

# Fume Dog User Manual



# FUMEDOG





# FUMEDOG

Fume Dog  
7 Superior Drive  
Rome, GA 30161

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## SECTION 1 – SAFETY PRECAUTIONS AND DISCLAIMERS

### 1.1 WARNINGS



**HIGH VOLTAGE:** The voltage of the Fume Dogs is dangerous once connected to a power supply. Incorrect installation may cause damage to the equipment, serious injury, or death. Consequently, it is essential to comply with instructions in this manual, local and national safety



**MOVING PARTS:** The Fume Dog Units have moving parts and if not properly used may crush, cut or injure the user. Take extra caution when the unit is running and avoid removing the cover plates to the motor/blower side when power is connected.



**DUST HAZARDS:** The Fume Dog Units collect smoke, fumes, and hazardous dusts produced in applications such as welding, cutting, grinding, etc. Breathing these contaminants is hazardous to user's health.

### 1.2 DISCLAIMERS

Fume Dogs are not designed, manufactured, or intended to be used in hazardous environments requiring fail-safe performance. Fume Dog warrants in no way that its products guarantee elimination of all fumes, dusts, or other hazardous contaminants. Fume Dog is not responsible for any injuries, damage, or liabilities caused by improper use of the equipment.

The Fume Dog is designed to accumulate smoke residue / particles and other by-products of the manufacturing process. The nature of these accumulations may be flammable. Operating the Fume Dog with these materials could result in a fire inside the unit. The Fume Dog is not recommended for use with highly combustible materials or explosive materials or particles.



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## SECTION 2 – SHIPPING, RECEIVING, AND INSPECTION

### 2.1 RECEIVING AND INSPECTION

*Congratulations on the purchase of your new Fume Dog!*

- 📦 Upon receipt of the Fume Dog Unit, remove the master packing list from the unit and reconcile it with the total shipment.
- 📦 Report any discrepancies to Fume Dog as soon as possible.
- 📦 The Fume Dog Units are shipped via freight and generally arrive on a box truck.
- 📦 Remove the packaging from the unit; then remove the unit from the pallet.
- 📦 Carefully inspect the unit and any other items shipped with the unit for any damage that may have been incurred during shipping. If damage is found, report it to the shipping company and Fume dog immediately.



### 2.2 BEFORE INSTALLATION BEGINS

- 📦 Adequate electrical and compressed air must also be connected to the Fume Dog. These connections are defined in "Electrical Connections" and "Compressed Air Connections" sections of this manual.
- 📦 Note that compressed air connection is not permanently connected and only needs to be connected during the cleaning cycle (when the cleaning wand is being used).
- 📦 During installation, always be careful.



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## **SECTION 3 – SETUP / INSTALLATION**

The Fume Dog requires minor assembly.

- The fume arm needs to be attached to the Fume Dog Unit before use. The Fume arm should come pre-assembled as a standing arm configuration, ready to be mounted to Fume Dog Portable Unit.

### **3.1 GENERAL INSTALLATION GUIDELINES**

The Fume Dogs are shipped via freight and generally arrive on a pallet. The units are crated on a pallet. Use a forklift, driven by a qualified individual, to remove the crate / pallet from the truck. Fork extensions can aid in unloading the unit.

- Once the Fume Dog is inside the facility, ready to be uncrated, please proceed cautiously. Banding straps, plastic wrap and crating must be removed.
- Once all packaging is removed roll the Fume Dog off of the pallet and attach the fume arm to the top of the Fume Dog. (Refer to instructions below)





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## 3.2 TOOLS NEEDED FOR INSTALLATION

The Following tool lists are given as a general outline. Additional tools may be used or substituted based on availability. The required tool list is given as a bare minimum required to assembling a Fume Dog. Powered tools are recommended.

### Optional Tools:





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## 3.3 UNIT INSTALLATION

The Fume Dog can be installed for multiple functions: portable, wall mounted, down draft table, and ambient air.

### ***3.3.1 Portable Fume Dog Unit***

The Portable Fume Dog Unit will need minor assembly. Once the Unit has been removed from its plastic wrap, the fume arm needs to be mounted to the top of the unit.

Optional: Remove the Wall Mounting Bracket.







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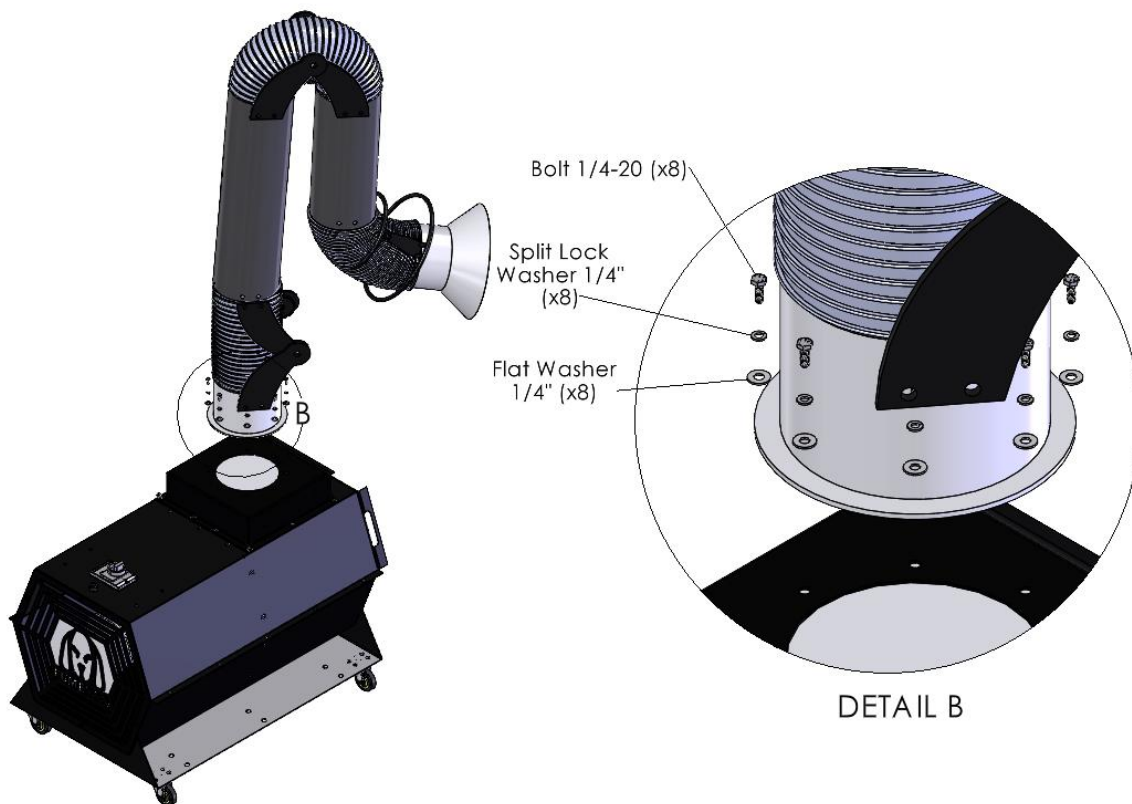
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### 3.3.2 Installing the Fume Arm on the Unit

The fume arm must be attached to the Fume Dog before use.

