

# **OWNER'S MANUAL**

Installation, Operation & Maintenance

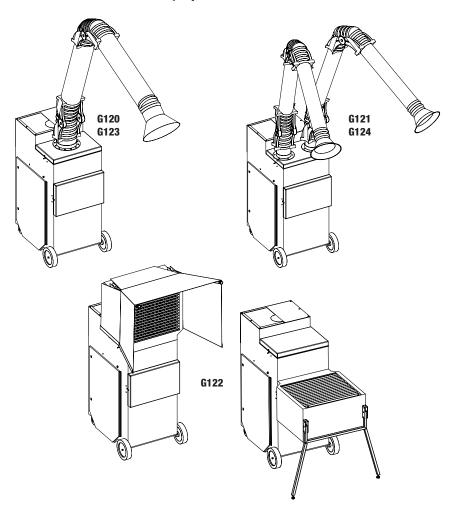


MODELS G120 G121 G122 G123 G124



# **OWNER'S MANUAL**

# Installation, Operation & Maintenance



Manufactured by:

RoboVent 37900 Mound Road Sterling Heights, MI 48310 USA (855) 558.VENT www.ventboss.com

# **CONGRATULATIONS!**

Dear Customer.

Thank you for purchasing a VentBoss product. This manual will help you use the many features available to customize the unit to your specific welding needs.

At VentBoss we are committed to making your facility a safe and healthy environment for your workers. Please take time to read this manual thoroughly before installing and operating the unit.

When your VentBoss needs scheduled maintenance, keep in mind that VentBoss has specially trained staff in servicing our equipment. If you would like to schedule service, or if you have a question or concern regarding your VentBoss product, please contact us at:

 $\textbf{(855) 558.VENT} \ or \ \textbf{customer.service@ventboss.com}.$ 



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Failure to follow all instructions may result in electric shock, bodily injury and/or destruction of the unit

Use of controls, adjustments, or performance of procedures other than those specified herein, may result in electrical shock.

#### IMPORTANT SAFETY INSTRUCTIONS

- 1. Read all instructions thoroughly.
- 2. Heed all warnings.
- Do not block intake or exhaust vents. Keep the exhaust vent free from debris and materials that could restrict airflow. Prolonged restriction could damage the motor and electrical components. Any blockage of the air flow will decrease efficiency of this unit.
- Refer all service matters to qualified service personnel. Servicing is required when the unit is damaged in any way including the control panel, supply wiring or in the case of excessive filter loading.





- Risk of serious injury or death! Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a screwdriver or test instrument) can accidentally touch the blower wheel.
- Disconnect power before working on the motor or blower wheel. The motor or blower wheel should be disassembled only by a factory authorized technician.

# FEATURES OF THE G120, G121, G122, G123 & G124



FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4

- Vertical Filter Design (Standard): Vertically aligned filters allow the dust to shed off the filter and fall directly down into the containment system. The unique vertical design increases filter life by 30% to 40% over traditional horizontal filter placement.
- 2. Manual Pulse Cleaning System: The VentBoss Portable comes equipped with a Manual Filter Cleaning System utilizing a pre-calculated pulse of high-pressure air into the core of the cartridge filters. This reverse-jet cleaning can add months to your filter life. Figure 1.
- 3. Easy Access "Easy Load" Filter System: For your convenience the VentBoss Series 100 Portable is designed with a top load filter system, which allows the filter to be removed in seconds. Figure 2.
- 4. Locking Wheels: The VentBoss Series 100 Portable comes standard with two stage locking caster wheels which lock the unit in all four directions. Figure 3.
- 5. Heavy Duty Construction: Unlike most portables, the VentBoss Series 100 Portable is made from heavy 12 and 16 ga steel. Seams are robotically welded to assure there are no leaks or cracks that could contaminate the facility air system.
- 6. SnapLock System: The SnapLock Feature of the VentBoss Series 100 Portable allows you to change from a Fume Arm Collector to a Backdraft Collector and then to a Downdraft Table in matter of seconds (optional equipment required). Unique in its operation, the SnapLock adds speed and versatility that no other portable has. Figure 4.
- 7. Built-In Acoustical Sound Plenum: High Density Foam Barriers and Built-In Acoustical Bass Traps have been engineered into the VentBoss Series 100 Portable design to make it one of the quietest portables in today's market. The VentBoss Series 100 Portable's quiet 67 B sound rating will not add to your shop's ambient noise level.

