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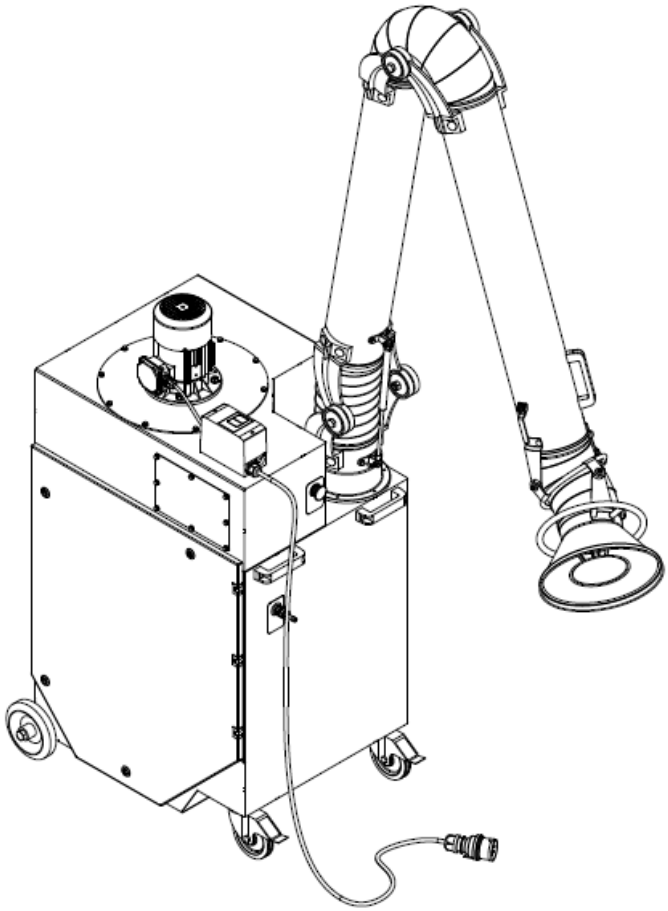

PRODUCT GUIDE FOR

PORT700CF–O – PORTABLE FUME COLLECTOR

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GENERAL SAFETY INFORMATION

MACHINE WARNING SIGNS

⚠DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
Used without the safety alert symbol (⚠) indicates potentially hazardous situation which, if not avoided, may result in property damage.

Warning of electric shock

Do not expose the equipment to rain or use in damp locations.

Do not use the equipment around flammable products, if not avoided, sparks can ignite vapors from flammable products.

Read and understand all warnings and operating instructions before using this equipment. Failure to follow all instructions may result in electric shock, fire, and/or serious personal injury or property damage.

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TECHNICAL SPECIFICATIONS

Motor Specs:	1.5 HP
Electrical Specs:	120V / 60Hz / 1Ph
Air Volume:	700CFM (with fume arm)
Inlet Sizes:	(1) 6″ diameter on top & (1) 6″ diameter near bottom
Packing Size: (L x W x H)	42.5″ x 35.8″ x 70.1″
N.W. (machine):	398 lbs

Filter Media	107.6 ft2
Carbon Filter	Part# PS-150-61
Aluminum Mesh	Part# PS-150-77
Cartridge Filter	Part# PS-150-81

GENERAL INFORMATION

This instruction manual contains PORT700CF portable fume collector use and maintenance information. User should become acquainted with contents of this publication to learn about unit construction, principles of operation and means of its safe use. Manufacturer is not responsible for any consequences arising from the use of the unit against its intended purpose. Manufacturer reserves the right to make changes to improve performance and operational qualities of the product in the future without prior notice.

PRODUCT APPLICATION

PORT700CF portable fume collector may be operated without restriction in working areas intended for permanent human habitation. The filtration unit is primarily designed for extraction and purification of welding dust, but may also be used for extraction of dust in processes of grinding, polishing, pouring, dispensing, cutting metals and plastics (excluding corrosive, chemically aggressive, explosive and flammable gaseous mixtures). The filter cleaning process requires a local compressed air supply system.

EQUIPMENT ARRIVAL

Upon arrival the user needs to thoroughly inspect the equipment and make sure there was no damage caused by the shipping carrier. If there is damage, the user needs to immediately contact their supplier. Transport of the device on a pallet can be done with a manual forklift or a self-propelled lift truck.

