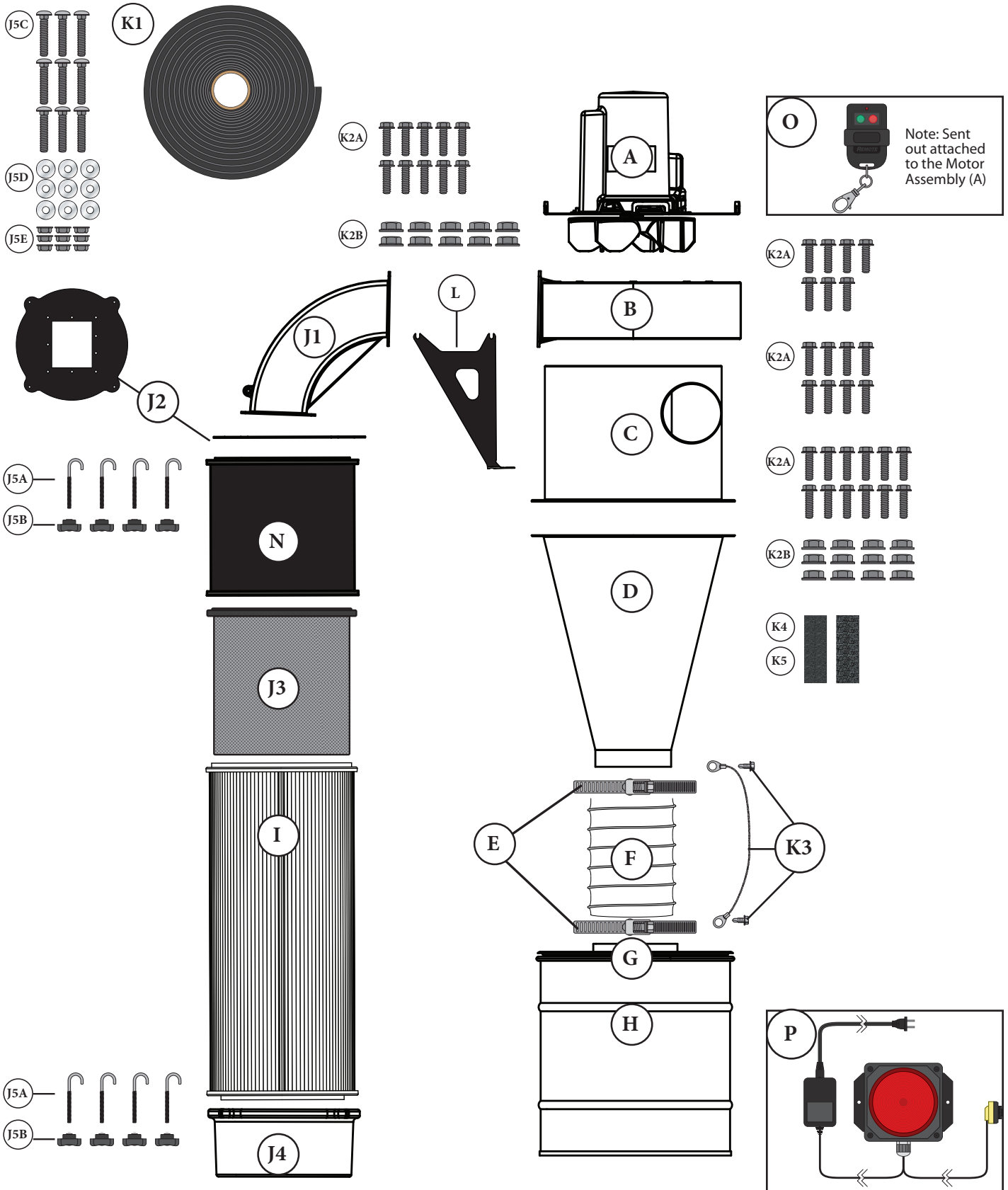*Please unpack the parts carefully and confirm you have received each item listed here.*

*Additional parts are included in your hardware package.

You will need the following tools:

GENERAL		FAN HOUSING	FILTER
8" Ladder	Razor Knife	Flathead Screwdriver	7/16" Wrench
Level	Diagonal Cutters	Hammer	7/16" Socket Wrench
Scissors	Tape Measure / Ruler		
1/2" Wrench	1/4" Socket		
1/2" Socket Wrench	Impact Driver		

J5C
K1
K2A
J5D
K2B
J5E

O
Note: Sent out attached to the Motor Assembly (A)

A

J2
J1
L
J5A
J5B
N
J3
I

B
K2A

C
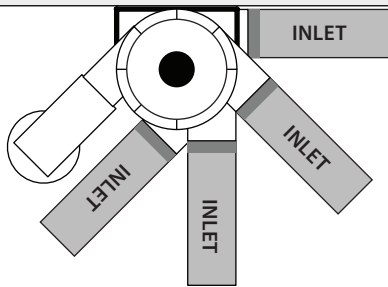K2A

D
K2A

K2B

K4
K5

E
F
K3
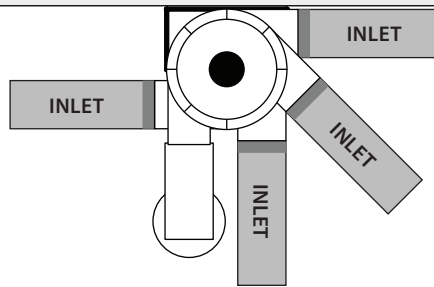G
H

J5A
J5B
J4

P

Assembly Instructions

⚠️ **Before you start, determine which direction you want your filter to hang and which direction you want your duct work to enter the collector. The fan housing and cyclone barrel bolt holes are drilled at 45 degree increments; Some orientations are not possible.**

Tip: The collector will seem quieter if the outlet is aimed away from primary work area.

✔️ CORRECT   ✔️ CORRECT   ✖️ INCORRECT

INLET

INLET

INLET

INLET

INLET

INLET

INLET

INLET

Filter will obstruct inlet pipe

INLET
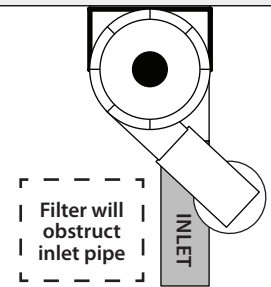
1 Assemble the supplied support for your system. Refer to the instruction sheet(s) included with your chosen support:

- Stand Instruction Sheet # ZBI000014 [FIG 1a]

