



INSTRUCTION AND MAINTENANCE MANUAL

INDUSTRIAL VACUUMS

SERIES

- FOX 3
- FOX 5.5 P
- FOX 5.5/ S
- FOX 7.5/P
- FOX 7.5/WP
- FOX 10



This manual forms an integral part of the vacuum cleaner.
DEPURECO recommends to read carefully this manual and the other attachments supplied.
Knowledge of the instructions here contained is indispensable for the safe use and
maintenance of the vacuum cleaner.

ed. C - nov-21-2016

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IMPORTANT - The DEPURECO name and logo used in this document refer to and are property of **DEPURECO INDUSTRIAL VACUUMS S.r.l.**

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1. INFORMATION SECTION

1.0 Preface

Dear Customer

Congratulations on purchasing a FOX series DEPURECO vacuum. Thank you for choosing us. We have prepared this manual to allow you to fully appreciate the qualities of this machine. We recommend reading it carefully before using it for the first time.

It includes information, recommendations and important warnings concerning the use of the vacuum, which will help fully exploiting the technical properties of your machine.

We recommend reading carefully the messages, warnings and indications preceded by the following symbols:



for personal safety;



for vacuum integrity;



for environmental protection.

This vacuum has been designed for extracting dust and processing residues. The vacuum is installed on sturdy casters, one of which is equipped with a brake to hold it in place.

It is equipped with a vacuum meter to indicate the conditions of the filter: an increase in negative pressure indicates increased filter clogging, with a reduction of the suction power as a result.

The materials extracted through cyclone effect tend to settle on the bottom of the container; the finer dust particles contained in the mixture will settle on the filtering surface inside the chamber.

This manual describes the following models:

FOX 3

FOX 5,5 P

FOX 5,5 S

FOX 7.5 P

FOX 7.5 S

FOX 7.5 WP

FOX 10



These vacuums are classified according to the following dust classes:

M	medium risk - suitable for separating dust with an exposure limit value of $> 0.1 \text{ mg/m}^3$ depending on the occupied volume.
----------	---

H	high risk - suitable for separating all dusts with any exposure limit value, depending on the occupied volume, including carcinogenic and pathogenic dusts.
----------	---

This manual provides all the necessary information for the use and maintenance of your vacuum.

This specific model has undergone strict testing to ensure maximum reliability. Its operation and durability will depend on proper use and maintenance.

This manual is integral part of the vacuum and must accompany it at all times, until its demolition. In the event it is lost or damaged, you can request another copy from DEPURECO INDUSTRIAL VACUUMS S.r.l. (hereafter simply called DEPURECO).

The technical information contained in this manual is exclusive property of DEPURECO and must be considered confidential.

Reproduction, even partial, of graphics, text and illustrations is prohibited by law.

Some details shown in the figures in this manual can differ from those on your vacuum; this is because some components can be removed to ensure maximum clarity.

For easier consultation, this manual is divided into sections that are identified by a specific graphic symbol. The topics covered in this manual are those expressly required by Machinery Directive 2006/42/EC and the technical data are taken from the technical file archived at DEPURECO.

In compliance with Regulation 1907/2006/EC (REACH), DEPURECO declares that its products do not contain any Substances of Very High Concern (SVHC) included in the Candidate List.

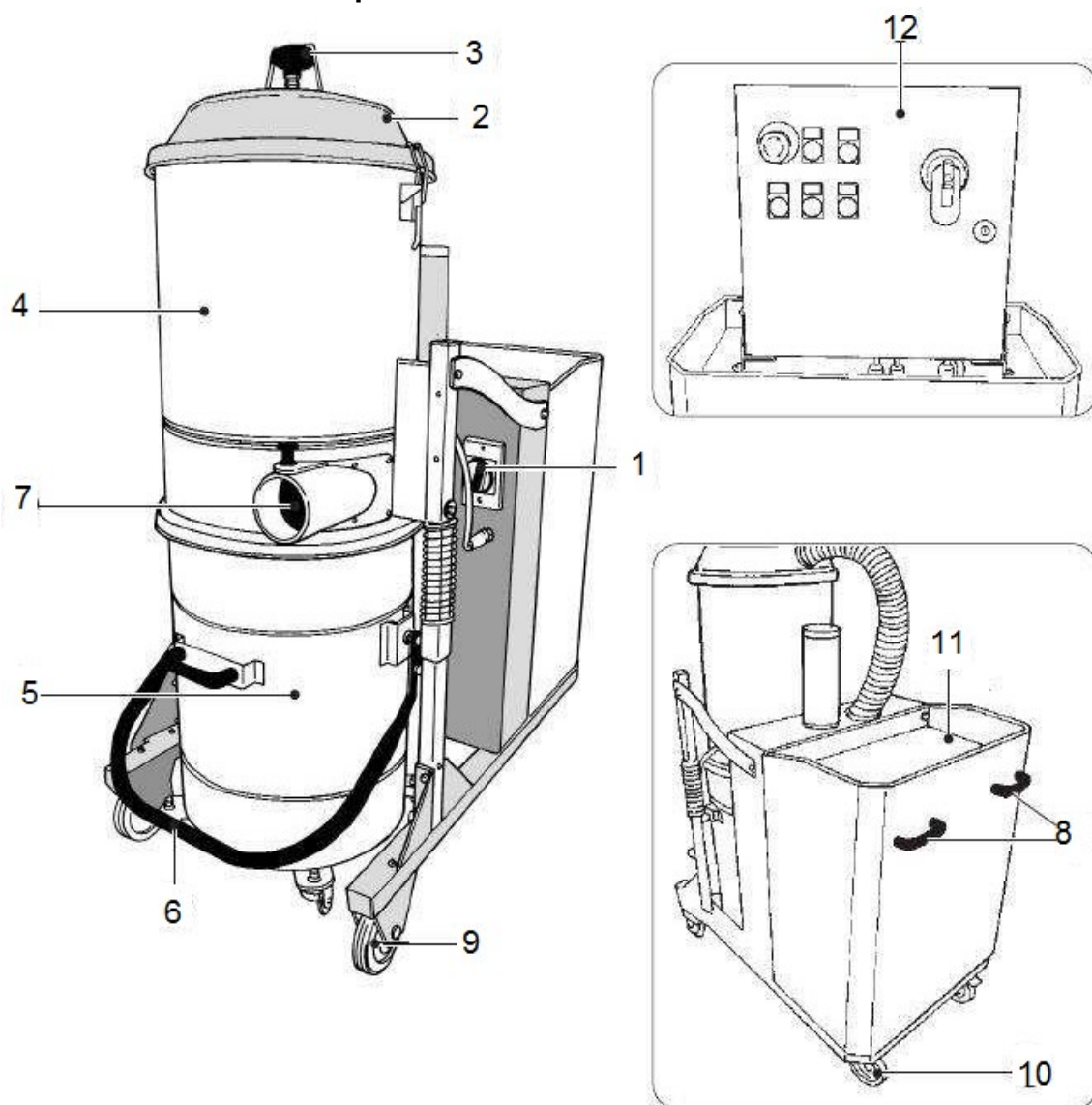
This manual must be kept in a place that can be easily accessed by the personnel in charge of running and maintaining the machine.