The user should make sure that the items listed below were included with the device set:

- Metal mesh prefilter
- Main cartridge filter
- Carbon after-filter
- Fume Extraction Arm

In the case of lack of any listed items, please contact your Ventaire representative

INSTALLATION

SAFETY PRECAUTIONS

Read this Manual carefully before installing and operating the product and maintain a copy on site for reference.

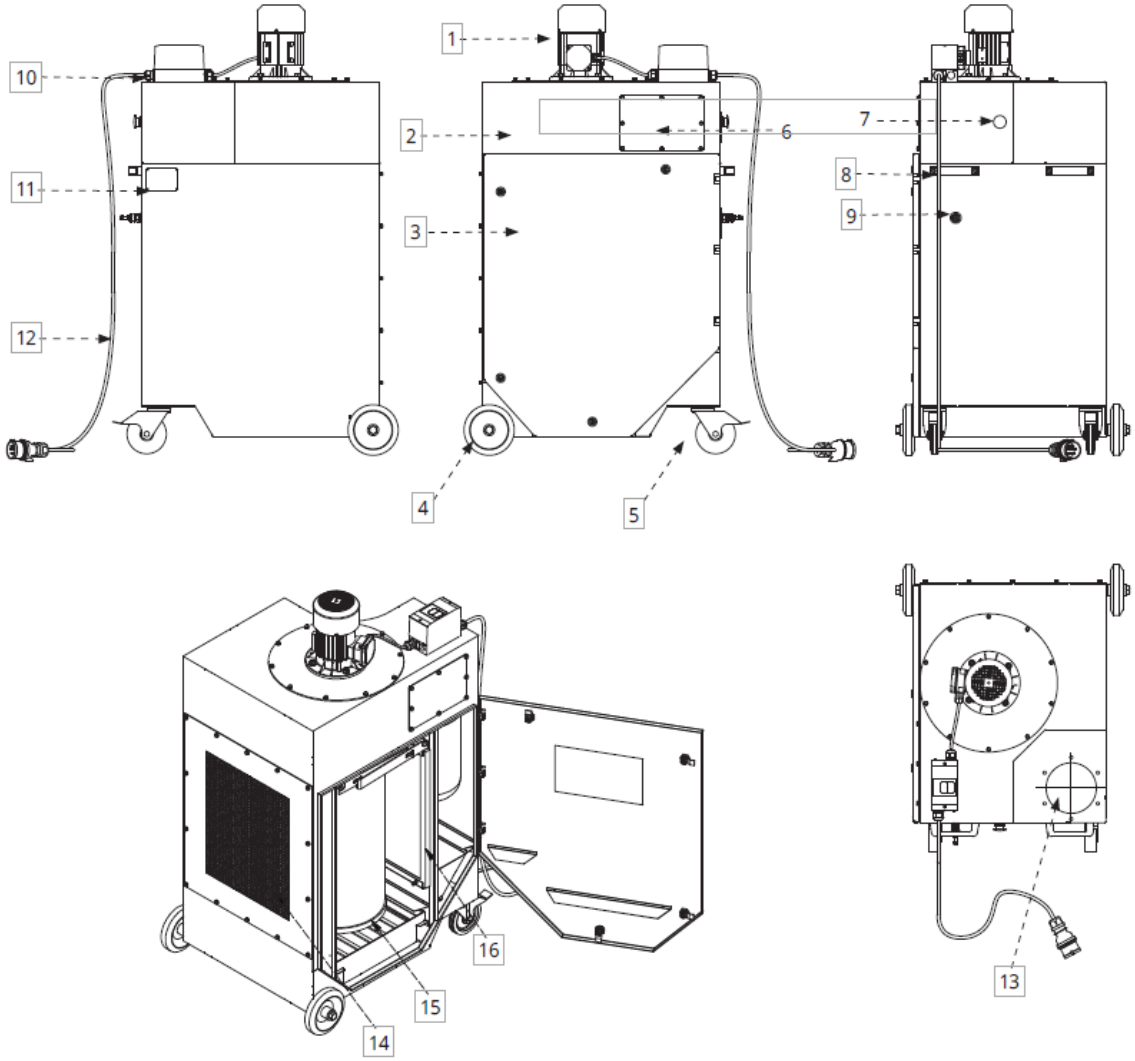
⚠WARNING

ELECTRIC SHOCK can kill.