- To install fume arm, align the fume arm with the opening hole and the eight mounting holes on top of the unit. Using 1/4-20 bolts provided, mount the fume arm to the Fume Dog Unit. Note that the arm can rotate to provide clearance/access when fastening the bolts.





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## 3.4 FUME DOG DIFFERENT CONFIGURATIONS

### ***3.4.1 Wall Mounted Fume Dog Unit***

The Fume Dog Unit is shipped with the Wall Mounting Bracket attached to the unit. For using the Fume Dog Unit in Wall Mounted Position, Fume Arm needs to be converted from the Standing Position to Hanging Position.

To mount the Fume Dog onto your wall:

- 1) Remove the Wall Mounting Bracket from the Fume Dog by removing six(6) bolts under the unit. Take note or pictures on how the Fume Dog unit mounts to the Wall Mounting Bracket.



- 2) Bolt the Wall Mounting Bracket onto your wall. Eight mounting holes are provided for mounting the bracket to the wall.





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- 3) Remove the fume arm from the unit and convert the fume arm from standing arm configuration to hanging configuration. (refer to the instructions on Appendix C)
- 4) Then turn the Fume Dog upside down and lift the unit using a forklift.
- 5) Mount it back to the Wall Mounting Bracket by bolting the Unit into place.



- 6) Mount the fume arm to the unit.
- 7) Optional: Remove casters from the unit for more pleasing look





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## SECTION 4 – GENERAL INFORMATION / SPECIFICATIONS

### 4.1 FUME DOG DESCRIPTIONS



The Fume Dog consists of:

-  Fume Dog Housing
-  Fume Arm 8"
-  Motor / Blower System
-  Metal mesh filter
-  One Cartridge Filter
-  Cleaning Wand

Fume Dog is a highly versatile unit that can be used as a portable unit and can be easily converted into a wall-mount unit. The unit is equipped with an 8" Diameter fume arm and a wall mounting bracket. The fume arm is fully adjustable to provide the most ergonomic work area. Smoke residue collected by the fume arm goes through a filter mesh and diverter panel before being filtered by a

cartridge filter to provide extra protection and prolong filter life. Filter access doors are provided to easily access the metal mesh filter and the cartridge filter.









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## 4.2 FEATURES AND SPECIFICATIONS

### 4.2.1 General Features

-  (1) Nano Filter
-  14"x14"x2" metal mesh
-  Silencing: Built-in Acoustical Lining
-  Heavy Steel Construction and Powder-Coat Paint Finish
-  Manual Motor Protector
-  Cleaning Wand

### 4.2.2 Blower / Motor Specifications

-  1.5 HP, Direct Drive, Backward Incline Blower
-  Single Phase, 120 Volts, 60Hz
-  3450RPM

NEMA-NOM-EFF	HP	1.5									
	VOLTS	115/230									
	AMP	16/8									
	RPM	3450									
	FRAME	143TC			HZ		60		PH		1
	SER.F.	1.15	CODE	J	DES	L	CLASS	B			
		70	PF		85						
	RATING	40C AMB-CONT									
	CC		USABLE AT 208V						8.4		
	DE	6205			ODE		6203				
ENCL	TEFC	SN									



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## **4.2.3 Unit Weight**

The weight of the Fume Dog can vary depending on the application, and accessories purchased. Depending on the features the unit will weigh about 215-500 lbs.

## **4.3 COMPRESSED AIR CONNECTION SPECIFICATIONS**

In order for the pulse filter cleaning system to operate, the Fume Dog requires a compressed air connection to be made.

-  The compressed air inlet is located at the end of the cleaning wand.
-  This Fume Dog compressed air inlet supply is a 1/4" NPT nipple.
-  Use a regulator to adjust the pressure to 80 PSI.

### **4.3.1 Air Regulator**

The compressed air for the Fume Dog must be regulated at 70 to 90 PSI. A Regulator is used to allow the high-pressure air supply lines or tanks to be reduced to safe and usable pressure for cleaning the unit.

### **4.3.2 Air Filter**

The compressed air for the Fume Dog must be clean. Dirty air entering the system can cause damage to pneumatic components. The air should be filtered to remove all contaminants by the compressed air supply system prior to entering the Fume Dog.

### **4.3.3 Dry Air**

The air supply to the Fume Dog must be dry or drained. Water carried with air into the Fume Dog can wash away lubricating oil. This can mean excessive wear to pneumatic components and higher maintenance expenses. Without adequate lubrication pneumatic components can run sluggishly and inefficiently be prone to air leakage. Water in the supply line must be removed using a dryer or water drain trap.









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## 4.3.4 Cleaning Wand



-  This Cleaning Wand is used to clean the filter.
-  To clean the filter, attach compressed air to the end of the cleaning wand and move the wand in and out of the filter
-  The recommended pressure is 70-90 psi.
-  The wand only needs to be used for approximately 30-45 seconds
-  When cleaning the filter with the cleaning wand the filter does not need to be removed.
-  After cleaning, it is recommended to clean out the dust tray within the unit.



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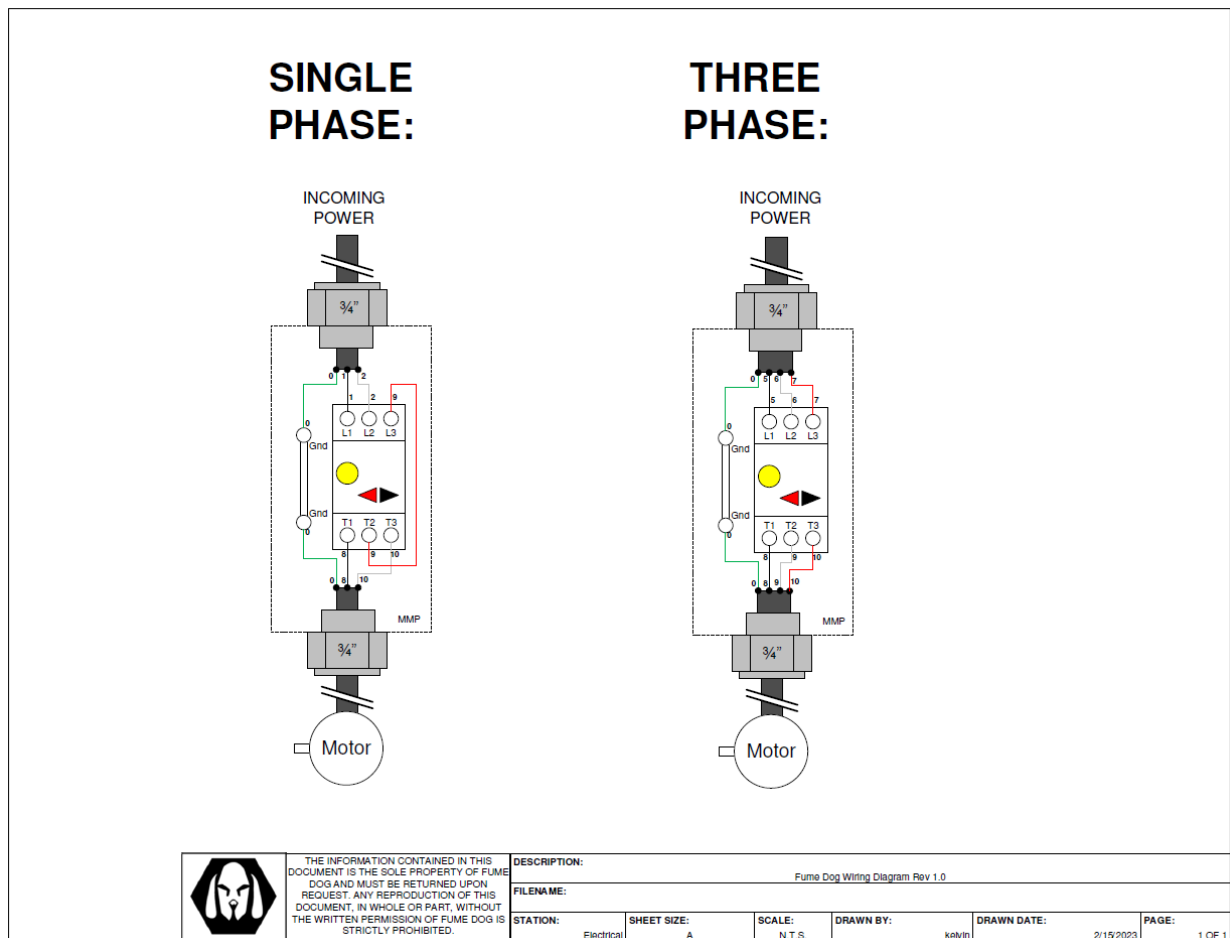
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## 4.4 ELECTRICAL SPECIFICATIONS