Any dispute will be heard by the Court of Turin (Italy).



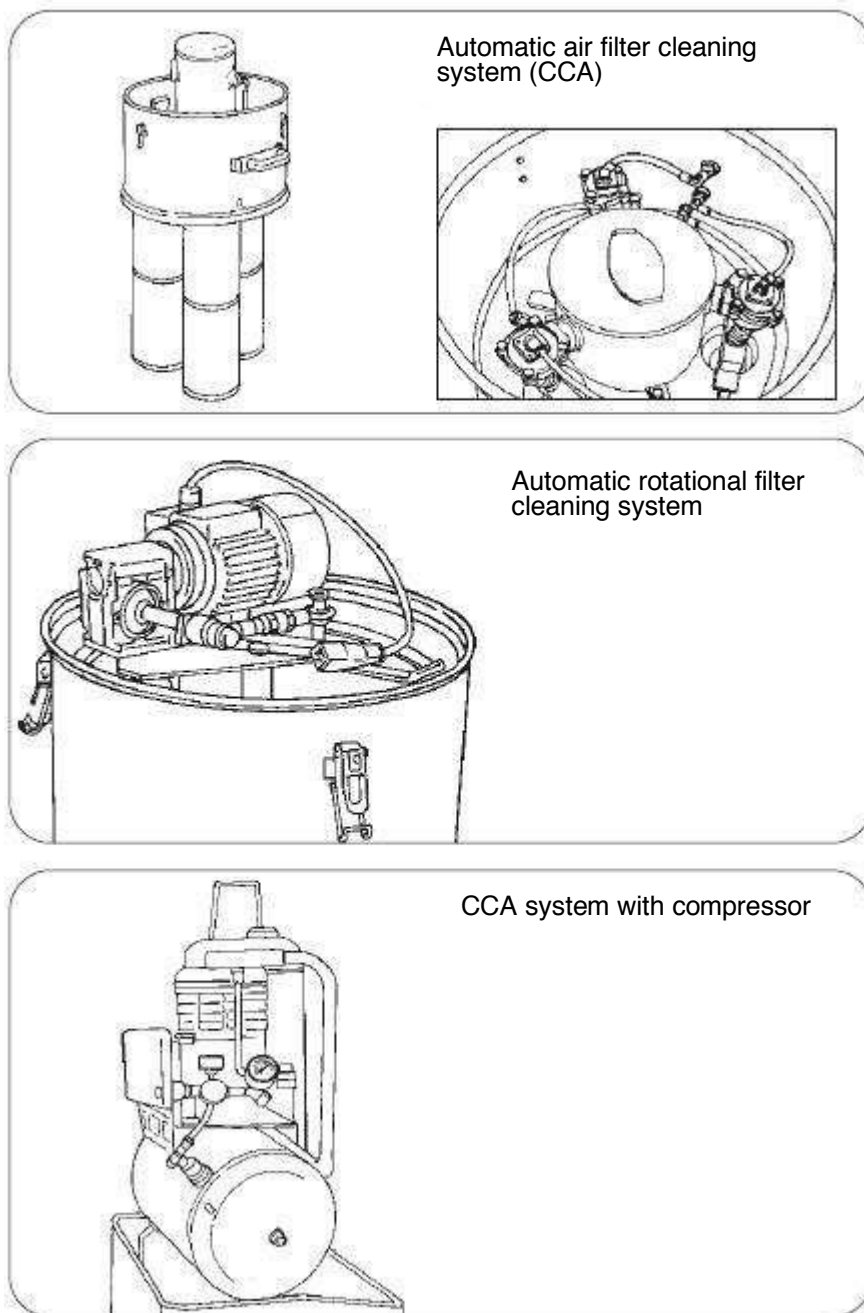
This manual must accompany the vacuum even in the event it is sold !

1.1 Identification of the main parts



- 1) On/off control
- 2) Cover
- 3) Filter shaker knob
- 4) Filter chamber
- 5) Extracted refuse container
- 6) Refuse container locking/release lever
- 7) Suction hose inlet
- 8) carry handles
- 9) Fixed casters
- 10) Swivel casters with brake
- 11) Accessory container
- 12) Electrical / control panel (FOX 10)

1.2 Options



DEPURECO provides a wide range of optional accessories, according to the application of the vacuum.

1.3 Manufacturer's identification data

DEPURECO INDUSTRIAL VACUUMS S.r.l.
 Corso Europa, 609 - 10088 Volpiano (TO) - ITALY
 tel. +39 011 98 59 117
 fax +39 011 98 59 326
 e-mail: depureco@depureco.com
 website: www.depureco.com



1.4 Identification plate

The data on the vacuum identification plate must be referred to in any communication with the manufacturer or the dealer.

DEPURECO S.r.l				C.so Europa, 609 - Volpiano (TO) 10088 - ITALY Tel. +39 011. 98. 59. 117 - Fax. +39 011. 98. 59. 326 MADE IN ITALY	
Mod.		Volt.			
Serial N.	kW	Amp.	Hz.		
Dust Class	IP	Kg.	Year		

1.5 Intended use

This model has been designed, manufactured and protected solely for professional industrial extraction of non-flammable and non-toxic dry dust.

For hazardous Zone 22 dusts, request the B1 version from DEPURECO.

If equipped with a special filter and float, the vacuum can also be used to extract non-flammable and non-corrosive liquids.

Any other use is considered **IMPROPER**.

1.6 Allowed environmental conditions

To ensure proper operation, the vacuum must be protected from weather agents (Rain, hail, snow, fog, suspended powders, etc.) at a room temperature ranging between 5 and 45 °C and a humidity below 70%. The work environment must be clean, suitably lit and must not give rise to explosive atmosphere.

1.7 Noise level

Photometric tests carried out on these specific models have shown a sound pressure level of

FOX 3	74 dB(A)
FOX 5,5 P FOX 5,5 S	76 dB(A)
FOX 7.5 P FOX 7.5 S FOX 7.5 WP	76 dB(A)
FOX 10	76 dB(A)



Attention!

For sound pressure levels above 85 dB(A), exposed workers must wear suitable personal protective equipment (PPE), such as type-approved individual hearing protection.



Under these conditions, workers must be provided with adequate training and information on risks arising from noise exposure.

1.8 Technical data

		FOX 3	FOX 5.5 P FOX 5.5 S	FOX 7.5 P FOX 7.5 S FOX 7.5 WP	FOX 10
POWER	kW	2,2	(P) 4 (S) 4,3	5.5	7.5
VACUUM	mBar	230	(P) 250 (S) 430	(P) 310 (S) 510 (WD) 360	380
MAX AIR FLOW	mc/h	320	(P) 520 (S) 320	(P) 520 (S) 320 (WP) 600	530
VOLTAGE	V-Hz	400 - 50/60			
INTAKE OPENING	mm	80			
FILTER SURFACE	cmq	24.000			45.000
DUST BIN	L	100			
NOISE LEVEL	dB(A)	74	76	76	70
WEIGHT	Kg	140	155	175	240
DIMENSIONS	cm	66x120x151			85x150x198

* 500 V upon request

(*) without packaging - packaging weight = 18 Kg



1.9 Warranty

DEPURECO guarantees this model for 12 months from the date of purchase indicated in the receipt upon delivery of the product from the dealer.