- ***Have a qualified electrician install and service this equipment.***
- ***Do not touch electrically live parts such as internal wiring.***
- ***Do not disconnect the wiring jack before turning off power!***

1. Check that the voltage, phase and grounding wire match the machine requirements.
2. Check that the electrical specifications of this machine meet safety requirements, and that maintenance is carried out by a certified electrician.
3. Confirm that the parts/accessories have been fully assembled to insure safe and reliable machine operation.
4. Due to the weight of the unit, great care must be taken when moving to avoid injury. Use lifting and transport equipment as necessary.

MAIN COMPONENTS



1. Motor
2. Housing
3. Door
4. Wheels
5. Swivel Caster wheel with brake
6. Compressed air set inspection plate
7. Button - compressed air cleaning manual release
8. Grab handle
9. Compressed Air connection
10. Power ON / OFF
11. Nameplate
12. Power cord
13. Mounting arm connection Ø160
14. Carbon outlet filter
15. Cartridge filter
16. Metal mesh preliminary filter

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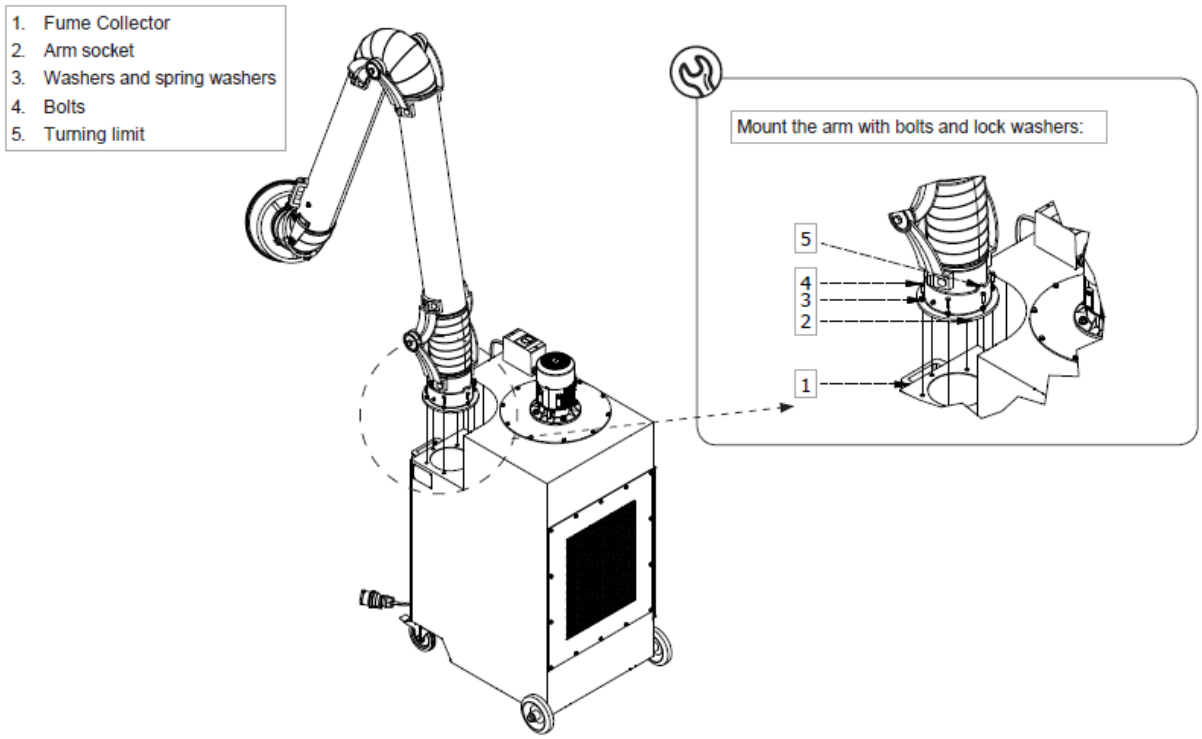
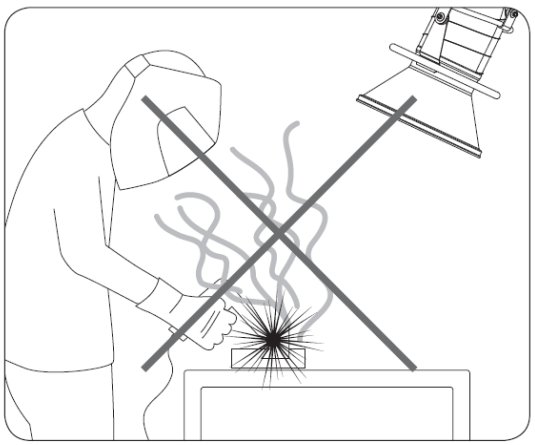
INSTALLATION