Fume Dog Units are equipped with a simple Manual Motor Protector to turn the unit ON and OFF.

Fume Dog Electrical Information							
120V Single Phase, Single Motor							
Motor Size (HP)	Nameplate FLA (A)	Motor FLC (A)	Disconnect Size (A)	Incoming Power Wire (Ga)	Incoming Power Cable (SO)	Overload Setting (A)	Recommended Breaker (A)
1.5	16	20	25	12	10	20.0	30

### 4.4.1 Wiring Diagram










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## Manual Motor Protector Switch



-  This switch controls the operation of the motor / blower.
-  When the switch is in the "0" or "OFF" position, the main power to the motor is disconnected and the motor turns off.
-  When in the "1" or "ON" position, the motor starts running.



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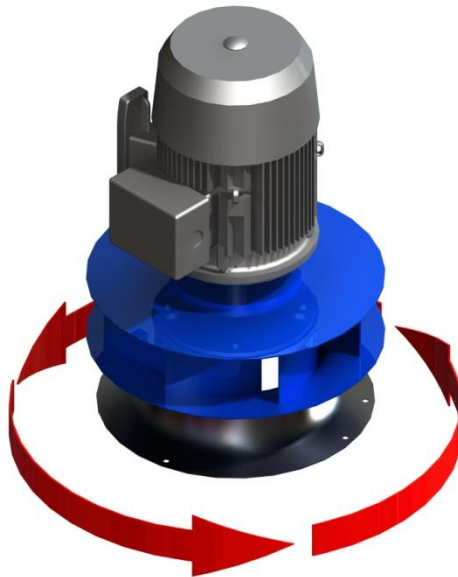
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## SECTION 5 – START/STOP PROCEDURES

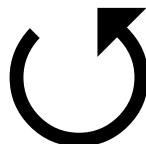
### 5.1 INITIAL CHECK

#### **5.1.1 Blower Rotation**

If blower rotation is incorrect, the unit will suffer a significant performance loss as well as an increase in noise level. Make sure the blower is rotating properly. To check blower rotation, have a colleague start the unit, count to '4', and then stop unit. As the fan slows, watch the rotation. When power is properly connected, the blower will rotate **counter-clockwise** when viewed from the exhaust of the Fume Dog. ***Make sure to check rotation from the exhaust (top) side.*** To change the blower rotation direction, simply swap any (2) of the incoming power leads.



***PLEASE NOTE: IT IS VERY IMPORTANT TO VIEW THE ROTATION  
FROM THE EXHAUST OF THE FUME DOG!***







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## 5.2 STARTUP PROCEDURES

-  The unit can then be turning the rotary switch clockwise
-  The blower will start immediately.

## 5.3 SHUTDOWN PROCEDURES

To shut down the unit, simply turn the rotary switch counterclockwise



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## **SECTION 6 – MAINTENANCE AND TROUBLESHOOTING**

### **6.1 CARTRIDGE FILTER MAINTENANCE**

#### ***6.1.1 Filter Features***

-  Filter Dimensions: 13.84" OD x 18" H
-  Blend Cellulose/Polyester with Nanofiber
-  Pleat Construction
-  Flame Retardant
-  (1) Filters for a total area of 145 sq. ft.

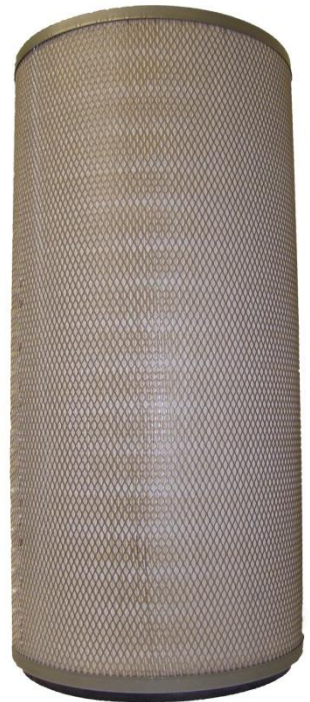
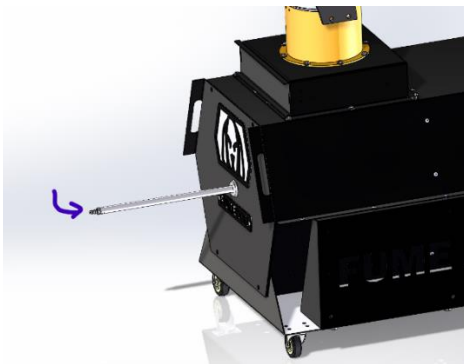
#### ***6.1.2 Filter Maintenance***

Filters are of excellent construction and of the best quality available. The filters are preconditioned with a unique process which has proven to be effective over time with long filter life and excellent cleaning characteristics. The cellulose media is even able to withstand and recover from water immersion due to the filter's high resin content and mechanical resilience.

The Fume Dog is equipped with the Fume Dog Cleaning Wand. There are two cleaning modes: General Cleaning and Deep Cleaning. General Cleaning is recommended to be done weekly. Deep Cleaning is recommended to be done monthly.