The warranty is null and void in the event that the vacuum is repaired by unauthorised third parties, equipment, accessories or components not supplied or not authorised by DEPURECO are used or the serial number is removed (during the warranty period).

During the warranty period, DEPURECO undertakes to repair or replace free of charge parts and components, which prove to have manufacturing defects.

Repairs are made solely at our premises or in specific Service centres and must be delivered ex works (transport costs are charged to the purchaser, unless otherwise agreed upon).

The warranty does not cover cleaning of operating elements.

The purchase receipt must be shown to the authorised technical personnel carrying out the repair and must accompany the vacuum during its shipment.

Defects that are not evidently due to materials or manufacturing will be examined solely at our premises or at a specific Technical Service Centre.

Should the complaint be unjustified, all repair and/or replacement expenses shall be charged to the purchaser.

In any event, the following are not covered by warrantee: accidental damage due to transport, negligence, abnormal use, improper use, non-compliance with the instructions contained in this booklet or arising from phenomena that do not depend on normal use/operation of the vacuum.

DEPURECO shall not be held liable for any injuries to persons or damage to objects caused by misuse or improper use of the vacuum.

Any dispute will be heard by the Court of Turin (Italy).



Protect your purchases by joining the exclusive "warranty plus" program
Go to www.depureco.com , fill in the form to extend the warranty up to 24 months.



***In case of doubt, do not interpret!
Call immediately your dealer!***



2. SAFETY SECTION

2.1 Information on safety



In compliance with Italian Legislative Decree 81/08 and subsequent additions and amendments, the Safety Manager is obliged to educate, inform and train workers on the risks related to the use of the vacuum, in order for them to be able to protect their own and others' safety.

Failure to comply with basic safety standards and precautions can cause accidents during use, maintenance and repairs of the vacuum. Accidents can frequently be avoided by recognising potentially hazardous situations before they occur. Adequate training is crucial to this end.

DEPURECO shall not be held liable for accidents or damage due to the improper use of the vacuum by untrained personnel or to failure to comply, even partially, with the occupational safety standards and intervention procedures contained in this manual.

Safety warnings and precautions are indicated in this manual as well as on the product itself. Operators must pay special attention to these hazard warnings to prevent accidents with serious consequences for themselves and other people.

Safety messages are emphasised by the following symbol:



Attention!
Failure to comply with these messages can cause injuries to the operator.



Attention!
Failure to comply with these messages can cause damage to the vacuum.



Attention!
Failure to comply with these messages can cause damage to the environment.

DEPURECO designs and manufactures its equipment and accessories with care, identifying and compensating possible risks related to their use. In the event that equipment, procedures, work methods or techniques not expressly provided for by DEPURECO are used, it is crucial to ensure beforehand that there are no dangers for oneself and the others, notwithstanding that DEPURECO shall not be held liable.



Use only original DEPURECO replacement parts

Depureco declines all responsibility
for the use of non-original spare parts.



2.2 Safety requirements



Attention!

The indications below are important to prevent hazards that can occur while operating the vacuum. However, they cannot replace the expertise and common sense of the operators as an overall framework for accident prevention.

Every section lists further safety requirements specific for the various operations.

CAUTION!

- This vacuum can only be used by adequately trained adults.
- This vacuum is suitable for industrial use, such as: factories, warehouses, workshops.
- The equipment must be electrically connected to a mains equipped with efficient earthing.
- Always lock the vacuum by means of the lock located on the swivel caster during vacuum operation.
- This vacuum is not intended to be used in corrosive or explosive environments.
- Keep the vacuum clear from foreign bodies, such as debris, oil, tools and other objects that could damage its operation and cause injuries.
- Avoid using flammable or toxic solvents, such as petrol, benzene, ether and alcohol for cleaning operations.
- Avoid prolonged contact with solvents and inhaling their vapours.
- Avoid using it in the proximity of naked flames or heat sources; ensure suitable ventilation.
- Do not, under any circumstance, use the vacuum without filter.
- Do not vacuum lighted cigarette butts: they could burn the filter.
- Do not vacuum petrol or flammable liquids in general.
- Ensure that all the guards and protection devices are in place and that all the safety devices are properly installed and efficient.
- Do not use the vacuum on sloping or uneven floors.
- Do not wear loose or baggy clothing, such as ties, scarves, ripped clothes that could get easily caught or trapped in the vacuum.
- Do not open the refuse collection container while the vacuum is operating.
- Do not, under any circumstance, place your hands between the refuse container and the vacuum while locking it.
Lock the container in place by means of the dedicated lever, using BOTH HANDS.



- Do not move the vacuum by pulling the power cord.
 - Extensions, press-fit plugs and adapters are prohibited.
 - It is prohibited to use the vacuum on operating machines.
 - Do not climb on the vacuum.
 - Do not touch electric wires, switches, buttons, etc., with wet hands.
 - Periodically verify the integrity of the power cord.
 - While using the industrial vacuum, some components can reach 116 °C, e.g.: motor terminal block, motor body.
 - During the operations to restore original work conditions, the personnel in charge must ensure at the end of the procedure, normal operating and safety conditions of the vacuum and, in particular, of the safety devices and protective guards involved in the operation.
 - In the event that the Customer installs a tool not supplied by DEPURECO on the vacuum, it is essential to verify that the safety requirements of Machinery Directive 2006/42/EC are met, notwithstanding that DEPURECO shall not be held liable for problems caused by the use of that part.
 - Structural damage, alterations or improper repairs can modify the protective capacity of the vacuum, thereby nullifying this certification and releasing DEPURECO from any liability.
 - This manual must always be kept at hand for consultation on the operating cycle and for clarifying any doubts.
- In the event it is lost or damaged, request another copy from DEPURECO.



Attention!

This vacuum can contain harmful dust.

Emptying and maintenance procedures, including the disposal of the dust collection containers, must be carried out only by specialised personnel wearing suitable personal protective equipment.

Do not activate without a complete filtering system.



2.3 Safety plates and symbols

Plates with safety symbols and messages are applied to the vacuum and its packaging. These pages show their precise location and the nature of the hazard.



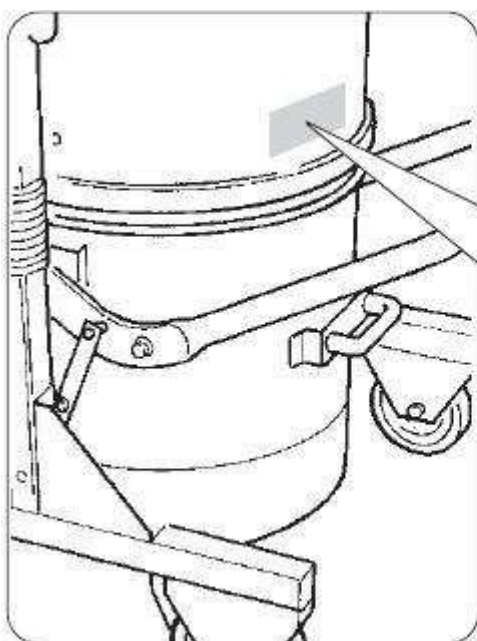
Attention!