# FEATURES OF THE G120, G121, G122, G123 & G124 (continued)



FIGURE 5



FIGURE 6



FIGURE 7

- 8. G120 8" Fume Arm with Light Configuration:
  The G120 is one of industries only single cartridge portables that comes equipped with an 8" fume arm. The arms smooth travel and sturdy positioning make it easy to work in a 270 degree, 16 foot diameter area giving the VentBoss G120 the widest coverage of any portable. The LED light in the hood makes it easy to see what you are working on (Figure 7).
- Durable Powdercoat Finish: For long lasting durability the VentBoss Series 100 Portable is fully powder coated with an industrial grade textured finish.
- Dust Collection Tray: The Dust tray is designed to capture and store particulate pulsed off of the filter cartridge for easy disposal.. Figure 5.
- 11. High Performance blower: The aluminum Acoustafoil blower is the heart of the VentBoss Series 100 Portable. This High Performance Blower is engineered for High Output air volume with 4.5" of maximum static pressure. Figure 6.
- 12. Premium High Grade A13 filter: A premium high grade A15 filter comes standard with each VentBoss Series 100 Portable which contributes to its high efficient filtration. This durable filter can be back- pulsed countless times and still give endless hours of filtration.

# SECTION 300 RECEIVING & INSPECTION

## Receiving

VentBoss equipment is typically shipped on skids or in crates. The number of skids/crates will vary, depending on the type, size and accessories ordered. These skids/crates are too heavy to lift by hand, and will need to be unloaded by an industrial fork-truck or similar equipment.

#### Inspection

A visual inspection of your equipment should be performed before it is removed from the truck. Dents, scratches, and other damages should be noted on the shipping documents, and also photographed. The structural integrity of the housing can be adversely affected by large dents. VentBoss should be immediately notified of any structural damage to your equipment. It is the purchaser's responsibility to file shortage reports and damage claims with the carrier and with your VentBoss Representative. The carrier is responsible for any damage to the equipment while it is in transit unless specific arrangements are made otherwise.

Compare the number of items received against the carrier's bill of lading. Inspect all items for apparent damage. Immediately report any shortages or obvious damage to the carrier and to your local VentBoss Representative, call the factory at 1 (855) 558.VENT, or email: customer.service@ventboss.com.

When all skids are completely unpacked and uncrated, check all items received against the packing lists. Further inspect the unit and components for hidden damage. Again, report any shortage or damage to the carrier and to your local VentBoss Representative.

The filter cartridges are typically shipped installed in your collector. Be sure to check them for alignment, as they may have shifted during transit. If they have shifted, it is possible that damage may have been done. Remove all filter cartridges and inspect thoroughly.

Note: Do not return any damaged components without first contacting your VentBoss Representative to obtain a Returned Goods Authorization (RGA).

#### **Small Parts**

Carefully inspect all packing material before it is discarded, to be sure that no small parts have been missed.



G120 with 8"W x 10'L FumeArm G123 with 8"W x 14'L FumeArm



G121 with Dual 6"W x 10'L FumeArm G124 with Dual 6"W x 14'L FumeArm



G122 with Downdraft/Backdraft

VentBoss G100 Series Portable fume extractors allow you it to easily convert from a powerful Fume Arm Extractor to a High Capture Backdraft unit and then to a capable Downdraft Table all in a matter of minutes (with optional equipment). Any one of these options can be changed due to the patent pending, SnapLock design, enabling the VentBoss to cover nearly every manual welding process undertaken in your plant.

### **GENERAL OPERATION**

The VentBoss Series 120 Portable has been designed specifically for manual welding operations that require mobility. The extra-large 8" fume arm extends to a full 8 foot radius and can swing 270 degrees with ease. The G122 Backdraft/Downdraft configuration, also equipped with the quick connect system, has been engineered to create a horizontal and downdraft suction which diverts smoke and fumes away from the operator.