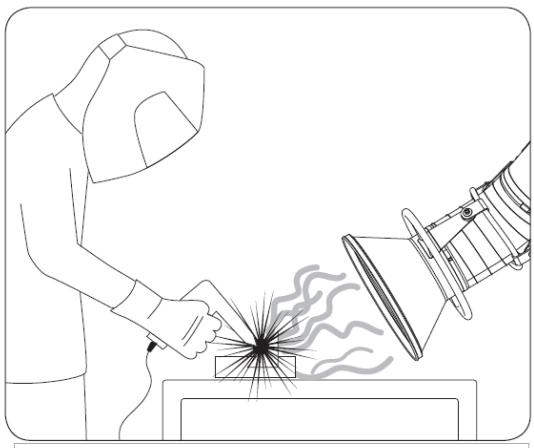


OPERATION

POSITIONING THE HOOD

Due to the limited range of effective operation of the hood (rapid decrease in speed of catching with a change in the distance) is the inlet in the immediate area of smoke emission.





The best effect is obtained when the inlet hood is positioned 6-12 inches from the source of emission.

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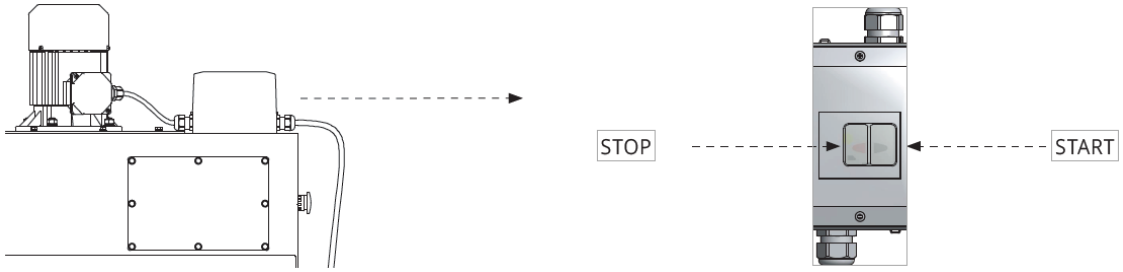
START-UP

Before starting the unit:

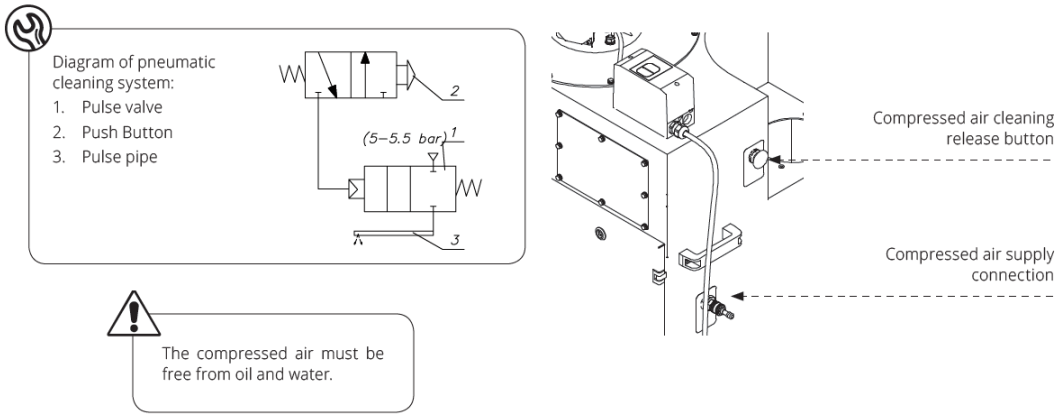
- Mount self-supporting arm on the connection plate.
- Connect compressed air supply.
- Plug the unit to power supply using the cable ended with the plug.
- Check all connections status.
- Start filter unit with main switch.
- Check the rotation direction of the fan - see an arrow on the motor housing