Ensure that all safety messages are perfectly legible.

Clean using them a cloth with water and soap. Do not use solvents, naphtha or petrol.

Replace damaged plates requesting them from DEPURECO.

In the event that a plate is located on a piece that is replaced, ensure that a new plate is affixed to the new piece.

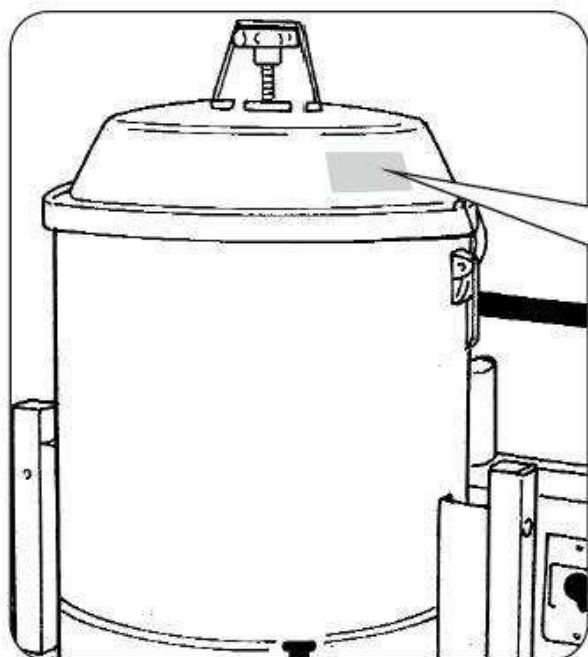


Attention!

Upper limb crushing hazard while inserting and locking the refuse container in place under the vacuum.

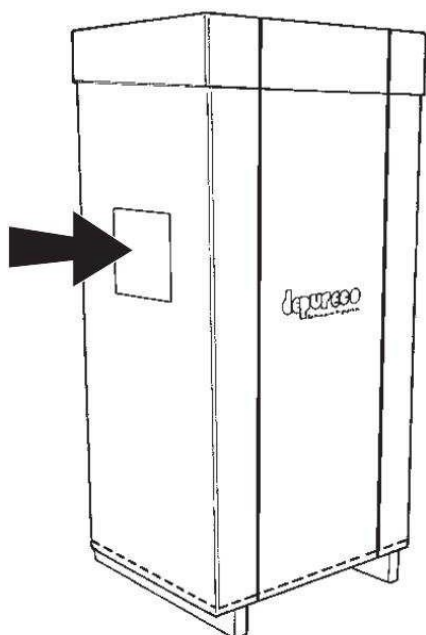
Never place your hands between the vacuum and the refuse container while inserting and locking the refuse container in place under the vacuum.

Lock the container in place by means of the dedicated lever, using **BOTH HANDS**.



Attention!

Carefully read this use and maintenance manual before using the vacuum or carrying out maintenance interventions.



Attention!

Carefully read the instructions on the packaging before handling and unpacking the vacuum.



2.4 Residual risks

The accurate risk analysis carried out by DEPURECO (archived in the technical file) has allowed eliminating the main risks related to the conditions of use of the vacuum.

DEPURECO recommends complying with the instructions, procedures and recommendations in this manual and with the safety standards in force. DEPURECO also recommends using suitable personal protective equipment as well as the protection devices integrated in the vacuum.

The residual risks analysed on the vacuum and/or its components can be:

Electrical risks during maintenance on live parts

Pursuant to Italian Legislative Decree 81/08 – articles from 80 to 87 – it is prohibited to operate on live parts, notwithstanding the exceptions set forth by said Legislative Decree.

Risk of improper use in presence of liquid, explosive and flammable substances

The vacuum must not be used in environments containing liquid substances or liquids that can evaporate at room temperature, flammable powders and gas.

Risks related to operation in humid environments

Comply with the limitations indicated in this manual, in section 1.6 “Allowed environmental conditions”.

Upper limb crushing hazard while inserting the refuse container under the vacuum.

A safety pictogram on the vacuum warns about this hazard.

This hazard can be prevented by locking the container under the vacuum by means of the dedicated lever, using **both hands**.

See “Chapter 2.3” for the precise meaning of the safety plates.

Risks of misinterpretation of safety pictograms

With reference to risk analysis and identification, DEPURECO has installed hazard labels on the vacuum, in compliance with the standard concerning graphic symbols.

The user must immediately replace any safety plate made illegible due to wear or damage.



Attention!

It is strictly prohibited to remove the safety plates from the vacuum and/or its components and packaging.

DEPURECO shall not be held liable for the vacuum's safety in the event of failure to comply with this prohibition.

2.5 Applied Directives

The following Directives apply to the vacuum described in this manual:

- 2006/42/EC Machinery Directive
- 2014/30/EU Electromagnetic Compatibility Directive

Reference standards, including their binding requirements, are managed through the DEPURECO Quality and Environmental Management System.



3. HANDLING, UNPACKING AND INSTALLATION SECTION

3.1 Handling

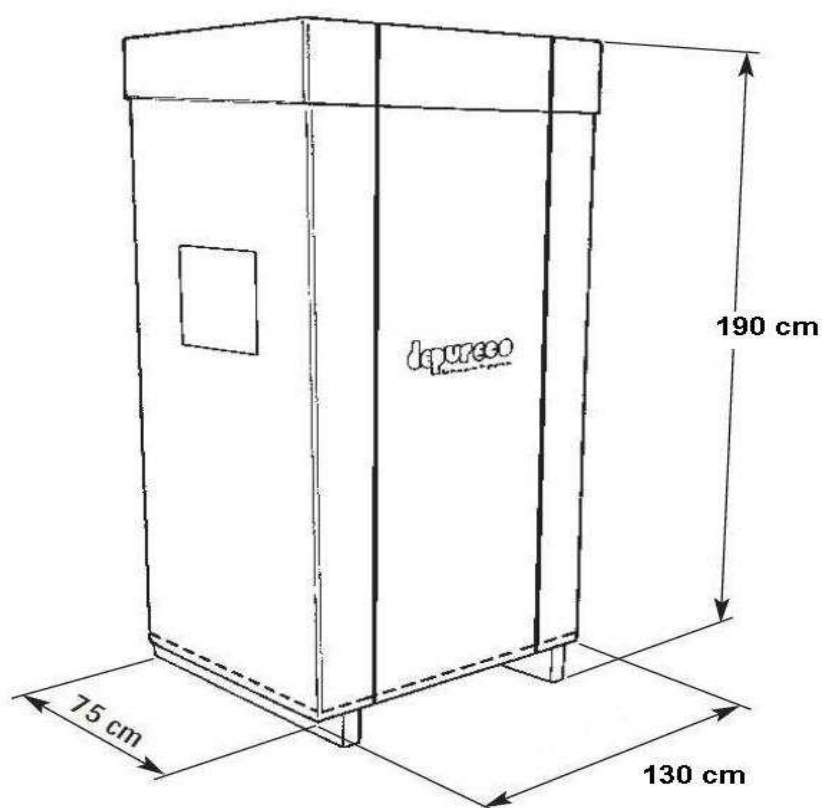


Attention!