#### **General Cleaning**

1. The General Cleaning can be done by simply attaching compressed air to the quick connect port at the end of the wand.



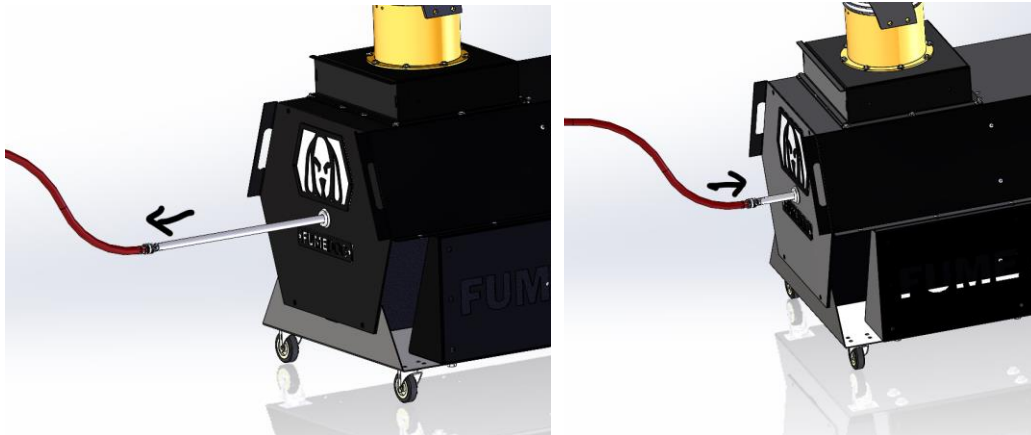


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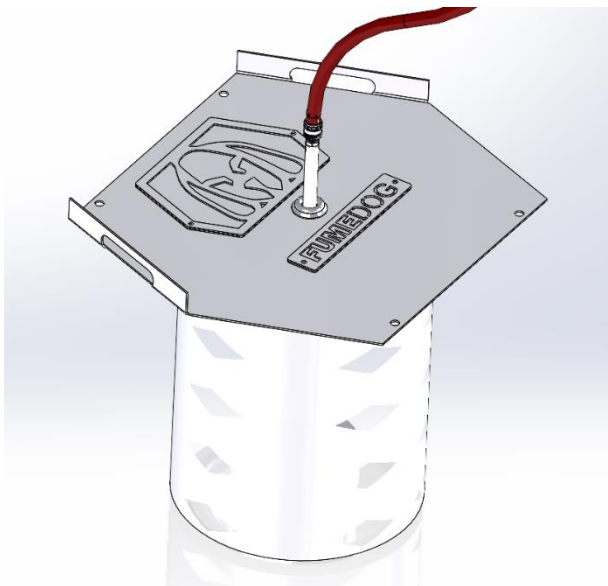
2. Once connected, move the wand in and out. This will knock dust off the surface of the filter.



For maximum filter life, it is recommended to do the General Cleaning Cycle once a week and empty the dust tray after.

## Deep Cleaning

1. The Deep Cleaning Cycle can be done by taking the filter out of the unit and setting it on the ground standing up. Cover the top of the filter with the cover panel. Then use the cleaning wand to shoot compressed air from the inside of the filter.



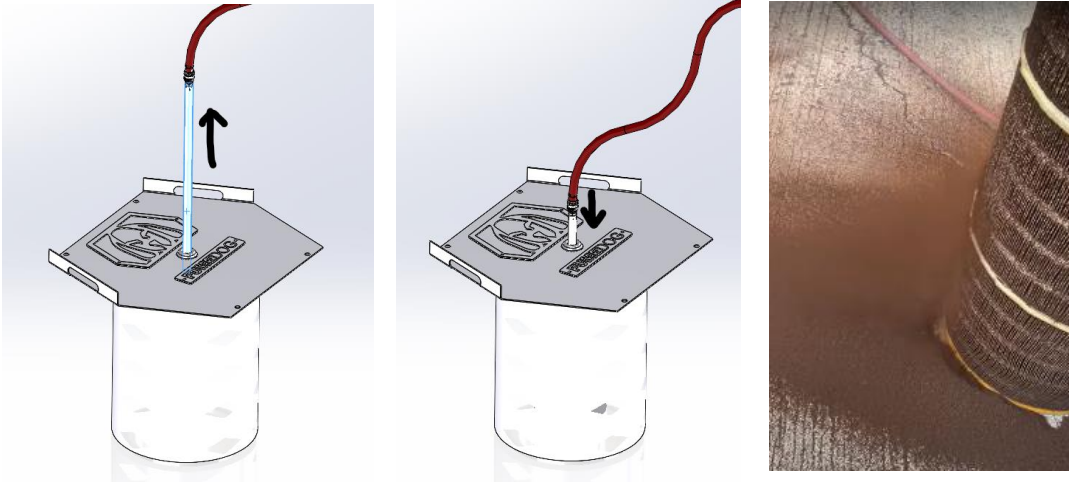


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2. Move the Wand up and down slowly until no dust falls off the filter.



It is recommended to do the Deep Cleaning Cycle once a month. See video on the Fume Dog website: <https://fumedog.com/pages/performance-video>

It is important to keep the filters clean and replaced at the proper interval for the proper operation of the Fume Dog. The point when the filters must be changed depends upon the specific application. Welding and grinding frequency, the type of particulate that is being removed, the type of filters being used, and the type of welding being performed all effect the filter replacement interval.

The easy access system of the Fume Dog helps with faster filter replacement and reduced maintenance.

Replacement filter cartridges and metal mesh of all types are available from your Fume Dog sales representative.

### ***6.1.3 How to Determine the Filter Change Interval***

Gauges, sensors, indicators are useful but often they tell the users to replace the filter when it is still performing well. Ultimately, we want to replace the filter only when the unit doesn't pull smoke anymore!



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## 6.1.4 How to replace filters

**NOTE:** *It is important to ensure that the filter gaskets seal correctly for proper operation of the Fume Dog. This will ensure that you do not get particulate past the filter compartment. The easy filter clamping system of the Fume Dog helps with faster filter replacement and maintenance.*

- 1) Turn the rotary switch to OFF position and disconnect main incoming power.
- 2) Disconnect the compressed air supply to the Fume Dog
- 3) Open the filter cover panel using the star knobs. This will reveal the cartridge filters.
- 4) Remove the cleaning wand
- 5) Once everything is removed, the filter can be accessed.
- 6) Slide a large plastic bag over the top of the filter cartridge, and slide the bag over the filter to the bottom of the filter cartridge.
- 7) Remove the filter in the bag and tie the end of the bag closed.
- 8) Some excess dust and debris may need to be removed while the filter has been removed from the unit. This can be done by sweeping the dust into the dust trays. The dust trays can then be serviced as normal. Alternatively, excess dust in the filter compartment can also be removed through the suction of a proper vacuum system.
- 9) Place the new filter onto the filter ring with the gasket seal end towards you. Make sure the filter is properly seated.
- 10) Close and secure the end panel.
- 11) Turn the rotary switch to start the motor. Some dust or debris may have fallen into the filter ducts; this dust would then be blown out when the unit begins to run.

## 6.2 METAL MESH FILTER

The Fume Dog Units are also equipped with Metal Mesh Filter to filter out the spark that may have been captured by the fume arm. The Metal Mesh Filter, together with the baffle wall design of the Fume Dog, eliminates sparks that are captured by the fume arm. Note that Fume Dog does not guarantee eliminating all sparks and is not meant to be used for heavy duty application.