WARNING: Use appropriate personal protective equipment according to general health and safety rules. The machine equipped with the accessories complies with the required stability conditions. The device should be installed on flat, properly hardened surfaces. To avoid possibility of uncontrolled movement of the filtration unit, brakes should be locked in the swivel castors.



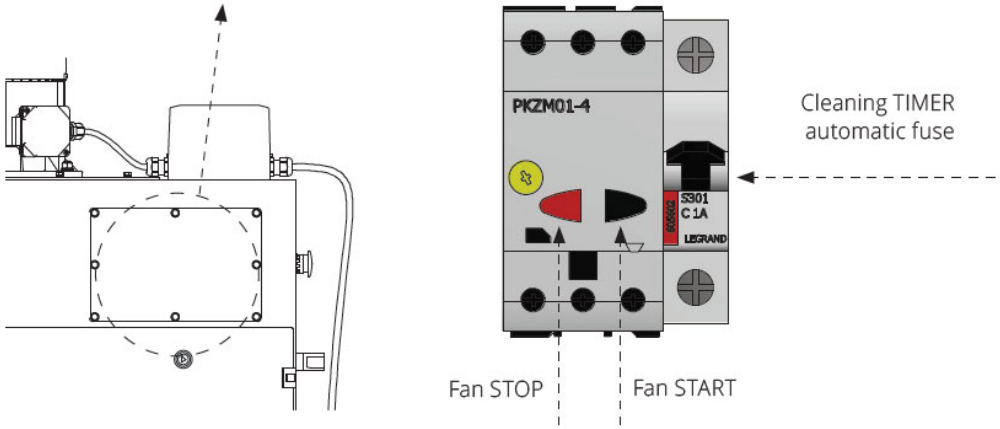
COMPRESSED AIR FILTER CLEANING SYSTEM

- Manual cartridge cleaning is activated with compressed air release button (see the drawing). A pulse of compressed air cleans the cartridges blowing off dust cake built up between cartridge pleats. Before next compressed air release wait about 5-10 seconds or until the tank is filled back with compressed air.
- Cartridges cleaning is recommended to be performed every time at startup and shutdown and during the work (not less than once every 4 hours). Each time when the airflow is significantly low compressed air cleaning is advised.



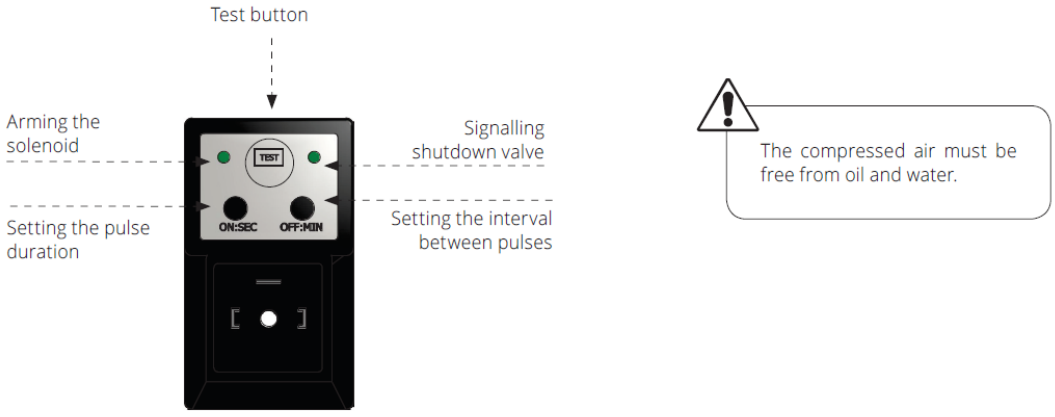
MOTOR CONTROL / CO PRESSED AIR CLEANING TIMER (OPTION)

Compressed air cleaning timer is installed on the pneumatic valve, access through the inspection door.