The instructions for transporting and unpacking the vacuum correctly are shown also on the packaging.

The instructions below also include the operations to be carried out in the event that the vacuum must be packed or unpacked again for subsequent transport.

Dimensions of the packed vacuum.



The vacuum must be lifted and handled only using a forklift whose load bearing capacity is suited to the weight.

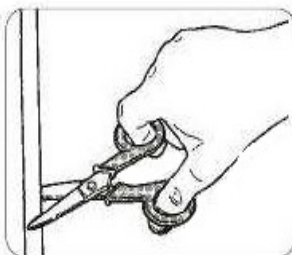
When using a forklift, lift the load 200 mm off the ground and swing backwards.

Always keep the height of the working environment in mind when lifting loads.

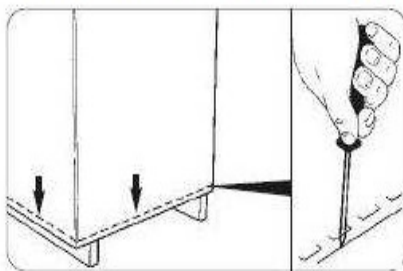
Before starting any movement, ensure that the area is cleared and that there are no moving objects on the packaging. For lifting and handling operations, comply with the occupational safety standards in force and with the normal forklift driving instructions.



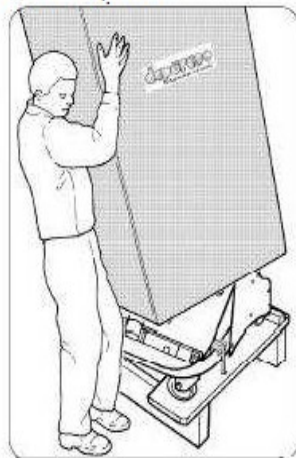
3.2 Unpacking



- Cut and remove the two fastening straps from the case

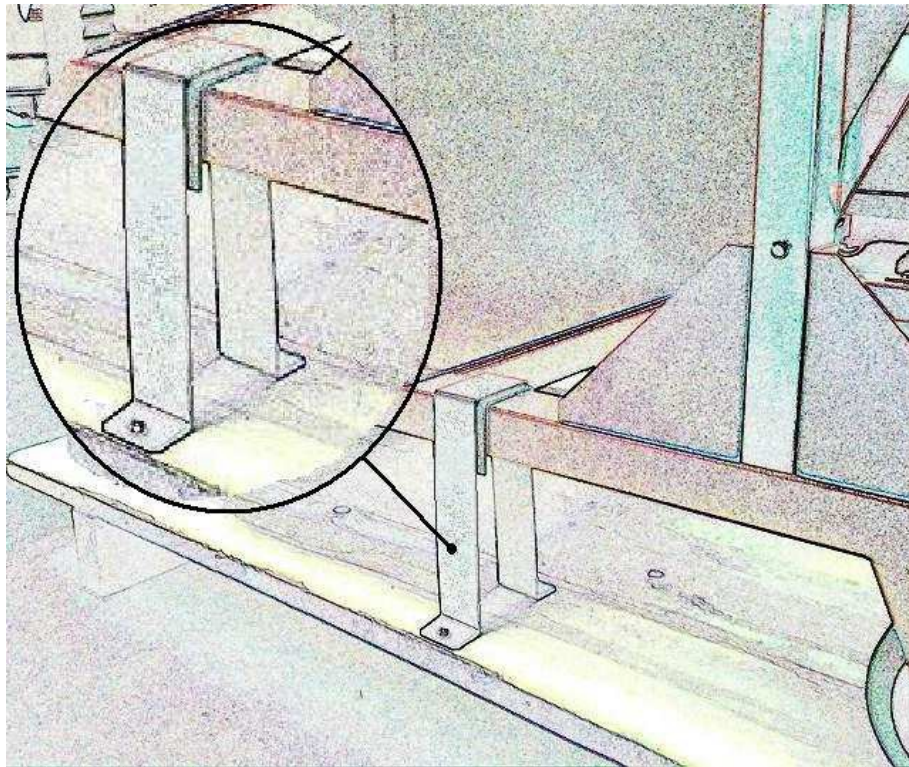


- Using a screwdriver, remove the points that fix the cardboard case to the pallet



- Completely remove the case

- loosen and remove off both sides the fastening screws and brackets



The cardboard packaging is recyclable and should be collected separately to prevent environmental impact.



Attention!
Keep the pallet and the fastening brackets.
In the event of subsequent transport, the vacuum must be secured to the pallet using the same fastening system.

3.3 Installation

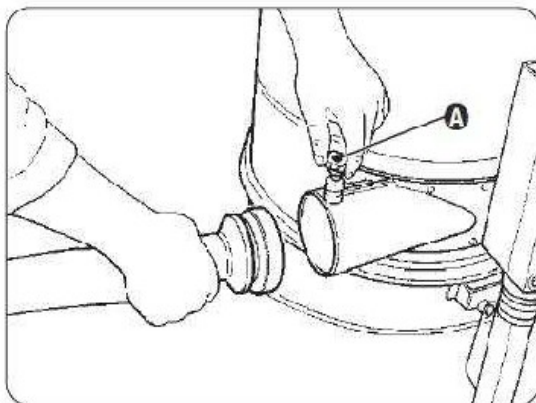


Warning!
Before installing the vacuum, it is important to carry out a thorough preventive visual inspection to identify any damage occurred during transport.

In the event that one or more components are damaged, do not continue with installation and inform DEPURECO about the anomaly and agree upon the actions to be taken.

The vacuum is already equipped with a suction filter, which allows extracting only dry dust or debris.

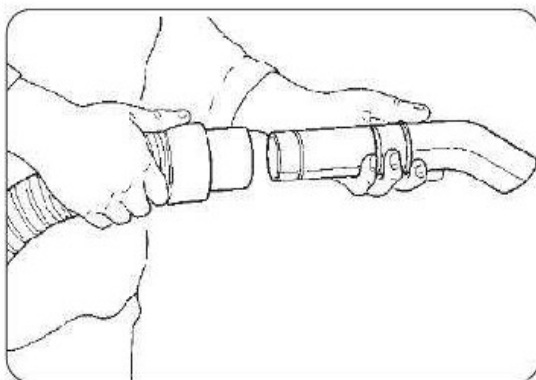
- Lift the knob (A) and insert the hose equipped with end fitting in the suction inlet, releasing the knob.



- Insert the accessory according to the type of extraction on the opposite side of the hose.

Note: the hose and its fittings and accessories are not included in the standard supply

B



Contact your dealer (or DEPURECO) for information regarding the various types of OPTIONAL that can be used on this specific model.

The following operation must be carried out by a qualified electrician.

Ensure that the power supply line corresponds to the voltage and frequency indicated on the identification plate and that it is efficiently earthed.

DEPURECO ASPIRAZIONE INDUSTRIALE				C.so Europa, 10 - 10088 Volpiano Tel. 011 985 1117 - Fax. 011 985 93 26 MADE IN ITALY	
Mod.			Volt		
Serial N°	kW	Amp	Hz		
Dust class	IP	Kg	Year		

The socket to power the vacuum must be protected by a mains disconnect switch in compliance with EC standards.
 Insert the plug (standard supply) into the socket.