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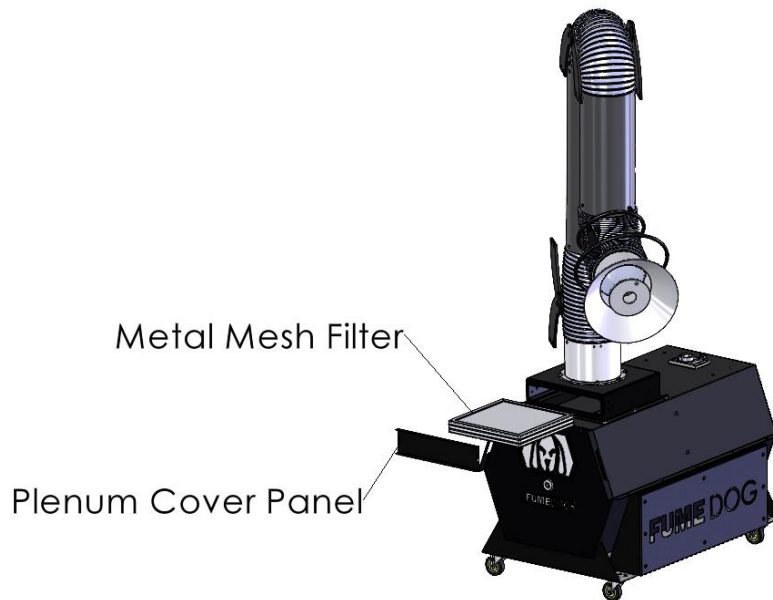
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## **6.2.1 Metal Mesh Filter Maintenance.**

Regular Maintenance also needs to be done to the metal mesh filter. The metal mesh filter is in the plenum box right under the fume arm. The Metal Mesh Filter needs to be cleaned every quarter(3 months). To clean the Metal Mesh Filter:

1. Open the plenum box door by opening the two latches holding the plenum box door.
2. Remove the Metal Mesh Filter.
3. Blow compressed air through the filter from both sides of the filter (front and back).
4. Put the metal mesh filter back into the unit and securely latch the door.



## **6.3 TROUBLESHOOTING**

All Fume Dog Units have been thoroughly tested before leaving the factory. However, problems may occur during shipment or after usage and Fumedog is happy to assist.



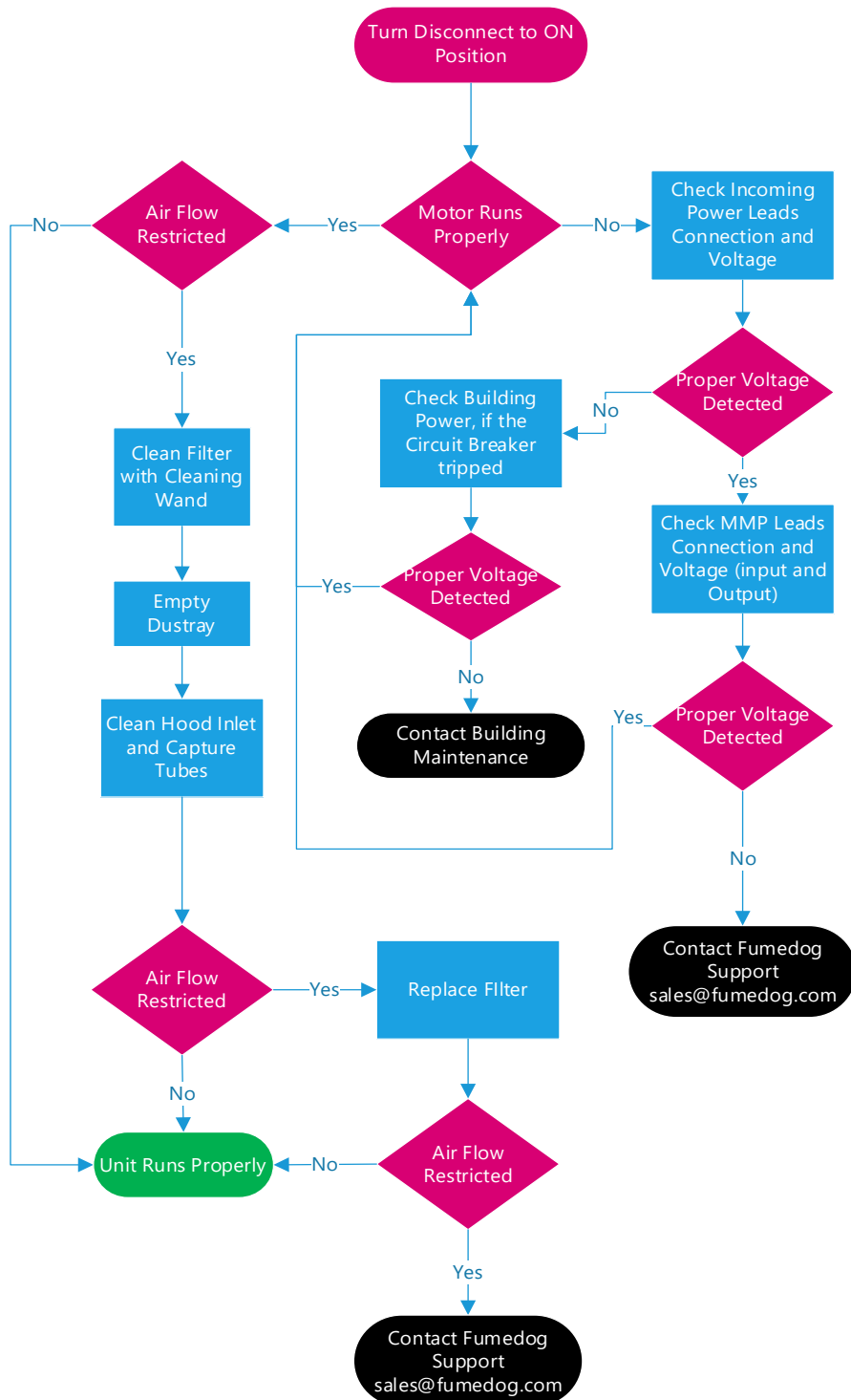


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## 6.2.1 Troubleshooting Flowchart