Each configuration draws dust-laden air through a secondary internal baffling design that causes separation and deposition of the larger, heavier dust particles. These particles are diverted to the dust storage device thus reducing the dust load to the filter cartridges. Finer particles are collected on the surface of the filter cartridges but will eventually be dislodged through the manual pulsing system. Clean air is then drawn through the exhaust plenum as clean air into the plant facility.

# SECTION 500 INSTALLATION



FIGURE 7



FIGURE 8



FIGURE 9

To operate your new VentBoss Series 100 Portable, you will simply need to set your position, plug it into a dedicated 110 volt 20 amp plug and start welding. After each use, the filter element will need to be back pulsed (see Pulsing the Series 100 Portable).

### **Compressed Air Hook-Up**

IMPORTANT! First and foremost, your VentBoss Series 100 Portable unit needs a clean, dry, compressed air source, approximately 80 to 90 PSI. Figures 7 and 8. Many problems can be traced back to the presence of oil or water in the compressed air system. If contamination is present, both the cartridge and cleaning system will suffer.

## **Electrical Hook-Up**

The VentBoss Series 100 Portable comes ready to plug into a 20 amp, 110 volt service. Figure 9.

Amperage requirements of the single phase, 110 volt model are found on the product specifications guide.

# SECTION 600 OPERATION



FIGURE 10



FIGURE 11



FIGURE 12



FIGURE 13

# Pulsing the Series 100 Portable (Cleaning the Cartridge Filter)

The VentBoss Series 100 Portable comes equipped with a Manual Pulsing System (MPS) located just above the cartridge access door. To operate, compressed air must be hooked up to the air inlet. Figure 10.

After each days use, press the solenoid plunger 5-15 times to back-flush the filter cartridge. This cleaning process will loosen the collected particulate from the cleaning cartridge and it will be collected in the dust tray below.

For best results, press the solenoid plunger in short, timed blast of 3-5 seconds between each pulse. The motor MUST be turned off for this process.

# Fume Arm Adjustment (Models G120, G121, G122, G123)

The Multi-Positional Fume Arm comes factory adjusted and balanced for maximum ease of mobility. Figure 11.

Position the Fume Arm by pushing or pulling the hood section over the welding area as shown. Place the fume hood above and slightly in front of the welding area. Figure 12. This will keep smoke and fumes away from the operator. Adjust the Fume Arm hood to maximize smoke capture.

The VentBoss Fume Arm has two adjustment points, that can be changed at any time to give the arm greater flexibility. Figure 13.

Friction disks, located at the base of the arm and at the first hinge point, can be tightened or loosened with a 12mm wrench. Simply tighten the nut on the friction disk to make the joint stiffer or loosen to give the joint freer,

less restricted action. Be careful not to over tighten the disk as this could cause permanent injury to the arm.

Some fume arms come equipped with a shock or strut. The shock is not adjustable.



FIGURE 14



FIGURE 15



FIGURE 16



FIGURE 17

## **Installing the Backdraft Plenum (option)**

To install the optional FlexDraft as a Backdraft Plenum simply replace the Fume Arm connector plate with the FlexDraft Plenum. This is done by releasing the Quick Connect with an 8mm hex wrench. Turn the latch clockwise 1/4 turn to release the plate. Replace the Fume Arm and Fume Arm Plate with the FlexDraft num by sliding it toward the back of the unit.

This will lock the Flexdraft in place. Once the plenum has been secured, turn the two 8mm Quick Connect latches 1/4 turn clockwise to seal the Flexdraft to the VentBoss Portable.

Once the FlexDraft Plenum is secure, release the retainer pin from the leg/hood support. Figure 14. Swing the hood support forward until the hole on the leg lines up with the front of the hood bracket. Once in place, slide the weld curtain over the supports and drape over the backdraft plenum. Figure 15.