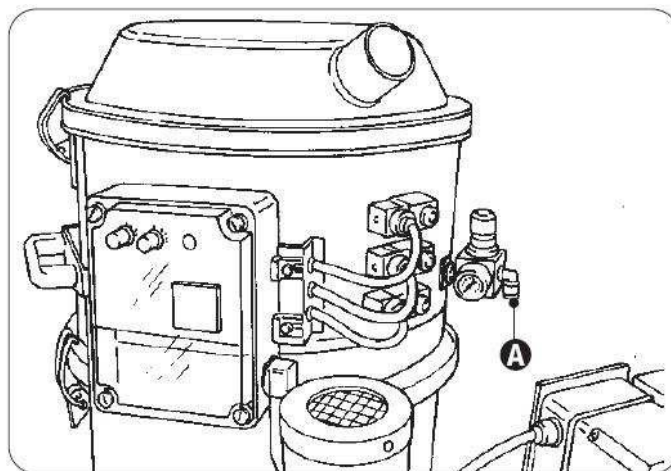
Attention!
So not insert the plug into the socket with wet hands.
The use of extensions is not allowed.

Pneumatic connection supply - only for vacuums equipped with compressed air filter cleaning system

Connect to the fitting (**A**) indicated in the figure.

The required pneumatic supply is max. 5 bar.

To ensure proper operation, the air introduced into the vacuum must be dehumidified.



If necessary, contact the DEPURECO customer service for further information.

4. OPERATION SECTION

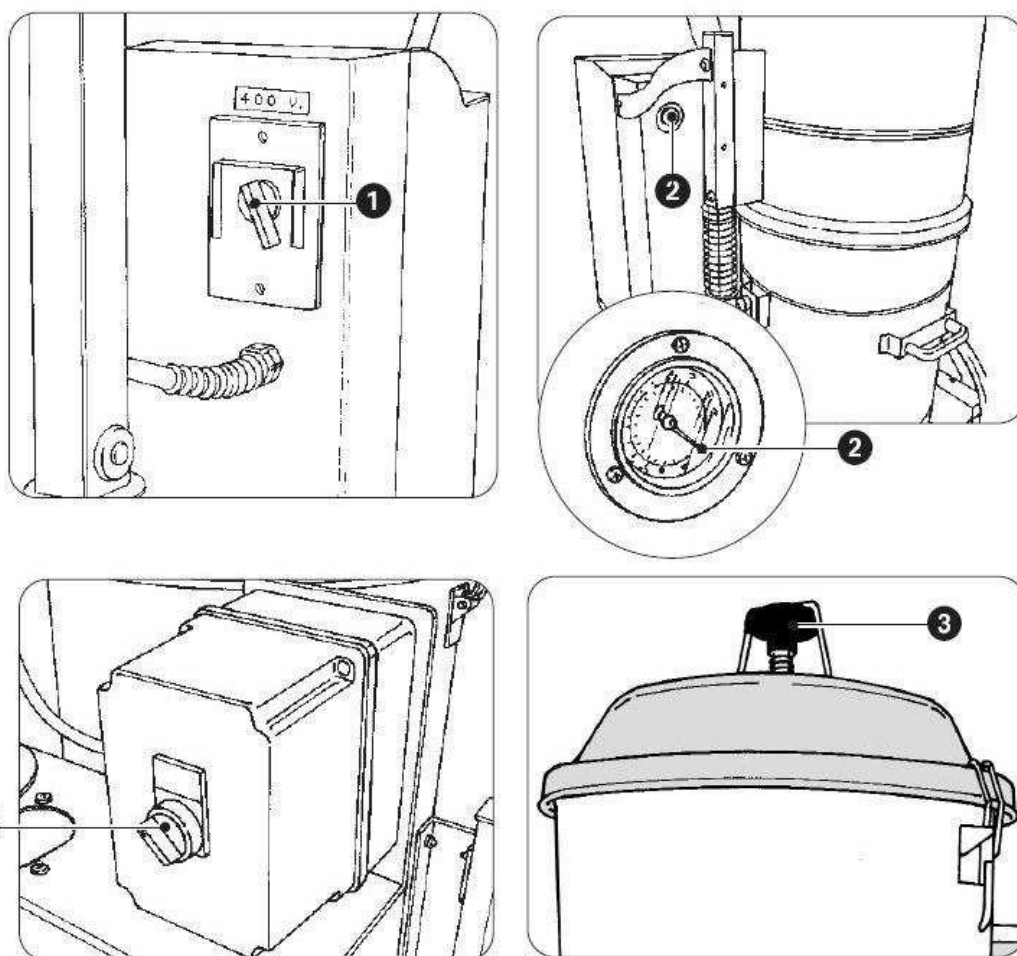
4.1 Description of the controls



Attention!

The vacuum can be used solely by authorised personnel after having read these use and maintenance instructions.

The user of the equipment and the maintenance technician, who carry out interventions on the vacuum, must be adequately educated, informed and trained, in compliance with the occupational safety standards in force and, during the various operations, must wear personal protective equipment (PPE), such as safety footwear, gloves, protective goggles, mask, etc. The user must comply with the provisions in force concerning extracted materials and their disposal.



1 = ON-OFF switch

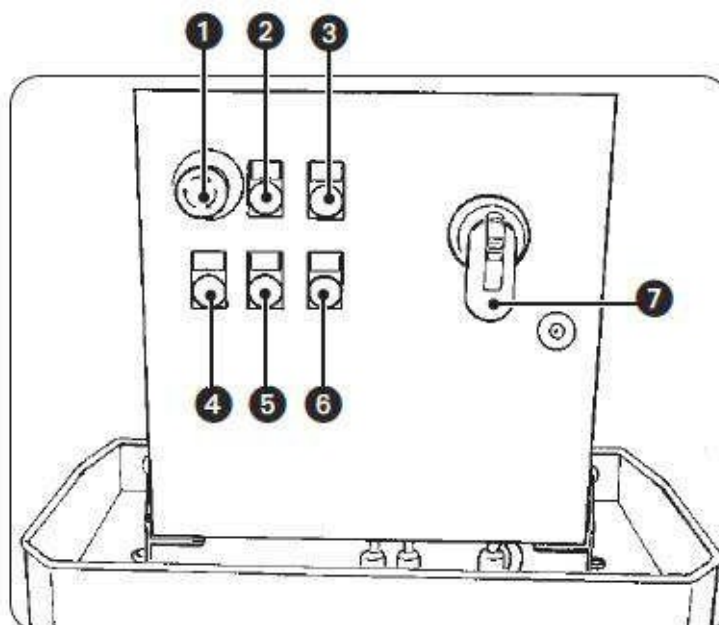
2 = Vacuum meter: indicates suction filter clogging

3 = Manual knob (filter shaker)

4 = manual/automatic Compressed Air Filter Cleaning selector



FOX 10 control panel



1. Red mushroom EMERGENCY button
2. Red EMERGENCY indicator light
3. White VOLTAGE PRESENCE indicator light
4. red STOP button
5. Green START button
6. yellow MOTOR THERMAL RELAY indicator light
7. ON/OFF main switch

4.2 Operating cycle

Ensure that the power cord is intact and in perfect state.