- Leg Extension Instruction Sheet # ZBI000013

- Wall Bracket Instruction Sheet and Template # ZBI300021A and ZBT300021 [FIG 1b]
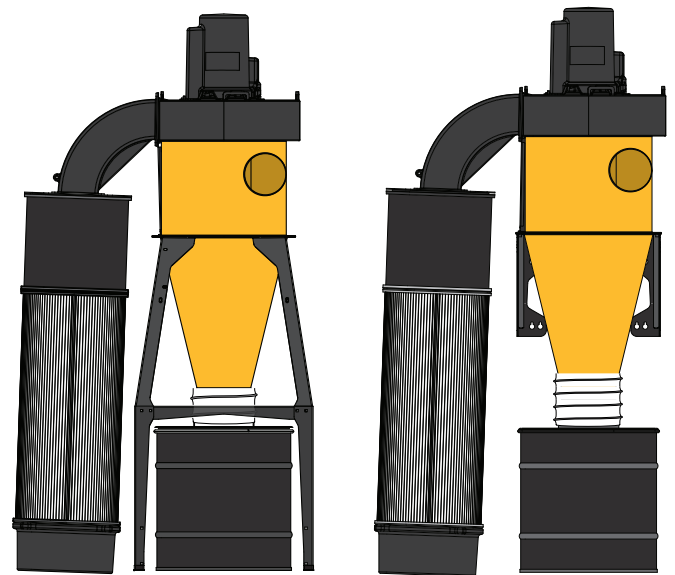
FIG. 1a   *FIG. 1b*

Assembly Instructions (Continued)

2 Apply Gasket (K1) making sure that there is no gap where the ends meet:

a. Apply to the top flange of the Cone (D) inside the bolt holes [FIG. 2a].

b. Apply to the top rim of the Barrel (C) outside of the bolt holes [FIG. 2b].

c. Apply to the Fan Housing (B) outlet inside the bolt holes [FIG. 2c].

d. Apply to the top of the Fan Housing (B) outside the bolt holes [FIG. 2d].

e. Apply to the Filter Plate (J2); it may partially cover the bolt holes. Make sure that there is enough room for the bolts to push through [FIG. 2e].

Note: Dust collection systems cannot operate effectively if there isn't a complete seal. There must be NO air leaks.
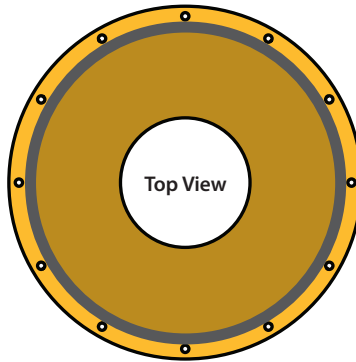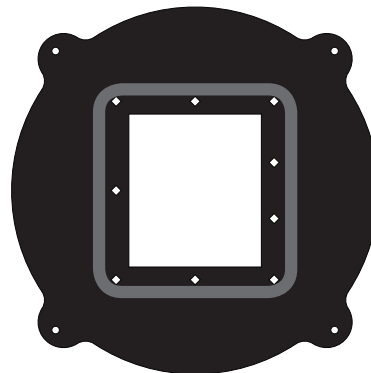

FIG. 2a
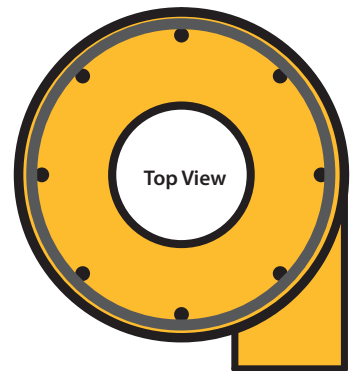
FIG. 2b
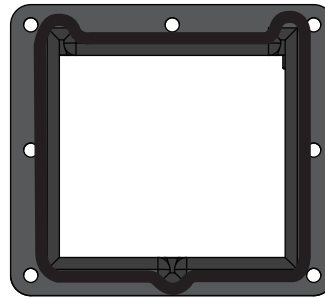
FIG. 2c
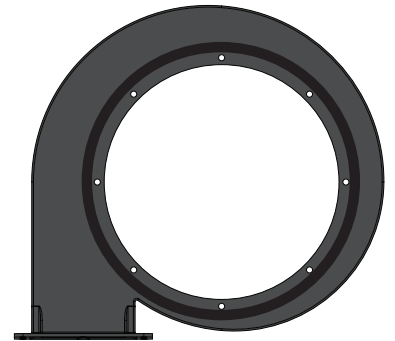
FIG. 2d

FIG. 2e

Assembly Instructions (Continued)

3 Lift the Cone (D) onto the supplied support, making sure to align the Cone's flange holes with those on the Stand [FIG 3a] or Wall Bracket [FIG 3b].
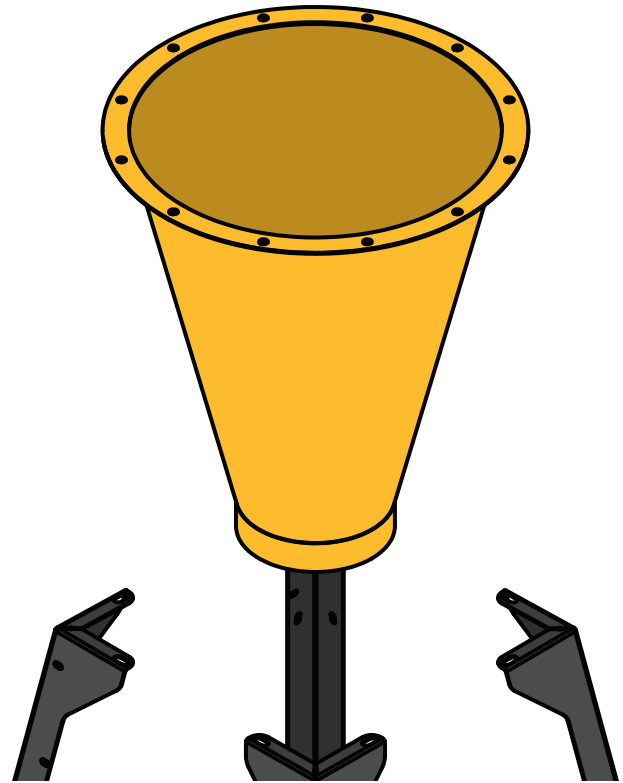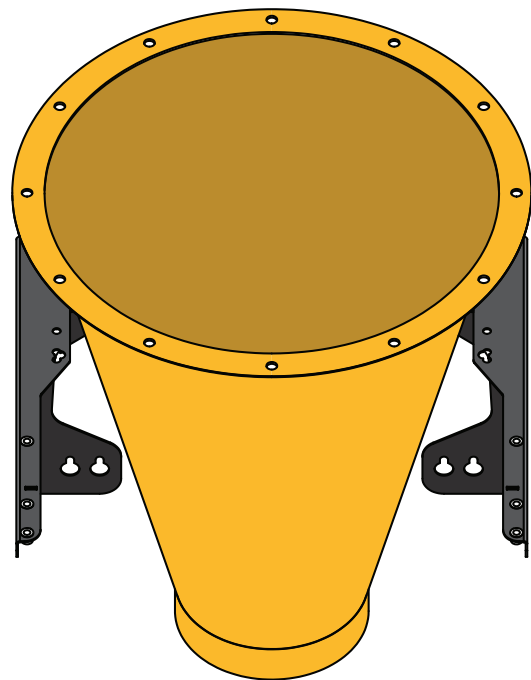

FIG. 3a

FIG. 3b

Assembly Instructions (Continued)

4 Once your cone is aligned with the supplied support, lift the Barrel (C) onto the Cone (D), making sure to align the corresponding flange holes. Secure both components to the support using twelve Flange Bolts (K2A) and twelve Whiz-Lock Nuts (K2B) [FIG 4].