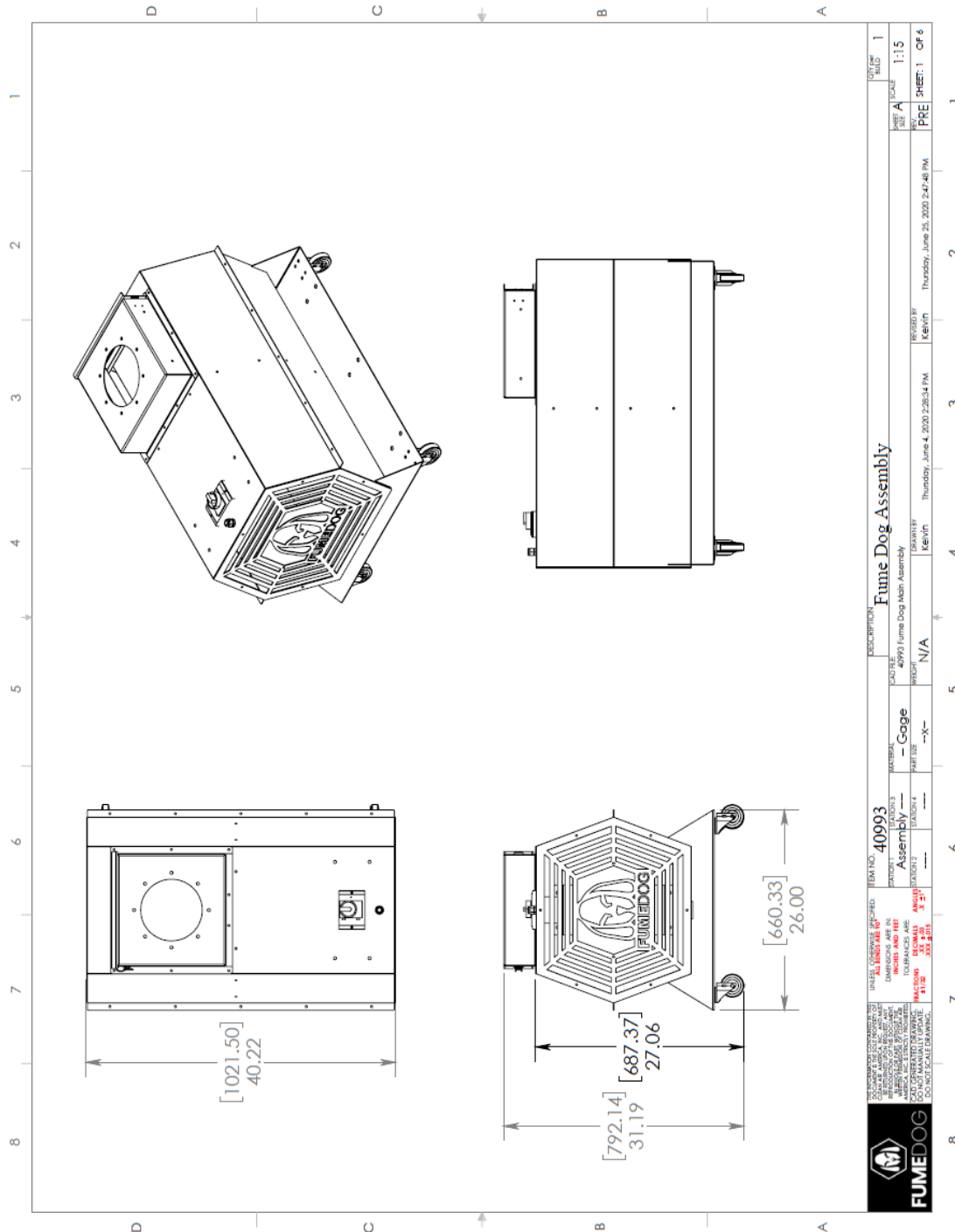


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## APPENDIX A: DIMENSIONAL DRAWINGS