Attention!

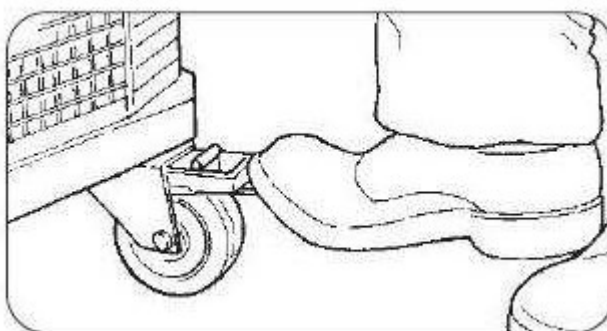
Before inserting the plug, ensure that the voltage of the power supply line corresponds to that indicated on the identification plate.

Ensure that the power plug is inserted correctly into the socket.

Ensure that the hose is inserted properly and locked into the suction inlet.

Ensure that the refuse collection container is properly locked to the vacuum.

Block the vacuum using the brake on the swivel caster, as shown in the figure.

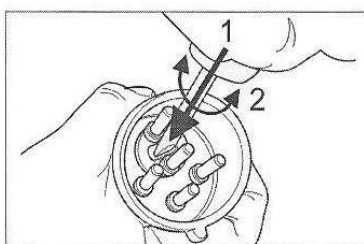


Attention!
Do not shift the vacuum while it is operating.

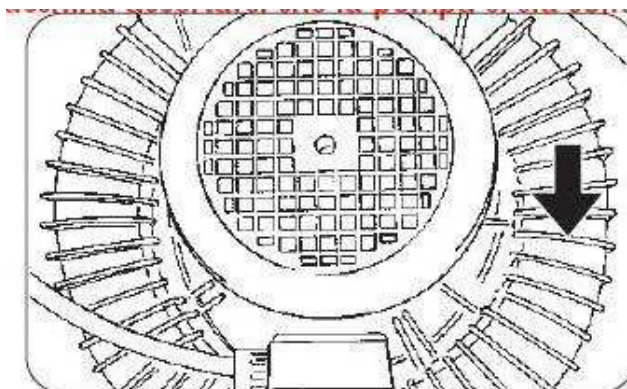
Hold the end of the hose with the chosen accessory.

Turn the main switch (1) to “I” and start vacuuming.

If, upon switching the machine on, the hose blows instead of vacuuming, switch the machine off by turning the main switch to “0”, unplug it and reverse the pins on the plug using the dedicated inverter (not valid for FOX 10).



The rotation direction must be that indicated by the arrow in the figure.



Warning!
Before turning the vacuum on again, ensure that the pump has fully stopped.

Upon completing this operation, turn the main switch (1) to “0”



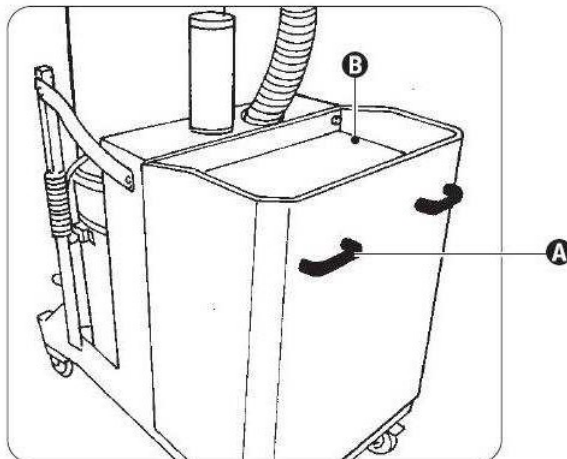
Attention!
Dust coming out from the vacuum can indicate a broken filter.
In this case, stop the vacuum immediately and verify the cause.



For any emergency, turn the main switch (1) to “0”

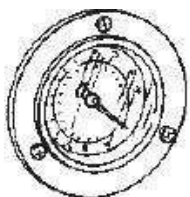
Use the handles (A) to move the vacuum – see figure

For greater practicality, the accessories used more frequently can be located in the dedicated accessory compartment (B).



Warning!

During operation, prevent the hose from rolling up or bending



A vacuum meter is installed on the side of the vacuum to indicate the level of negative pressure inside the vacuum. The vacuum meter indicates the condition of the filter: an increase in negative pressure indicates increased filter clogging, with a reduction of the suction power as a result.

When the filter is clogged, the vacuum meter indicates the value shown in the table below. In this case, stop the machine and shake the filter.

Model	Clogged filter value	
FOX 3	- 0.23 bar	- 23 kPa
FOX 5,5 P	- 0.36 bar	- 36 kPa

Model	Clogged filter value	
FOX 5,5 S	- 0.13 bar	- 13 kPa
FOX 7.5 P	- 0.40 bar	- 40 kPa
FOX 7.5 S	- 0.20 bar	- 20 kPa
FOX 10	- 0.30 bar	- 30 kPa



Warning!

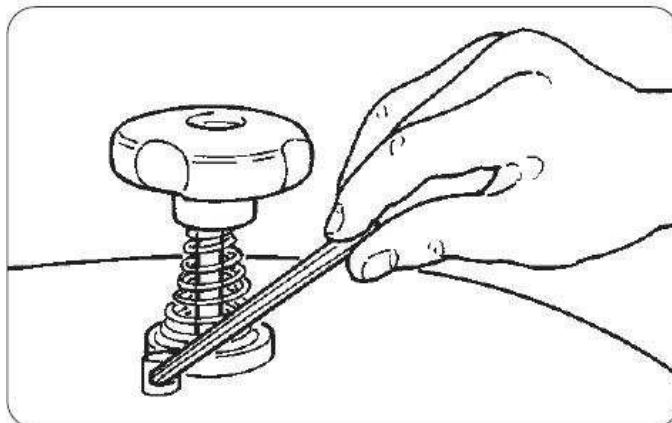
Do not, under any circumstance, use the machine with a clogged filter.



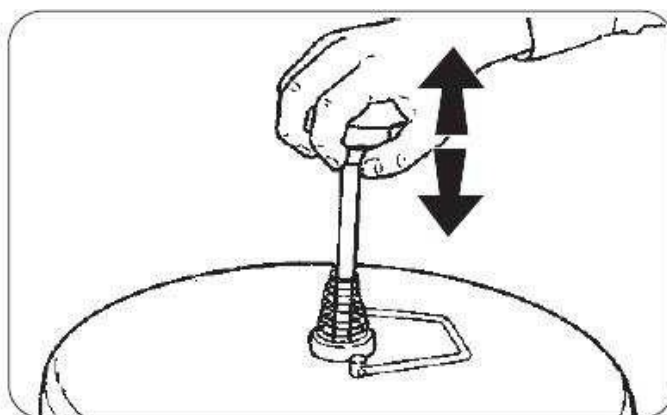
To clean the filter, proceed as follows:

Switch the machine off by turning the main switch (1) to “0”

- lower the lever that locks the knob located on the upper cover.