Note: If you know the orientation of your fan housing's outlet, test the location of the plenum support brace, and leave the corresponding hole free. See step 10 for further clarification.
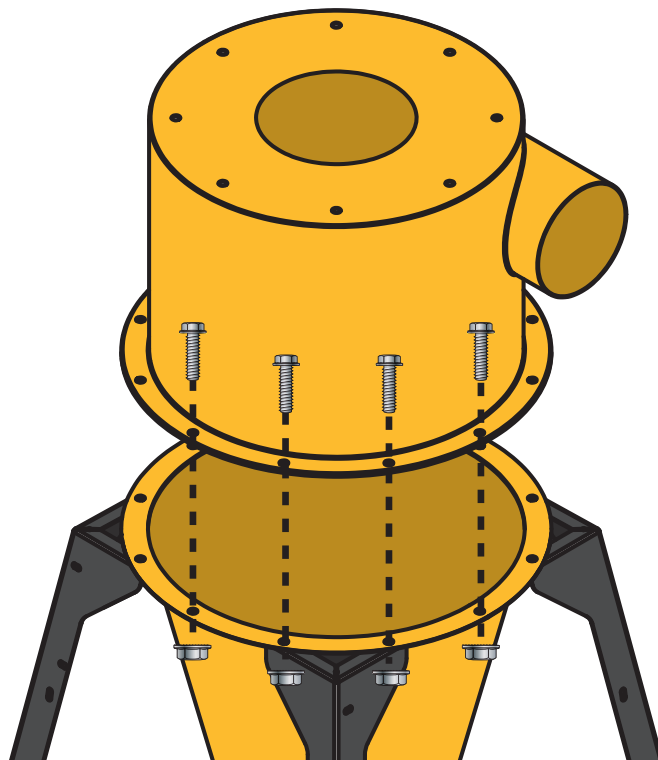
FIG. 4

5 Lift the Fan Housing (B) onto the Barrel (C), making sure it is oriented so that the molded "UP" text is visible. Align the housing's holes with the holes in the barrel and keep in mind the direction you want your outlet to face. [FIG 5].

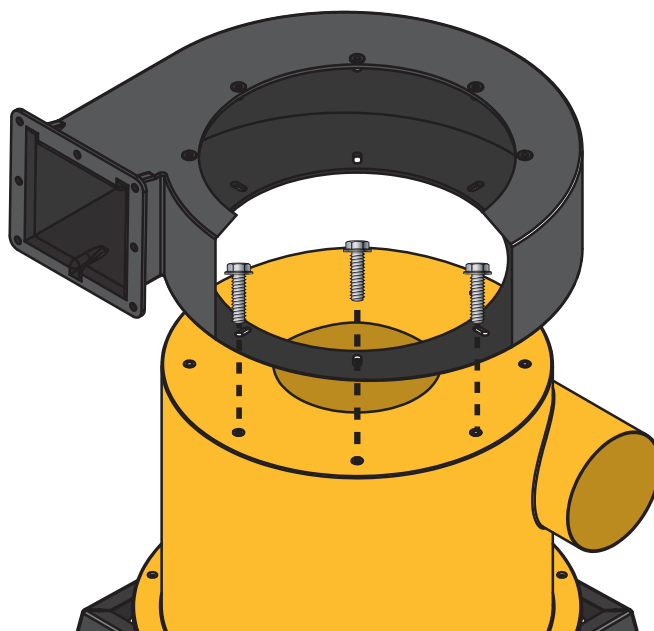Secure the Fan Housing onto the Barrel using eight Flange Bolts (K2A).

FIG. 5

Assembly Instructions (Continued)

⚠ **THE MOTOR ASSEMBLY IS VERY HEAVY AND CUMBERSOME; BE SURE TO HAVE ADEQUATE HELP WHEN LIFTING!**

6 Carefully lift Motor Assembly (A) to top of Fan Housing (B) and align the Fan Housing holes with the motor plate holes following the orientation shown in [FIG. 6a].

Secure the Motor Assembly (A) to the Fan Housing (B) using seven Flange Bolts (K2A). [FIG. 6b].

Note: The eighth hole on the Fan Housing (B) does not require a bolt because it is inaccessible [FIG. 6a].

Unwrap the braided filter grounding wire from the Motor cowling and let hang loose for future grounding steps [FIG. 7c]. Also, unclip the Remote from the Filter Grounding Wire [FIG. 6d].
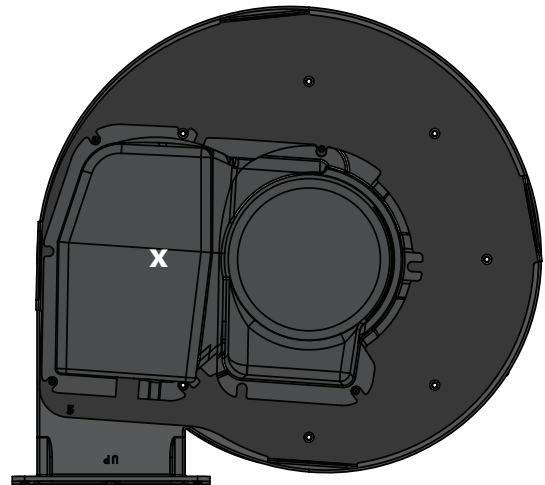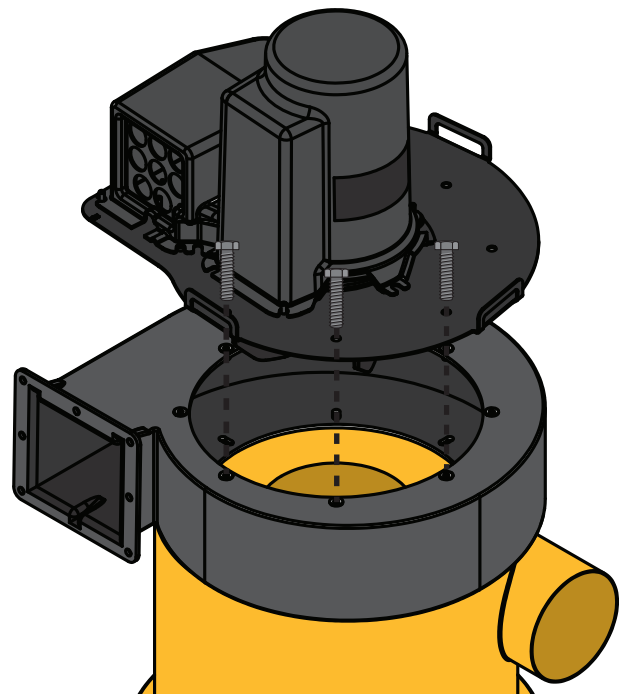

FIG. 6a

FIG. 6b

FIG. 6c

FIG. 6d

Assembly Instructions (Continued)

7 Secure Filter Plate (J2), gasket side up, to Filter Plenum Elbow (J1) with nine Bolts (J5C), nine Flat Washers (J5D), and nine Whiz-Lock Nuts (J5E). [FIG. 7a]