## **Installing the Downdraft Plenum (option)**

To install the FlexDraft as a downdraft table, first disconnect the front cover plate by releasing the two Quick Disconnect latches. Figure 16. Remove the weld curtain and lock the hood/leg support in the down position as shown in Figure 17. With the legs downward, slide the plenum up and over the exposed downdraft intake. The plenum will hang in place until you secure the Quick Disconnects with a 1/4 clockwise turn. Figure 18. Install the front cover plate to the open Backdraft/

Fume Arm Intake with the two Quick Disconnect latches. Adjust the leg height and lock the back wheels.



FIGURE 18

# GENERAL MAINTENANCE PROCEDURES



FIGURE 19



FIGURE 20



FIGURE 21

Note: These procedures are to be performed while there is no welding occurring!

## **Replacing the Filter Cartridge**

The premium high grade A15 filter of the VentBoss can be back – pulsed countless times before it need to be replaced. Prior to making a decision to replace the filter, first follow the procedures of "Pulsing the Series 100 Portable" in Section 700. The cartridge can also be taken out and manually cleaned with compressed air. If the VentBoss still does not draw sufficiently, then replace the cartridge.

To replace the filter cartridge, release the filter clamps by pulling outwards on the two levers located on each side of the filter. Figure 19. Slide the cartridge out the door and replace with a new RoboVent filter. Figure 20. Replacement filters may be ordered by calling VentBoss at 1-855-558-VENT.

## Replacing the Baffle Filter

The VentBoss Series 100 Portable comes equipped with an internal spark arrestor filter located in front of the cartridge filter. Figure 21. **CAUTION! DO NOT replace this panel with anything other than what was originally installed in your portable unit. Failure to do so will greatly increase the risk of fire.** 

Placement of the baffle is extremely important as the baffles should run vertical with cup side facing toward the front of the collector. Failure to place the baffle as shown will increase the risk of fire.

Note: A mesh-type filter may be supplied instead of the baffle in some situations.

# GENERAL MAINTENANCE PROCEDURES (continued)



FIGURE 22

### **Cleaning the Spark Arrestor Filter**

The spark arrestor filter should be removed and cleaned on a regular basis. If particulate builds up on the baffle the risk of fire in the system is greatly increased. Typically, the filter should be removed and cleaned with a hot detergent solution every month. Filters that are bent or deformed beyond repair should be replaced. See product specifications for ordering a proper replacement.

## **Dust Tray Removal (Cleaning)**

Cleaning frequency of the dust tray will vary depending on the welding situation and use. Periodically check the tray for particulate. The dust tray is located immediately below the cartridge filter and can be accessed through the filter door. Figure 22.

Dust tray removal should be as follows:

- Open door, slide out the dust tray and discard the particulate.
- Vacuum excess dust and particulate from the walls and floor.
- Clean tray and housing with clean rags and an industrial strength degreaser, (once every 6 months, or at time of cartridge replacement).
- Return dust tray to its original position, close and latch the door.

#### **Blower Maintenance**

The blower in your VentBoss Portable will require very little attention, although it is important to make sure it is kept clean. If your motor is fitted with grease nipples, they must be lubricated every six months.

Installation of a new blower wheel requires a certified VentBoss Technician to balance the wheel and motor. Contact 1-855-558-VENT.

# GENERAL MAINTENANCE PROCEDURES (continued)



FIGURE 23



FIGURE 24



FIGURE 25



FIGURE 26

#### **Solenoid Valve Maintenance**

The Pulse Solenoid is located just below the blower wheel in the Motor Plenum. Figure 23. Under normal conditions, the pulse valve will last for the life of the collector. Clean, dry compressed air, at 90 PSI, will assure long, maintenance free life of the solenoid. (See Specifications for replacement)

# Replacing Metal Mesh Filters in Backdraft/Downdraft Plenum

The optional Backdraft/Downdraft Plenum comes equipped with two 20" x 24" x 2" Metal Mesh Spark Arrestors. It is extremely important that these filters be cleaned on a regular basis.

CAUTION! DO NOT replace the two Metal Mesh Spark Arrestors with anything other than what was originally installed. Failure to do so will greatly increase the risk of fire.

The two Metal Mesh are located just below the support grate of the Backdraft/Downdraft Plenum. To access the filters remove the two screws opposite the hinge side of the support grate. Figure 24.

Hinge the support grate back until it rest against the front face of the collector. Figure 25.