COMPRESSED AIR CLEANING TIMER

The compressed air cleaning timer controls duration and frequency of the cartridge cleaning pulse. The factory setting is 0.5 s impulse duration every 10 minutes.



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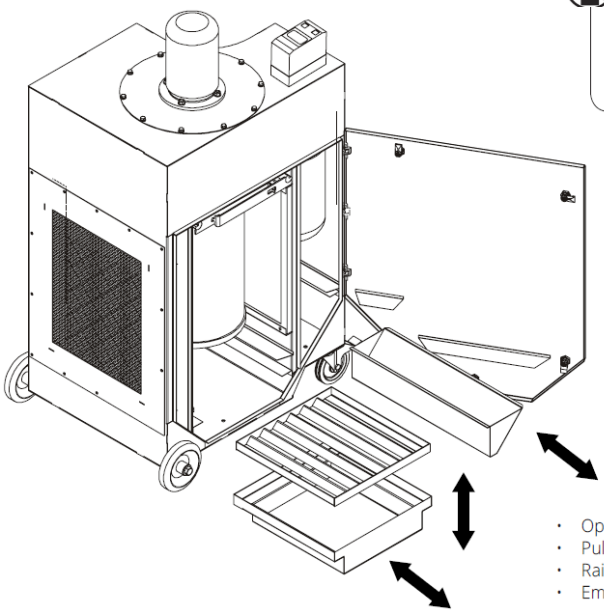
EMPTYING THE DUST DRAWER

The drawer collects dust from the filtration process. The amount of the collected dust depends on the pollution type. It is important to control the dust level in the drawer and empty it regularly.



Dust on the internal parts of the device can get into the respiratory tract and lead to skin irritation. Appropriate health and safety protection should be applied.

Before emptying the dust drawer, switch of the unit and disconnect it from the power and air source.

- Open the door.
- Pull out the drawer.
- Raise the hopper grate.
- Empty the drawer.

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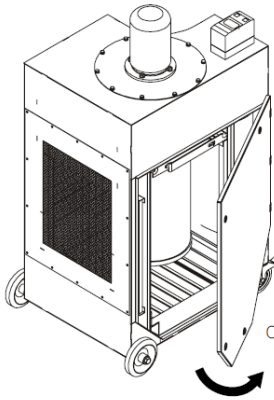
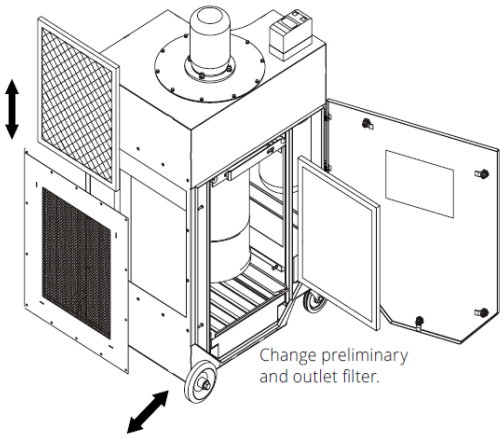
FILTER REPLACEMENT

Before replacing the filters switch of the unit and disconnect it from the air and power source.

Dust on the internal parts of the device can get into the respiratory tract and lead to skin irritation. Appropriate health and safety protection should be applied.

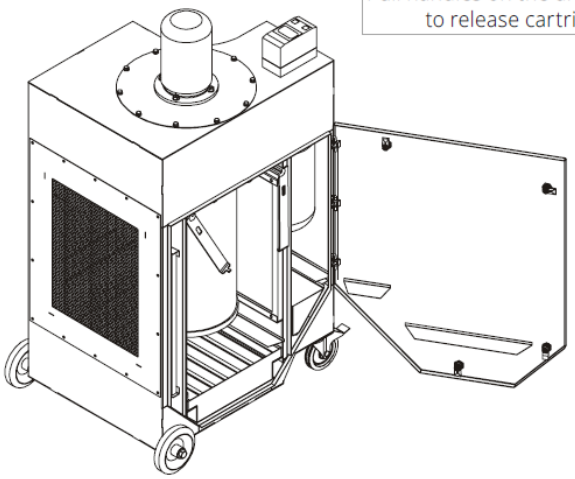


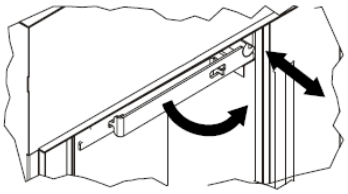
Open the door.