Note: Ensure holes on the Filter Plate line up with those on the Plenum Elbow. The hole pattern is asymmetrical [FIG. 7b]. The rectangular shaft on the Bolts (J5C) must push through the holes on the Filter Plate (J2).
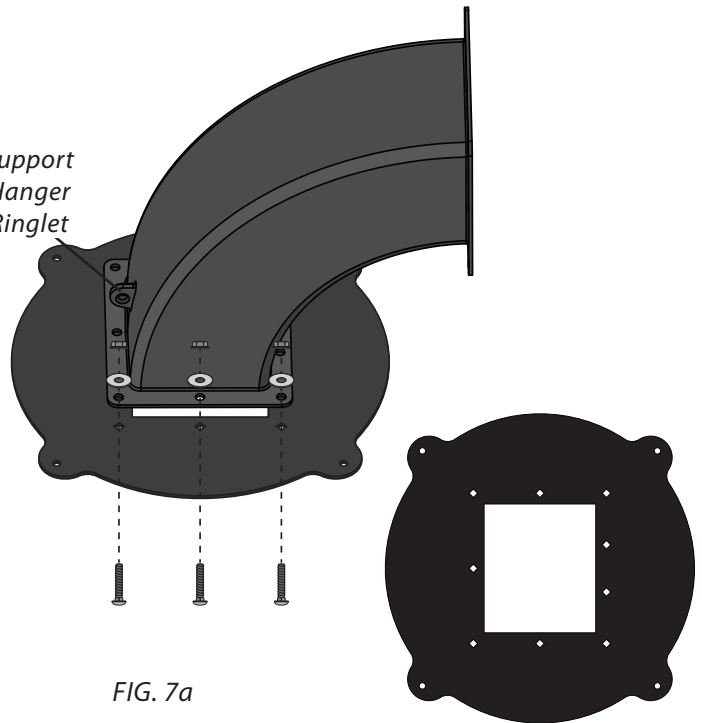
Support Hanger Ringlet

FIG. 7a

FIG. 7b

8 Secure the Filter Plenum Elbow (J1) to the outlet on the Fan Housing (B) using five Flange Bolts (K2A) and five Whiz-Lock Nuts (K2B) [FIG. 8a]. Leave lower outer corners empty for Step 10 [FIG. 8b].
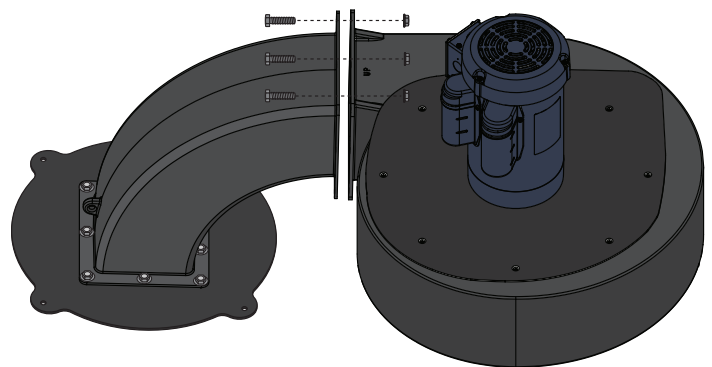
FIG. 8a

FIG. 8b

Assembly Instructions (Continued)

9 Attach the flat top of the Support Brace (L) to the lower corners of the Fan Housing (B) and Filter Plenum Elbow (J1). Secure with two Flange Bolt (K2A) and two Whiz-Lock Nuts (K2B). [FIG. 9]
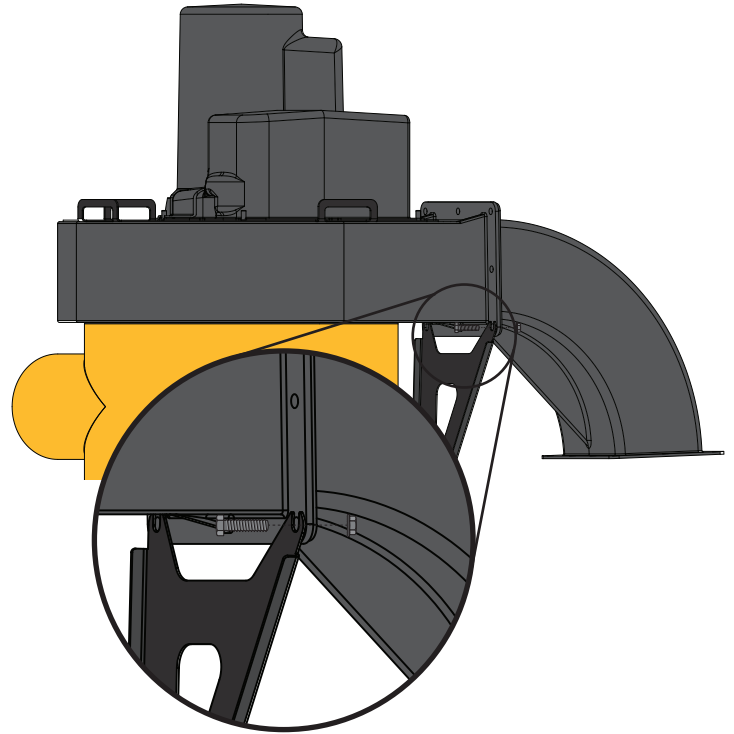
FIG. 9

10 Install other end of the Support Brace (L) to the flange of the Barrel (C) using the hardware installed in Step 4 [FIG. 10].

Note: The hardware removed will depend on your outlet's orientation.
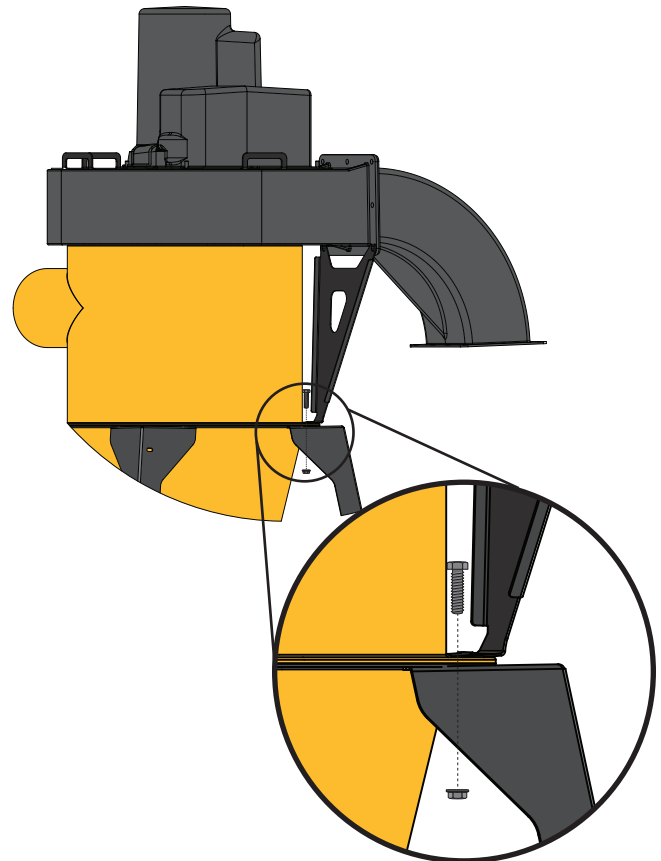
FIG. 10

Assembly Instructions (Continued)

11 Insert the Drop-In Silencer (J3) into one end of the Filter (I). This end will become the top of the Filter [FIG. 11].