Remove both Metal Mesh from the Backdraft/Downdraft Plenum and replace with new or clean filters. Figure 26.

## **Cleaning the Metal Mesh Spark Arresters**

Both filters should be cleaned with a hot detergent solution every month. If a high pressure power washer is used for this process make sure the aluminum mesh and frame is not bent or deformed beyond repair. See Specifications for ordering proper replacements. The inside of the Backdraft/Downdraft of the VentBoss Series 100 Portable should be vacuumed and cleaned with an industrial degreaser after 500 hours of use.

# TROUBLESHOOTING

### VentBoss Series 100 Portable is making excessive noise. Check the following:

- 1. Make sure the blower wheel is not hitting the venturi.
- 2. Check that all motor bolts are securely tightened.
- 3. Make sure motor bearings are good. (Amperage rating will be higher than normal.)
- Blower wheel could be out of balance. If the blower wheel has gone out of balance, there will be excessive vibration. In this case, please contact the VentBoss Technical Department at 1-855-558-VENT.

## Manual Pulse Filter Cleaning System is not operating:

- 1. Verify that the airline is connected to the air tank.
- 2. Check air tank pressure. The pulse valve works best when pressurized at 90 105 PSI.
- 3. Check diaphragm on solenoid valve. If optimized pressure is supplied to the air tank then a problem may exist with the solenoid diaphragm. See product specifications to order a new diaphragm kit or complete valve from VentBoss Service Department.

#### Little or no suction across intake. Check the following:

- Cartridge filter is loaded. Review "Pulsing the Series 100 Portable" in Section 600 under OPERATION. With the air hooked up press the Solenoid Plunger 25-30 times with a 3-5 second spacing between each pulse. Make sure the unit is turned off for this process.
- 2. If using a fume arm make sure the butterfly valve behind the intake hood is not closed. Sometimes this valve will close on it's own, cutting off most of the air supply.

### Cartridge filter loads up but no dust in the dust tray. Check the following:

- 1. Check that the Manual Pulsing System is working properly.
- Check for oil or moisture on the filter media. If oil or moisture exists in the air supply it will transfer to the cartridge.
  - In some cases high oil content is introduced in the welding process causing the oil to vaporize. This will cause the cartridge filters to load up prematurely. Call the VentBoss Service Department at 1-855-558-VENT for more information.

#### Fume Arm falls when extended:

- 1. Tighten the friction disk located near the swivel base of the arm. Be sure not to over tighten. (See Fume Arm Adjustment in Section 600).
- 2. Fume Arm may be overextended beyond it's weight limit. Place the arm closer to the portable.

# INSTALLATION, OPERATION, & MAINTENANCE

## **General Description & Reservations**

VentBoss Base Mount Fume Arms are meant for capturing the welding dusts and gases as well as fine dusts, straight at the emission source, in order to avoid expanding the impurities in the process room and being inhaled by people. The arms are manufactured in hanging and standing version. The extraction arms can work independently with an e traction fan, or in a group of devices connected to the main discharging ductwork with a central fan.

#### **Producer Reservations:**

- A. Producer accepts no liability for any consequences following from the operational use that is in contradiction to the purpose of application.
- B. It is unacceptable to install on the structure of the device any additional elements not belonging to its normal construction or accessory set.
- C. Any structural changes or modification of the unit, made by User on one's own, are not permitted.
- Protect the flexible elements as well as the pipes of the suction duct from mechanical damage.
- E. Prior to installing check the load capacity of the wall or other building structure where the device shall be mounted.
- F. The devices cannot be applied for conveying the air containing aggressive contaminants.

#### Structure & Function

VentBoss extraction arms are constructed of subsequent assemblies presented in Diagram 1 (See Appendix A):

- Swivel
- Two pipe segments ("I" and "II") connected together with frictional joints
- Gas springs to balance the segment weights
- Shut-off damper
- Suction hood with wire mesh protecting the inlet from getting in the burning rests and chippings.