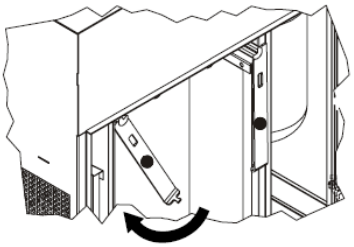


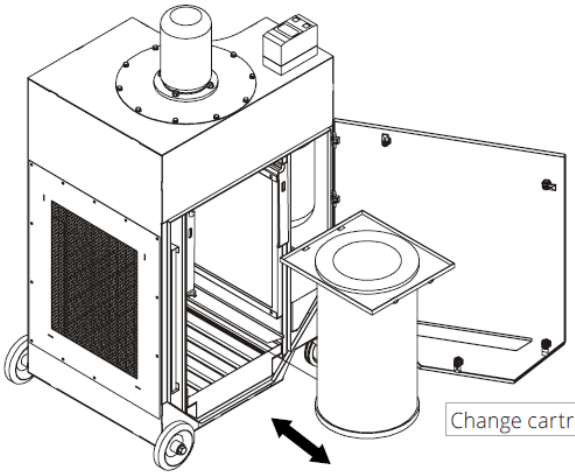
Change preliminary and outlet filter.

Release filter mounting levers. Pull handles on the drawer sides to release cartridge.









Change cartridge.

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MAINTENANCE

DAILY	MONTHLY	YEARLY
• overall control for connection tightness, including the state of chamber door seals and flexible hoses • pulse cleaning of dirty filter • cleaning of waste drawer	• visual inspection for signs of corrosion • electrical system and wire insulation control	• recommended replacement of the carbon filter and main filter cartridges • inspection for corrosion or any type of mechanical perforation of the filter box • control of the wire condition and ground connection

TROUBLESHOOTING

SYMPTOMS	POSSIBLE REASONS	PROCEDURE
Low air flow.	Filter cartridge is clogged.	Connect compressed air to the filter, perform the cleaning cycle several times. If this proves ineffective remove the cartridge, wash it with clean water and detergent.
	Compressed air with wrong parameters has being used. Cartridges blocked by moisture or oil.	Take cartridge out. Clean and dry . If it doesn't help change to a new one.
Dust coming out of the filter.	Wrong sealed or mechanically damaged filter cartridge.	Properly tighten the filter gasket. Replace filter cartridge for a new one.
Can not start the device.	No power supply.	Check the connection of the device, check the power supply.

Room capacity, partition walls material, architecture of the interior, installation place of the device and other installed machines may increase the total sound pressure level at workplace.

In case of discovering unusual phenomena such as increased noise, vibrations or smoke you should:

- disconnect the device from the power source
- disconnect the compressed air line
- try to suppress the possible flame source by using a powder extinguisher
- notify relevant services at the workplace

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Email: info@ventaire.com

12-MONTH WARRANTY

VENTAIRE warrants their products, to the original purchaser, to be free from defects in material and workmanship under normal use and service (except for those cases which buyer supplied materials are used) for a period of 12 months from the original date of shipment. During the warranty period, **VENTAIRE,** will at its option, repair, replace, or issue credit for any components that are deemed defective by **VENTAIRE**.

Buyer's failure to pay the full amount due within (60) days of invoice shall release seller from any and all liability or obligation to any warranty.

Before returning equipment for repair or replacement, a **Return Authorization Number** must be obtained from **VENTAIRE** (952-894-6637). The **Return Authorization Number** must be written on the outside of all shipping cartons. Items returned without a **Return Authorization Number** will be refused. Items returned should be in original condition in which it was received and must be accompanied with a written explanation of the reason(s) for their return.

This warranty does **not** cover damage caused by accident, misuse, misapplication, or unauthorized service modification.

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