FIG. 11

12 Install the Stacking Sound Filter (N) [FIG. 12] by referencing the included instruction sheet:

- **Stacking Sound Filter Sheet** #ZBI131816

Note: You will use the four J-Bolts (J5A) and four Thumb Nuts (J5B) to install the Stacking Sound Filter.
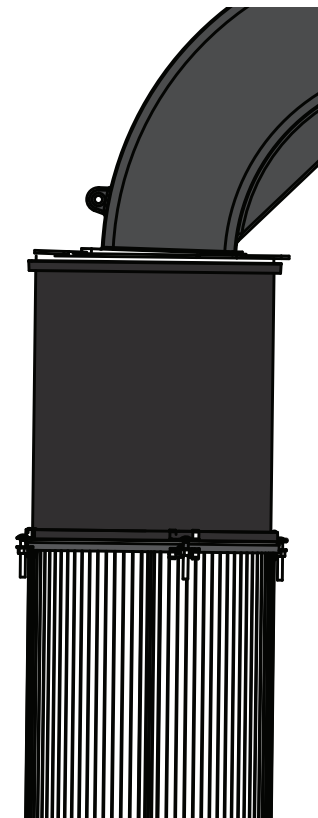
FIG. 12

Assembly Instructions (Continued)

13 Attach the Fine Dust Bin (J4) to the Filter (I) with four J-Bolts (J5A) and four Thumb Nuts (J5B) as shown in [FIG. 13].

FIG. 13

14 To ground the filter, attach the ring terminal on the braided ground wire from the Motor Assembly (A) to a J-bolt on the filter plate, under the Thumb Nut, then attach the alligator clip to the filter's cage [FIG. 14].

Note: If you need to extend the wire, you can use any 16 gauge copper stranded wire and connect with wire nuts

FIG. 14

Assembly Instructions (Continued)

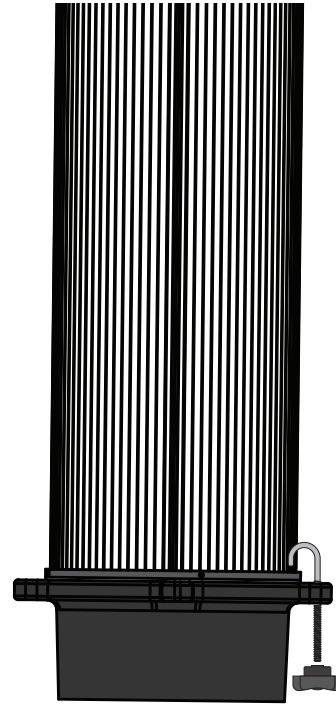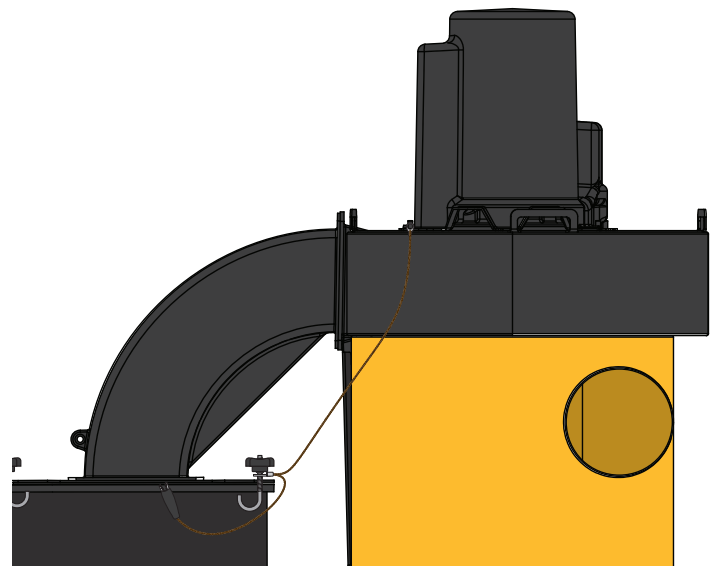**15** Attach Hose (F) to the Cone's (D) discharge, and secure it in place with the Clamp Band (E). [FIG. 15]

Note: The hose is a snug fit. Pull ends up little by little to work the hose onto the cyclone's discharge. Pliers can be used to grab the reinforcing wire and aid in pulling the hose over the opening.

Position the Drum (H) and Lid (G) under the Cone and repeat the process to atttach the opposite end of the Hose onto the Lid's collared inlet.

Unclamp the Lid and test to see if the Drum is easy to remove from underneath the Cone.

If there is insufficient clearance for removing the Drum, you may trim the Hose using a razor knife and diagonal cutter to cut through the clear lining and reinforcing wire.

Note: Be careful to only remove 0.5" at a time so as not to over trim.
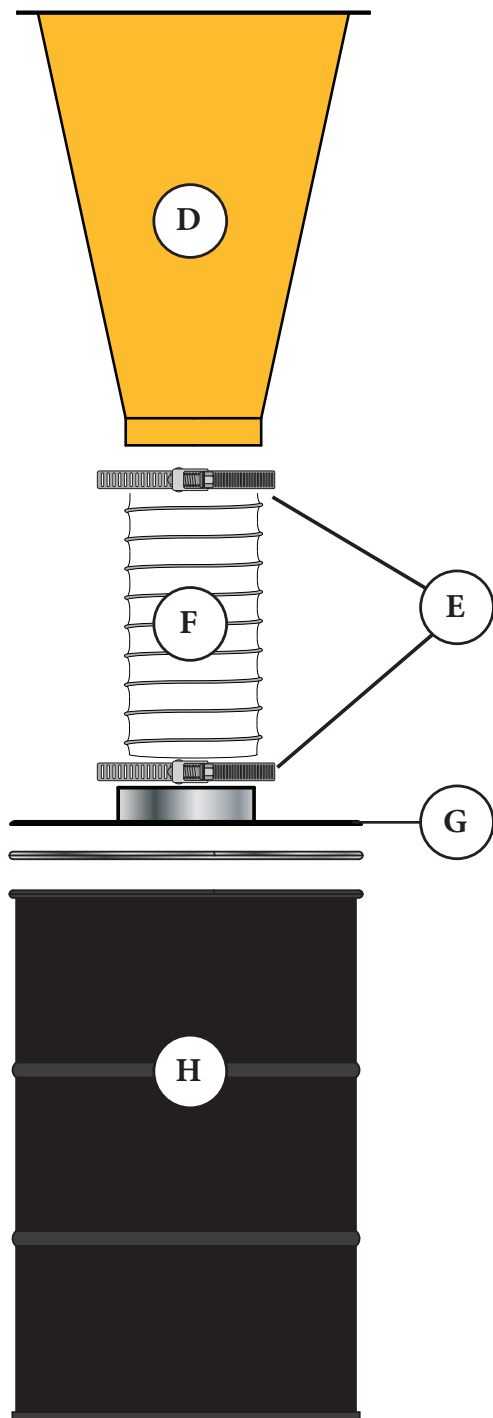
FIG. 15

Assembly Instructions (Continued)

16 Statically ground the Drum (H) by attaching the 14" Grounding Cable (K3); Drive the 3/8" Self-Tapping Screw through its eyelet and into the bottom of the Cone (D) just above the installed Flex Hose (F). Repeat using the second 3/8" Self-Tapping Screw on the Lid's Collared Inlet (G) [FIG. 16].