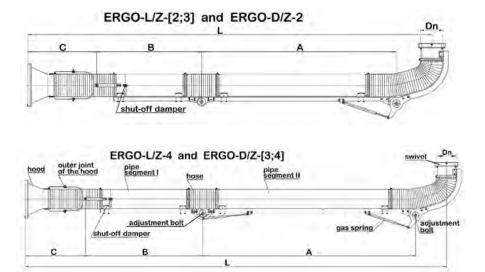
The swivel guarantees a full rotation of the whole appliance around its vertical axis and therefore ensures an easy device positioning in the requested point within the workspace. The swivel and the pipe segments integrated together with hose sections (flexible connectors) along with the attached hood — are forming a ventilation duct altogether, serving for extraction the dust laden air. This arm configuration can be changed within the work range of the given type of the extraction arm. Additionally, the intake air volume can be adjusted by means of the shut-off damper (installed in the pipe segment "I"). Adequately adjusted frictional joints in co-function with the gas springs, provide comfort of maneuvering with the extraction arm.

The suction hood can be equipped with a halogen spotlight to light up the workspace. In order to install the extraction arm on the wall or column use a wall bracket. It can also be suspended at the end of the RO-type extension arm.

## **Technical Specifications**

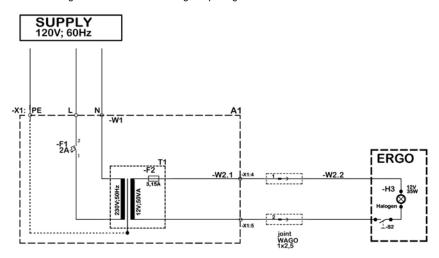
Туре	Dimensions				Weight	
	Dn {inch}	L {inch}	A {inch}	B {inch}	C {inch}	
ERGO-L/Z-2	Х	90,80	35,71	22,91	Χ	37,4
ERGO-L/Z-3	Х	90,80	35,71	22,91	Χ	37,4
ERGO-L/Z-4	Х	90,80	35,71	22,91	Х	37,4
ERGO-D/Z-2	Х	90,80	35,71	22,91	Χ	37,4
ERGO-D/Z-3	Х	90,80	35,71	22,91	Х	37,4
ERGO-D/Z-4	Х	90,80	35,71	22,91	Χ	37,4

(Refer to diagrams below for DN, L, A, B, & C



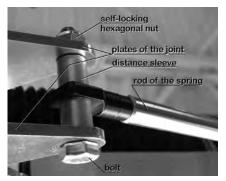
VentBoss extraction arms in versions ERGO-L/Z and ERGO-L/Z are equipped with hoods with halogen spot-lights. See next page for connection diagram.

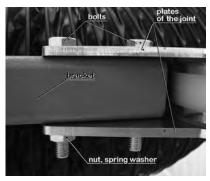
Connection diagram for hoods with halogen spot-lights:



## **Fume Arm Assembly**

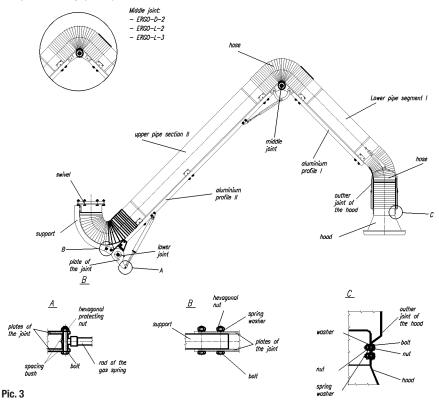
- Take out the VentBoss extraction arm from the package and put it stably on an even surface.
- 2. Pull the arm segments apart until you obtain the 45° angle.
- 3. Screw up the swivel support to the plate of the lower joint see detail "B" (Pic. 2)
- 4. Fold in the loose fabric edge, at the end of the hose then sleeve the hose onto the swivel ferrule and secure it with a hose clamp.
- 5. Fasten the termination of the gas spring with a screw to the plate of the lower joint see detail "A" (Pic. 1).
- Connect the upper segment II with the lower segment I using a hose following the point 4.
- 7. Screw up the outer joint to the hood see detail "C" (Pic. 3).
- 8. Using a hose, connect the lower segment I with the hood following the point 4.
- 9. The VentBoss extraction arm is ready to be mounted on a wall bracket or to a filtering device.