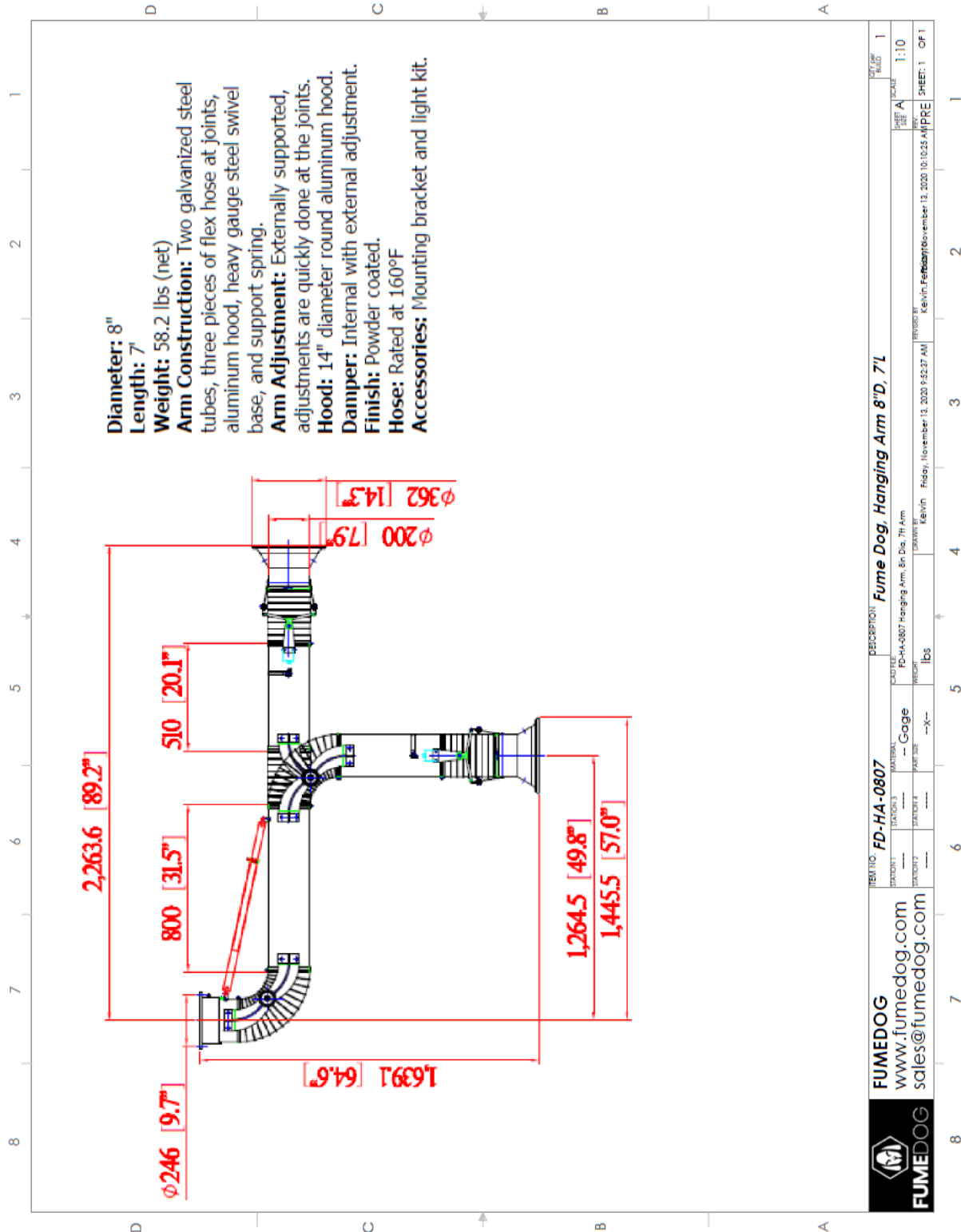




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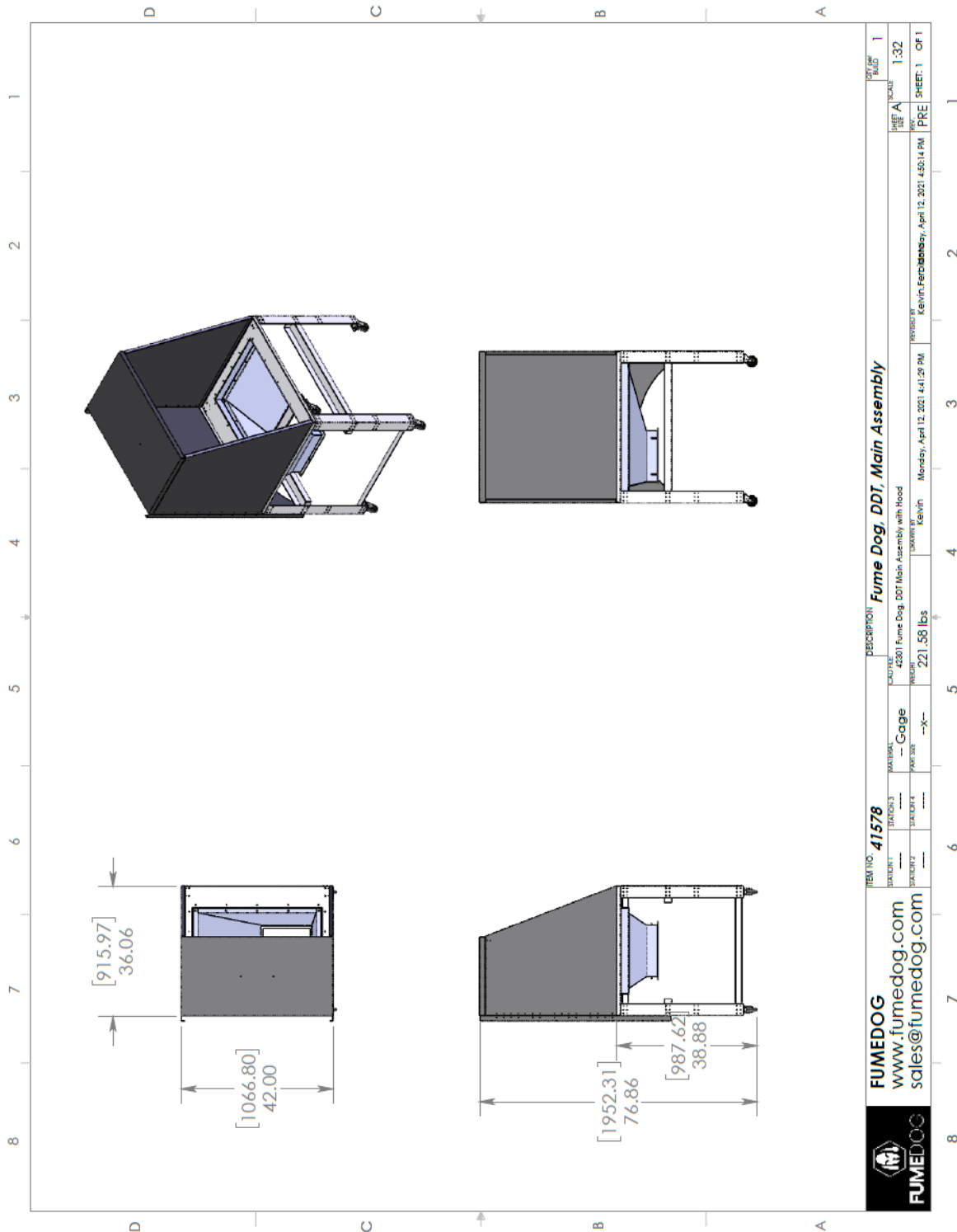




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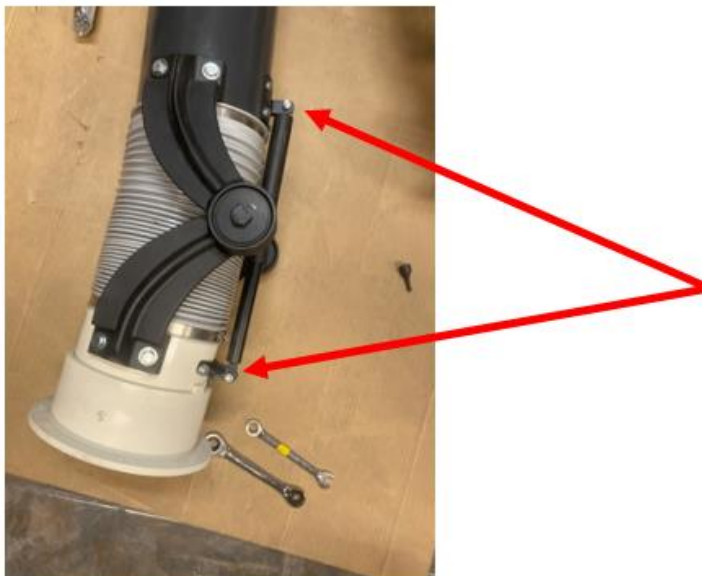
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## **APPENDIX C: CONVERT FUME ARM FROM STANDING TO HANGING**

1. First remove the fume arm from where it is mounted by unbolting the base. Put the fume arm on its side for easier access



2. Unbolt the telescoping screws and remove the spring cylinder





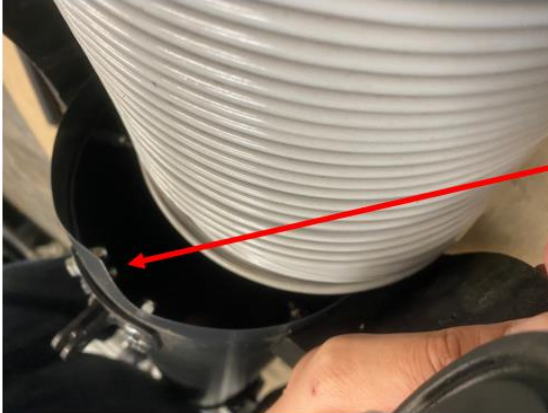


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3. Loosen the worm clamp and remove the bottom joint hose from the tube to be able to access the nuts under the bracket



4. Remove the bracket



5. Put the bolts back onto the tube where the bracket used to sit.





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6. Then reconnect the Bottom Joint Hose



7. Completely remove the middle joint tube from both ends.



8. Unbolt the ends of the friction plate







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9. After removing both frictions plate sets. Turn them to face the opposite direction than they were previously. Then Re-bolt.



Note: Make sure that the bottom and top friction plates are facing in opposing directions. Example below. Also note the bracket holes are on the same side as the telescoping bracket holder on the base.