Note: If you need to extend the wire, you can use any 16 gauge copper stranded wire and connect with wire nuts
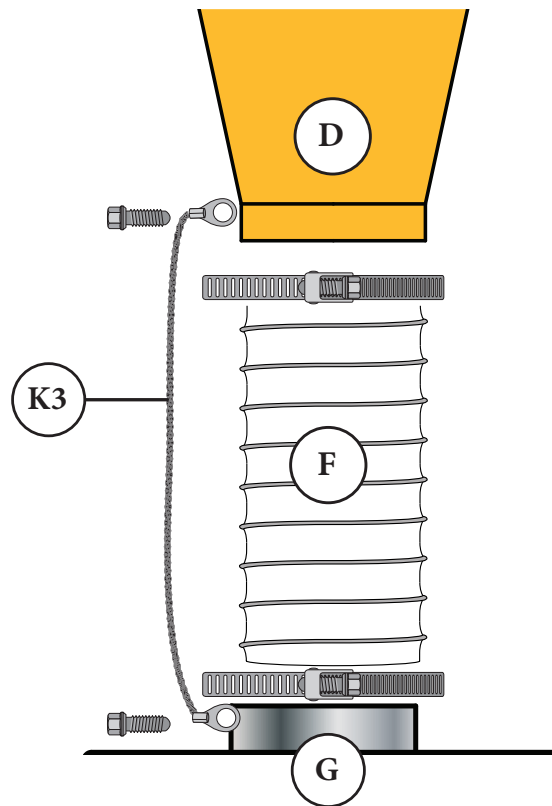
FIG. 16

⚠ **ENSURE THAT ALL ELECTRICAL POWER TO THE SYSTEM IS DISCONNECTED BEFORE PROCEEDING WITH FURTHER STEPS.**

17 Use the adhesive of your choice to temporarily secure the starter to the wall [FIG. 17].

To permanently secure the starter to the wall proceed to step 18, otherwise proceed to step 19.
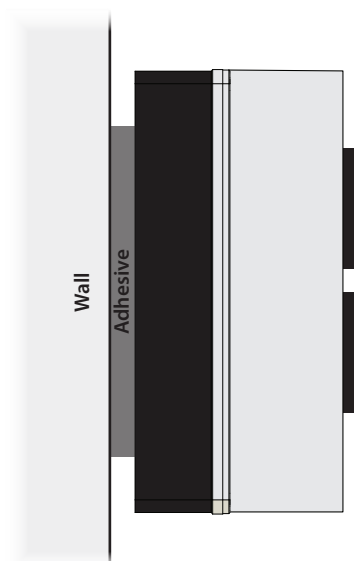
FIG. 17

Assembly Instructions (Continued)

18 To permanently secure the starter to the wall, take off the starter cover by removing the top and bottom screws and exposing the overload and contact connections [FIG 18a]. Set aside the screws.

    a. Place a mark through the four mounting holes [FIG 18b].

    b. Use appropriate fasteners for the wall type you are installing your system onto.

    c. Drill into the wall at the marked locations.

    d. Secure the starter to the wall.
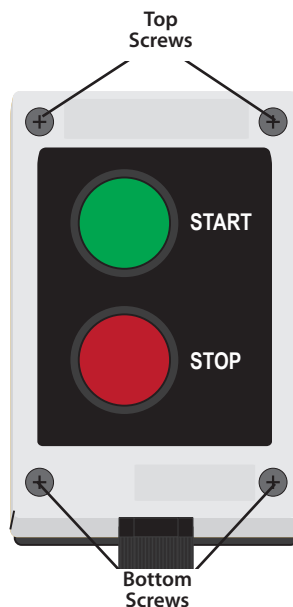
FIG. 18a
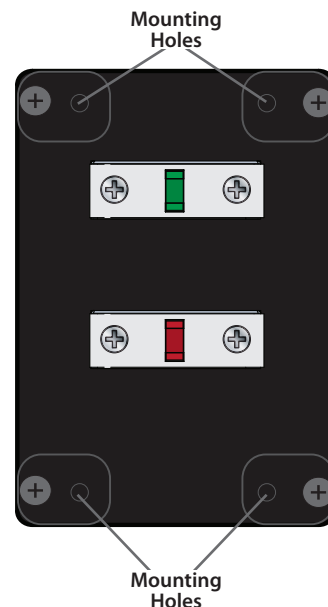
FIG. 18b

19 Reattach the cover with the screws set aside in Step 18 [FIG 19].
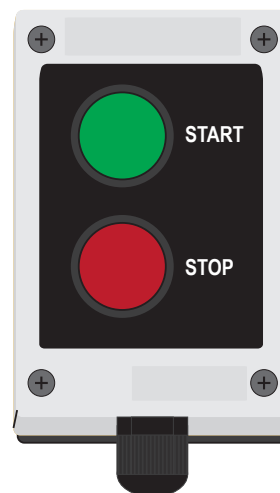
FIG. 19

20 To install the Dust Sentry (P) [FIG. 20] by referencing the included instruction sheet:

• **Dust Sentry Sheet** #ZBI000002A

FIG. 20

Maintenance

⚠ **UNPLUG YOUR UNIT BEFORE SERVICING OR CLEANING**

Cleaning the Filter

Proper filter cleaning should not be neglected as a dirty filter can significantly affect your dust collector's performance and the overall lifespan of your filter. The following steps should be done while the filter is still attached to your system:

1. **WEAR A DUST MASK AND EYE PROTECTION WHILE CLEANING THE FILTER.**

2. Turn off the dust collector and wait for the system's fan blower to come to a complete stop.

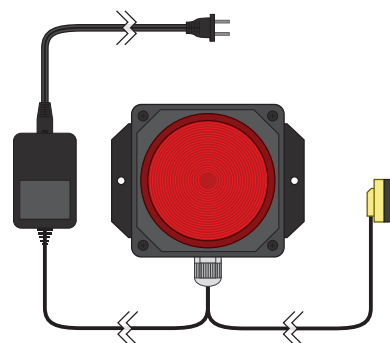3. Use a hand-held, compressed air nozzle with a pressure between 30 to 60 PSI to blast air along the filter's exterior pleating. Hold the air nozzle at a 20 degree angle and at least 6" away from the filter; Closer blasts may damage the filter material. Direct air out and away from anyone in the area.