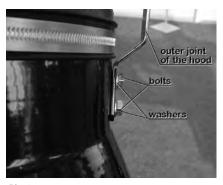


Pic. 1 Pic. 2

In case when the extraction arm is installed on a wall bracket, it is important to carry out levelling of the bracket surface while mounting it on a wall. If the bracket is not levelled, the extraction arm is likely not to keep the requested by User work position and tend to fall into one position only (Pic. 4).

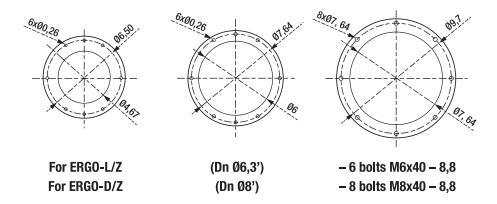


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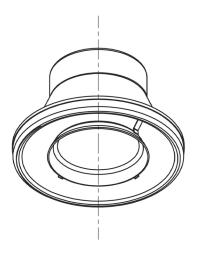


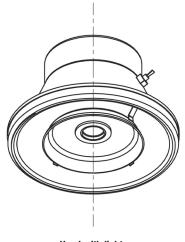
Pic. 3 Pic. 4



VentBoss Fume extraction arms are delivered in cardboard packages in a partly assembled state. Before the extraction arm is installed at the work place — it is important to bring the device into completely assembled state (according to the enclosed instruction). The extraction arms can be mounted on a wall bracket (delivery on separate order). The diameter and placement of the mounting holes in the bracket and in the arm swivel are the same.

It is inadmissible to install the VentBoss extraction arm directly to the ventilation installation, as it is usually not constructed to carry such charges during the operational use of the device.





Hood with light

- Prior to work, start the extraction fan and make sure the ventilation discharge ductwork is functioning.
- Set the hood into suitable position: not more than 30 cm from the welding arc, and not less than 20 cm – as the welding chippings could effect the hood and additionally the hood suction could interrupt the protection gas shield (CO2, argon). It is important that the hood is effectively capturing the fume and does not cause any obstacle to User.
- Using the shut-off damper lever, adjust the intake air volume to eliminate the dust / fume most efficiently.
- The position of the hood and the damper lever can be changed many times during the work, so User can adjust them most appropriately, to the current needs.
- After the work is completed the extraction arm can be left in the ultimate position (operational state), or if it causes obstacle – set the arm in the home position.
- Stop the extraction fan, if the device works in a ventilation system close the appropriate shut-off damper.

### **Using Your VentBoss Fume Arm**

The construction guarantees a safe and reliable function without continuous servicing and special handling. The adjustment of the ERGO extraction arm consists mainly in corrections within the frictional joints. The frictional brakes are placed in each joint of the d evice and their function is to give the balance and self-supporting properties of the whole extraction arm and ensure an easy manoeuvring during the operation.

The adjustment of the frictional brakes is carried out by increasing or reducing the tension of the nuts upon the frictional elements.

The brake adjustment in the following joints ought to be executed in such a way that it guarantees the stability and self-supporting features of the extraction arm (which is important to keep the stable arm position), whereas on the other hand this cannot cause any excessive resistance while User is changing the arm position. Having completed the adjustment, tighten up the counter-nut. The placement of the adjustment nuts is illustrated in the "VentBoss Extraction Arms – Dimensional Drawings" (Diagram 1—Appendix A).

	Туре	Possible Reason & Corrective Action
1.	The extraction arm is falling.	-Improperly adjusted frictional brakeIncrease the tension upon frictional disks of the brake in the joint by tightening the adjustment nuts.
2.	The extraction arm is automatically setting always in the same position.	-The rotation axis of the arm is not positioned verticallyCarry out the positioning of the mounting flange of the ERGO extraction arm to set the rotation axis vertically.
3.	Drop in the air suction rate along with the increased noise level.	-Improper impeller rotation sense of the extraction fanChange the phase connection sequence (only 3-phase motor). If the mesh holes of the inlet net are clogged, clean them using a wire brush.