10. Place the telescoping bracket that was previously removed onto the top of the tube





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11. Place the large telescoping spring into the brackets, and bolt in place



12. Reconnect the middle joint tube, and tighten into place



13. The fume arm is now in the hanging position



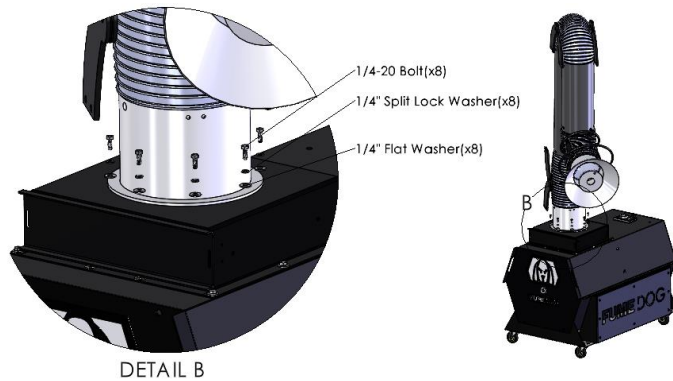
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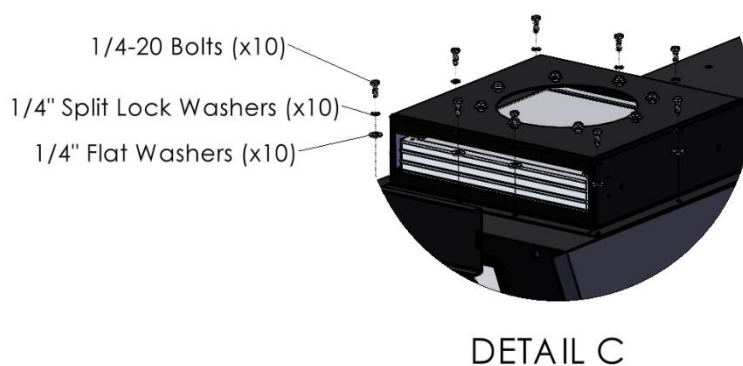
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## APPENDIX D: REMOVING PLENUM BOX

1. Remove The Fume Arm from the top of the unit by unbolting the 8 bolts.



2. Carefully remove the fume arm
3. Remove the Plenum Door by unlatching both the draw latches.
4. Unbolt ten 1/4-20 bolts



5. Remove the Plenum.





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## APPENDIX E: OPTIONAL ADD-ONS

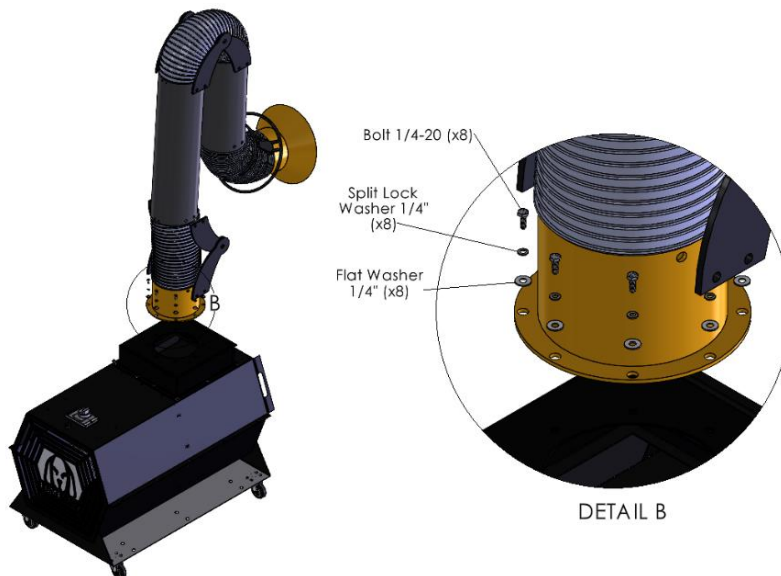
### *Down Draft Table Fume Dog Unit (Optional)*



The Down Draft Table Fume Dog Unit is shipped with the down draft table. The down draft table can be purchased separately and mount to the top of the Fumedog Unit. The Fumedog Unit provides the filtration system to the Down Draft Table Unit. It has a workload of 500lbs.

To convert the Fume Dog into a down draft table:

- 1) Remove the Fume Arm from the Fume Dog Unit by unbolting the eight bolts holding the Fume Arm.



- 2) Remove the Plenum Box from the top of the Fume Dog Unit. See Appendix D.
- 3) Remove the Down Draft Table from its packaging.



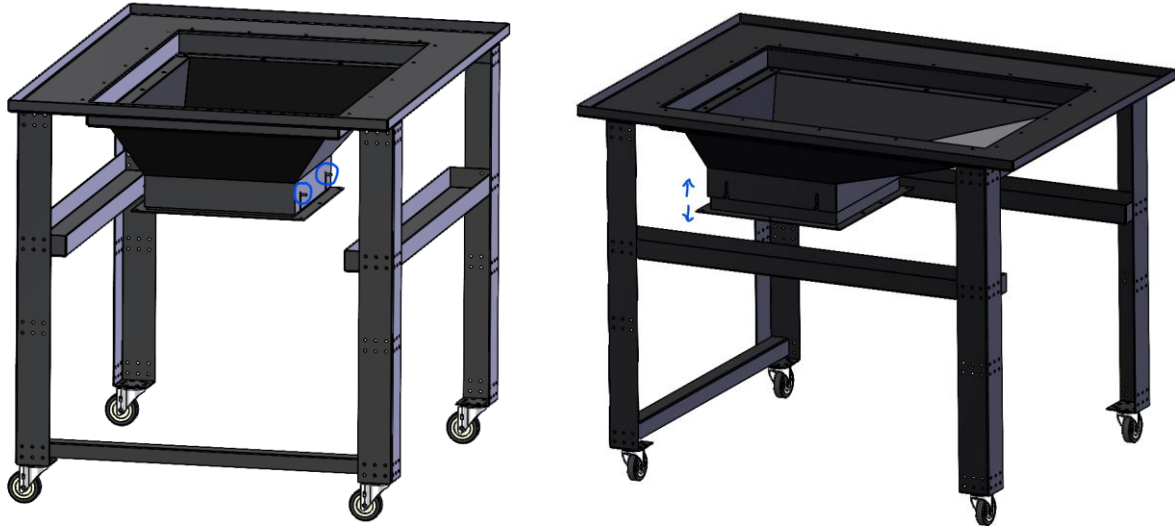


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- 4) Remove the four nuts holding the Down Draft Table Plenum. The Plenum should be able to slide freely up and down after the four nuts have been removed.



- 5) Slide the plenum all the way to the top and slide the Fume Dog Unit under the Down Draft Table. Position the DDT Plenum to the top of the Fume Dog Opening Hole.





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- 6) Slide the Down Draft Table Plenum down and line up the bolt ten  $\frac{1}{4}$ -20 bolts and washers.



- 7) Bolt into place



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## ***Fume Dog Platen Down Draft Table Unit (Optional)***

The Fume Dog Platen Down Draft Table can be purchased separately. Similar to the regular Fume Dog Down Draft Table, the Platen Down Draft Table mounts to the top of the Fumedog Unit. It is equipped with the Platen Table to mount the standardized Platen Tool. The Fume Dog Platen Unit has a higher workload of 800lbs. To convert the Fume Dog into the Platen Unit:



- 1) Remove the Fume Arm from the Fume Dog Unit by unbolting the eight bolts holding the Fume Arm.
- 2) Remove the Plenum Box from the top of the Fume Dog Unit. See Appendix D.
- 3) Remove the Platen Table from its packaging.
- 4) Remove the four nuts holding the Platen Table Plenum. The Plenum should be able to slide freely up and down after the four nuts have been removed.
- 5) Slide the plenum all the way to the top and slide the Fume Dog Unit under the Platen Table. Position the Platen Plenum to the top of the Fume Dog Opening Hole.
- 6) Slide the Platen Table Plenum down and line up the bolt ten ¼-20 bolts and washers.
- 7) Bolt into place.