4. Wait a few minutes for the dust to settle, then remove the fine dust bin at the bottom of the filter.

5. Dispose of dust carefully and then reconnect the dust bin.

Emptying the Drum

When first using the dust collector, check the drum regularly to get an idea of how often it needs to be emptied. If the drum becomes overfilled, the dust will be sucked into the intake barrel and into the filter.

How quickly the drum will fill up is based on the type of work being done at the time. For example: fine dust from a sander or table saw will slowly fill the drum while curly shavings from a planer or jointer will quickly fill the drum.

Lubricating the Motor

Per Baldor's specifications, their 2-pole motors (3,600 RPM) are to be lubricated every 5,500 hours. Refer to the Table below to determine if your motor's Lubrication Interval must be adjusted. For example, a system operating in a moderately corrosive area with an ambient temperature of 109° F (43° C) would qualify as the "Severe" service condition, and should instead be lubricated every 2,750 hours.

A right angled grease coupler will be needed for this operation.

1. Motors can be greased while stopped, at less than 176° F (80° C), or while running.

2. Clean the motor's grease fitting, or if equipped with slotted grease screws, clean the area around the grease hole. If the motor has a purge plug, remove it.

3. Apply grease gun to fitting (or grease hole). Add 0.3 ounces (8.4 grams) of Mobil Polyrex grease by weight, or 0.6 cu. in. (2 teaspoons) of Mobil Polyrex grease by volume.

4. Slowly apply the recommended amount of grease, taking one minute or so to apply. Too much grease or injecting grease too quickly can cause premature bearing failure.

5. Operate the motor for 20 minutes; Reinstall purge plug if previously removed.

Caution: Keep grease clean. Mixing dissimilar grease is not recommended.

LUBRICATION INTERVAL TABLE			
Severity of Service	Maximum Ambient Temperature	Atmospheric Contamination	Lubrication Interval Multiplier
Standard	104° F (40° C)	Clean; Little Corrosion	1.0
Severe	122° F (50° C)	Moderate Dirt; Corrosion	0.5
Extreme	> 122° F (50° C) *or Class H Insulation**	Severe Dirt; Abrasive Dust; Corrosion	0.1
Low Temperature	< -22° F (-30° C)**		1.0

* Special HIGH temperature grease is recommended
** Special LOW temperature grease is recommended

Troubleshooting

PROBLEM	CAUSE	SOLUTION
Motor Overheating/System Tripping (The motor's overload will trip if the motor is overheating)	Air leaks between the dust collector and dust bin	1. The lid of the dust drum must be in place, have a foam seal, and be well seated when operating the dust collector. 2. Make sure flex hose is not torn and the hose clamps are tight. 3. Check for holes or leaks in the dust barrel.
	Motor not properly wired	1. Check wire connections. 2. Check fan impeller rotation. 3. Check breaker box to make sure power supply is correct for motor.
Poor dust pick-up at Tools System Lost Suction	Ductwork Issues	1. Check length of duct runs, duct diameters, and hood design compared to ductwork design guidance. 2. 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. 3. Check for air leaks between collector and dust drum. 4. Close all unused blast gates at your woodworking machines. 5. Check for a restricted pipe, too small a hood port, or too small a branch line. 6. Be sure that your filter is clean.
Filter Clogging	Large Chips Clogging the Filter	1. Check for a leak in the dust bin, flex coupling, or lid. Check for split or torn flex coupling. 2. Make sure dust bin has not over filled. Dust bin should be emptied before the dust reaches top of container. 3. Interruption of air flow, such as vacuuming chips with a flex hose connection, will increase filter maintenance.
	Fine dust clogging the filter	1. 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. 2. Check for excessive elbows at cyclone inlet as explained in the mounting collector section. 3. 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.
System will not turn on	VFD may need to be reset	1. Remove the cowling and press the reset button. 2. If there is no room to remove the cowling, unplug your system for 1 minute.

? **If you continue to experience difficulty with your dust collector, call Oneida Air Systems' Customer Service Department at 1-866-387-8822 or email support@oneida-air.com.**

F.A.Q.

What dust can be collected?

Oneida Air Systems' dust collectors are designed and tested for wood and wood dust. They can and have been used effectively for various other dusts and chips, such as drywall dust, paper dust, agricultural dust, metal chips and other forms of debris. The customer is, however, cautioned that some common materials when cut, ground or processed by machinery may become very dangerous: highly toxic, flammable, or deflagrable and explosive. The user must ensure that the dust collection system is used in accordance with national, state, local, NFPA, OSHA and all other applicable codes.

Can this be used for wet applications as well?

No. This system is designed for use collecting dry materials only.

What is a static dissipative material?

This term refers to the range of conductivity that a material has. Static dissipative materials range from 106-1012 Ohms.

How often should I clean the dust collector's cartridge filter?

This can vary widely depending on how often your dust collector is used and what kind of dusts it's exposed to but you should typically clean it only once you've noticed a considerable drop in suction performance. In our experience this can be around once per year, but with heavy amounts of sanding it could be as often as once per month.

When should I replace this filter?

With regular maintenance, our cartridge filters can easily last up to 5 years. Your filter should only be replaced if thorough cleanings do not help to restore your suction performance.

How do I clean this filter?

Clean this filter using compressed air blown from the outside of the filter. For further instructions see the Maintenance Section.

How do I troubleshoot an air leak with my cyclone?

Even a small leak can significantly affect the overall separation performance of the cyclone. If you can't audibly pinpoint where the leak might be coming from, one of the simplest ways to check for air leaks is with a smoke test. For further instructions see the Maintenance Section.

Should the inlet reducer for my dust collector be crimped or straight?

The inlets on all of our dust collectors are sized to fit standard ductwork. If you need a reducer to connect to ductwork that's smaller than your collector's inlet, the end of the reducer that connects to the inlet will need to be crimped, so that it will fit inside the inlet..

Is this product compatible with Quick-Clamp Duct?

Yes but you will first need to install a Machine Adapter into the dust collector's inlet. These adapters are smaller on the raw end than traditional ducting so that they can slip into the ports on systems and tools i.e. a 5" Quick-Clamp Duct Machine Adapter will measure ~4.9" O.D. on the raw end.

F.A.Q. (Continued)

Where do I mount the included Dust Sentry?

The strobe can be mounted anywhere convenient that is within reach of the wiring.

Can I lengthen the Bin Level Sensor power cord?

The 8' power cord can be extended to any length using wire of the same gauge or higher.

Why does the bin level indicator flash when the bin is empty?

Because the Dust Sentry works via an adjustable infrared sensor, it can sometimes show false positives with an empty container because of the reflective surface at the bottom of the steel drum.

This issue will go away soon after the system is used; once the bottom of the drum has sawdust on it, the Dust Sentry should no longer give a false positive. It can also be resolved by painting/coloring the inside bottom of the drum so that it is no longer reflective enough to affect the sensor..

How do I adjust the bin level sensor?

Adjust the detection of the dust level of the infrared sensor by rotating the Level Set Screw. Turning it towards the plus sign (+) will lengthen the range of the sensor; turning it towards the minus sign (-) will shorten the sensor's range. DO NOT force the level set screw.

Can Dust Sentry Panel be mounted outside?