## Safety

The VentBoss extraction arms will not cause any risk provided that they are firmly and correctly mounted to the wall or another structural element of the building.

**CAUTION!** Unsure installing could cause uncontrolled detachment of the device and be serious risk to personnel / people in the vicinity. Having completed the work, leave the extraction arm in the ultimate operational position, in case when it constitutes obstacle to personnel/User, set in into the home position. Prior to installing check the load carrying capacity of the building structure.

#### Maintenance & Repair

In order to obtain appropriate capture efficiency of the suction hood, clean its surface and the inlet wire-mesh net from the deposited dusts and impurities. In case of welding dusts, additionally – sprinkle the hood with an anti-spattering liquid to avoid adhesing the welding chippings.

In case when the extraction arm is losing its self-supporting properties — undertake the adjustment of its frictional brakes (to regain self-locking function of the joints).

Lubricate the swivel every 3 months using solid grease (lubrication nipple is located in the swivel flange).

After 1 operational year, submit the device to a technical revision and repair or replace the faulty element.

Clean the internal surfaces of the extraction conduits (segment pipes) from the deposited impurities. Revision frequency depends on the operational intensity. It is recommended to examine the pollution state of the discharge conduits once in three months.

## **Transportation & Storage**

VentBoss extraction arms have to be stored and transported in partly disassembled state and in special packages. The devices ought to be stored in dry and well ventilated rooms. During the transport / reloading protect the device from scratching, indents and pay attention that the markings and labels would not get detached/obliterated.

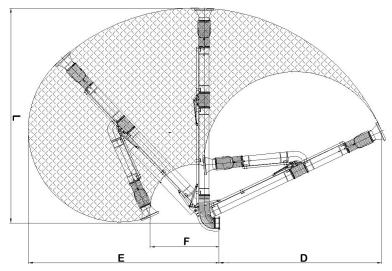
## Warranty

The period of warranty for the purchased device is indicated in the "Card of Warranty". The warranty does not comprise:

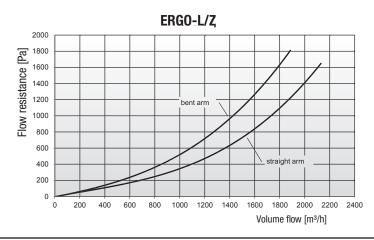
- defects and damages arising during the incorrect use and in application that is inconsistent with the present manual
- mechanical and electrical damages being caused during improper storage and transport or incorrect maintenance
- structural modifications, or changes / adaptations introduced by User on one's own
- inefficiency following from the normal operational exhaustion

Infringement of the section 3 "*Reservations of producer*" of the *Owner's Manual* and especially modifications undertaken by User on one's own shall cause the loss of warranty validity.

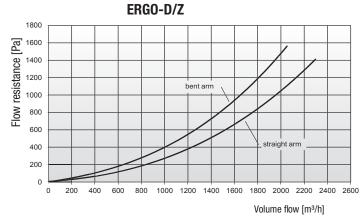
# **Range of Fume Extraction Arm:**

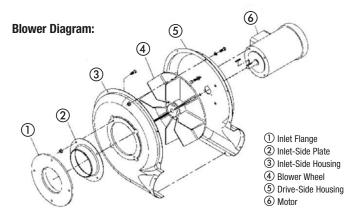


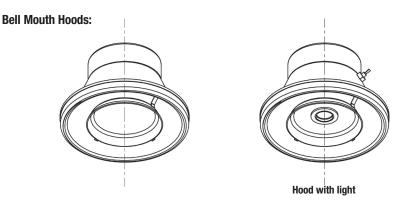
Туре	D (mm)	E {mm}	F {mm}	L {mm}
ERGO-L/Z-2	65,51	79,72	28,27	90,79
ERGO-L/Z-3	87,56	108,07	38,74	122,28
ERGO-L/Z-4	106,06	131,81	47,52	148,66
ERGO-D/Z-2	64,96	79,02	27,91	90,00
ERGO-D/Z-3	88,66	109,49	39,25	123,86
ERGO-D/Z-4	105,47 47,24 147,87			



# **Range of Fume Extraction Arm:**









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