No, the Dust Sentry is for indoor use only.

Should I remove the internal drop-in foam silencer from my filter before installing the Stacking Sound Filter?

No, you do not need to remove the internal foam filter. This Drop-in Silencer can be used in conjunction with the Stacking Sound Filter.

Can Stacking Sound Filters be combined?

Yes; If you have room underneath the filter assembly (varies by model) then you can stack multiple sound filters, however, the resulting noise reduction per filter is not linear (additive) and is subject to diminishing returns. For example:

1 Sound Filter = 6-7 dBA total reduction

2 Sound Filters = ~9 dBA total reduction

3 Sound Filters = ~10 dBA total reduction

4+ Sound Filters = ~10 dBA total reduction

Is this remote IR or RF?

All of our current remote control products operate via Radio Frequency (RF).

What type of battery does the keyfob remote (item #AMR...) use?

The remote control keyfob uses an A23 type battery.

Recommended Accessories

18" x 39" Spunbond Filter
#FCS183900

- Specially designed for high airflow performance with minimal pressure drop.
- Durable polyester pleating material with external, reinforcing steel wire frame.
- Independently lab tested and verified filtration media.

18" x 36" HEPA Media Filter
#FCS183600HF

- Independently tested G.E. Certified H12 HEPA filter media.
- Wide-spaced pleated filters with teflon-like coating for quick and easy dust removal.
- Equipped with patented FlameGuard™ arrestor mesh for added safety.

35 or 55 Gallon Liner Bag Holder
#ABX000035 or #ABX000055

- Holds the liner bag open within your dust collector's waste container.
- Several finger holes for easy lifting and removal from the liner bag.
- 20.5" Tall for 35 Gallon, 32" Tall for 55 Gallon.

35-55 Gallon Heavy-Duty Plastic Liner Bag
#VAB251555

- Lines the inside of large, 35 to 55 gallon containers for fast and simple waste disposal.
- Heavy thickness protects against tearing from wood chips or other sharp debris.
- 22" x 22" x 55"

RF Remote Control Key Fob
#AMR000000

- Sends long range wireless signal via radio frequency.
- Works at long distances and even through walls!
- Compatible only with systems that include a magnetic motor starter control box.

Recommended Accessories (Continued)

Angle Bracket Leg Extension Kit
#STZ212301

- Industrial-grade cold-rolled steel components with powder coat finish
- Helpful to line up with an existing ductwork line.
- Included with the 55 gallon drum kits and required for use with the Universal Drum Dolly.

55 Gallon Steel Drum Kit - 9" Inlet
#SEK550901

- Reinforced steel construction with enamel painted exterior for long lasting durability
- Includes reinforced steel drum with painted exterior, lid with collared inlet, lever-locking lid clamp, flexible connection hose, and adjustable hose/band clamps.

Universal Drum Dolly
#SDD990000

- Fits nearly any cylindrical waste bin sold by Oneida Air Systems.
- Includes five 2" non-marking caster wheels (3 non-locking, 2 locking).
- Requires Leg Extension Kit (Item #STZ212301) if used with a stand mounted system.

Flex Hose 9" Diameter by 5' Long
#DHF090500 (also available in 1' and 10' lengths)

- Highly flexible hose made from abrasion resistant anti-static polyurethane.
- Reinforced with steel wire-helix for heavy-duty usage.
- Transparent hose makes it easy to spot and clear potential blockages.

Real-time Filter Efficiency Gauge Kit
#FXK000000

- Takes the guesswork out of knowing when to clean or replace your filter.
- Can be installed easily up to 8 feet away!
- Provides a real-time performance view on the static pressure behind your filter.

Warranty Information

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

Oneida Air Systems®, Inc. (OAS) warrants the warrants the Dust Gorilla Pro SMART Boost for a period of 2 years, to the original purchaser from the date of purchase, unless otherwise specified. Items not manufactured by Oneida Air Systems are limited to their own manufacturer's warranties. All electrical items such as magnetic starters, remotes, sensors, pumps, bin sensors, bag grippers, etc. and accessories are limited to 90 days. Oneida Air Systems warrants that the product will be free from defects in materials and workmanship.

This is Oneida Air Systems' sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. Oneida Air Systems does not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. This warranty does not apply to defects due directly or indirectly to misuse, negligence, accidents, abuse, repairs, alterations, improper wiring or lack of maintenance. In no event shall Oneida Air Systems' liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Oneida Air Systems shall be tried in the State of New York, County of Onondaga.

The buyer is cautioned to install and operate Dust Collectors in accordance with prescribed Federal, State, OSHA, NFPA, local codes and regulations. This equipment should be installed/wired by a licensed electrician following all applicable codes. Local codes can be significantly different from national codes. The customer assumes the responsibility for contacting their insurance underwriter with regard to specific application requirements of venting or if additional fire protection and safety equipment may be required. Oneida Air Systems shall in no event be liable for death, injuries to persons or property or for incidental, and contingent, special, or consequential damages arising from the use of our product.

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

⚠ ONEIDA AIR SYSTEMS SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY OR FOR INCIDENTAL, AND CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCT. ⚠

SAFETY WARNING - PLEASE READ

Before Purchasing or Installing a dust collection system the buyer is cautioned to do so in accordance with prescribed Federal, State, Local, OSHA, NFPA, and any other applicable codes or regulations relating to the type of dust(s) you are collecting.

SOME TYPES OF DUST UNDER CERTAIN CONDITIONS HAVE THE POTENTIAL TO BE EXPLOSIVE.

Oneida Air Systems is not responsible for how the dust collector is used or installed. Dusts with deflagration or explosion risks, such as wood dust, may require additional safety equipment including but not limited to; venting, spark detection, suppression systems, back draft dampers or may require installation in an outside location or in a protected area away from personnel. The customer assumes the responsibility for contacting their insurance underwriter with regard to specific engineering controls or application requirements. (We suggest you reference NFPA 664, 654 and 68 codes for more information) Oneida Air Dust Collection Systems may not be suitable for some applications and are not designed to be used in explosive atmospheres. Oneida Air Systems equipment should only be installed and wired by a licensed electrician following all applicable local and national electrical codes.

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are: Lead from lead-based paints; Crystalline silica from bricks, cement and other masonry products; Arsenic and chromium from chemically-treated lumber; etc.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. Oneida Air Systems recommends using additional approved safety equipment such as an approved OSHA and NIOSH dust mask or respirator.

Oneida Air Systems makes every effort to accurately represent our products, specifications and prices; however Oneida Air Systems reserves the right to make changes to products and prices at any time. As a manufacturer, Oneida Air Systems reserves the right to change product designs and specifications at any time.

Notes

Oneida®
Air Systems

The **Industry Leader in Dust Collection**

Thank you for your business!

Regardless of where you purchased your system, if you have any questions or issues with missing / damaged parts, please call Oneida Air Systems first to let us help resolve your problem. We fully stand behind the quality of our products and place the utmost value on customer satisfaction.

We want to do everything possible to make your purchase and experience with Oneida Air Systems a good one!

Customer Service Dept.
1-866-387-8822 • support@oneida-air.com