- lift and lower the lever energetically to shake the internal filter.



- lock the knob again, lifting the lever and continue vacuuming.



Warning!

In the event that the vacuum still indicates an irregular negative pressure, it can mean that the hose or the suction accessory are clogged. In this case, clean it, removing the cause of the clog.

Vacuum with rotational filter shaker

In the event that the vacuum is equipped with rotational filter shaker, the filter is automatically cleaned upon switching the vacuum on and off.



Vacuum with compressed air filter cleaning system (CCA)

The vacuum must be connected to a compressed air supply with a maximum 5 bar pressure, through the dedicated regulator filter (see § 3.3 of this manual).

The filtering cartridges are automatically cleaned while vacuuming.

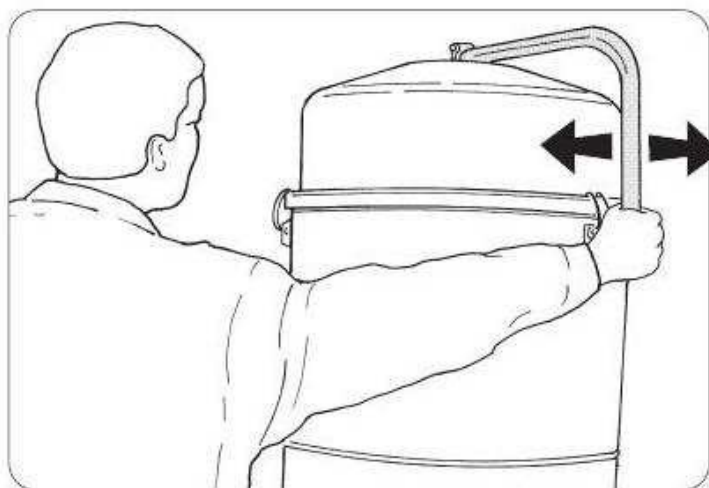
We recommend manually activating the ACC system every 40 hours for further cleaning of the filtering cartridges. In this case:

- turn the vacuum off
- ☞ turn the CCA selector (4) to manual (see § 4.1 of this manual)
- wait for 5 minutes and then bring the CCA selector (4) back to automatic
- restart the vacuum.

To clean the FOX 10 filter, proceed as follows:

Switch the machine off by turning the main switch (1) to “0”

Shake the filter by moving the lever energetically to the right and to left, as shown in the figure



Attention!

If the vacuum is not working properly after having cleaned the filter, it can mean that the filter is clogged and needs to be replaced.



4.3 Emptying the refuse container

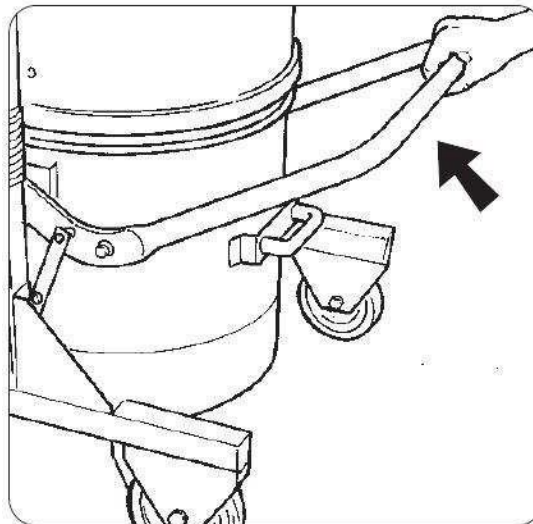


Attention!
Wear PPE (gloves, dust mask, goggles, etc.) during this operation

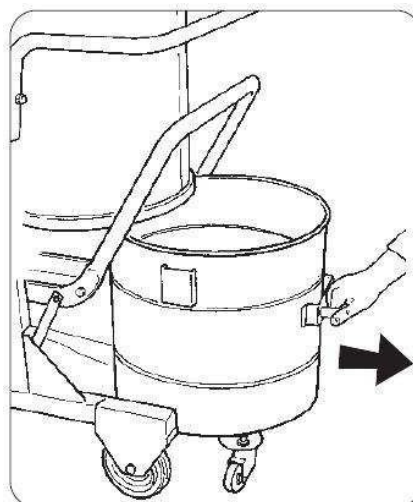
According to the amount and type of extracted material, it is important to periodically verify the refuse container, preventing it from filling up excessively.

To empty the container, proceed as follows:

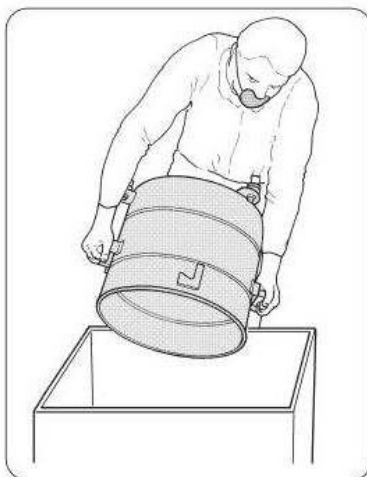
- switch the machine off by turning the main switch (1) to "0"
- as previously mentioned, the vacuum is locked by the lever located on the swivel caster
- unlock the container by lifting the lever



- remove the container from the vacuum, using the handle



- empty the debris in the dedicated container and dispose of it in compliance with the standards in force in the country of use



In the event a plastic bag is used to collect the refuse:

- upon removing the container
- tie the bag



- remove the bag
- insert a new bag.



Attention!

In the event that the container (or the bag) weighs over 15 Kg, have somebody help you. A special drum lifting kit is available for significant loads: you can request it from DEPURECO.



Attention!

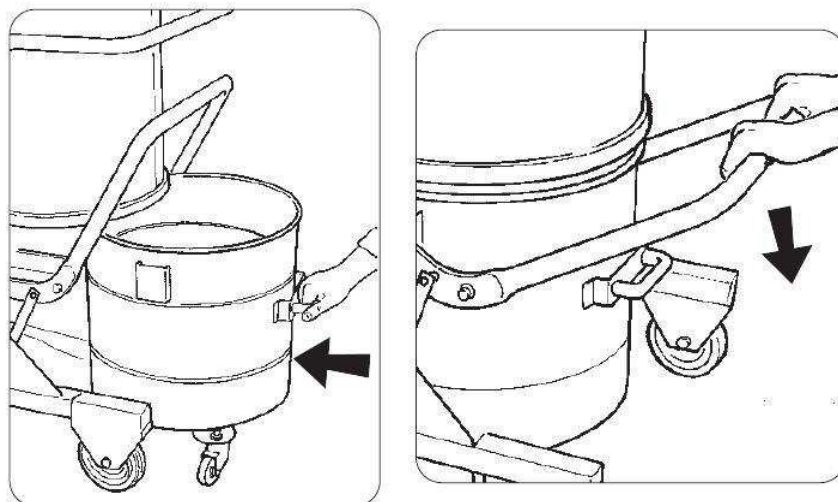
Waste must be disposed of in compliance with the standards in force in the country of use – for Italy with Legislative Decree 152/2006 and subsequent amendments and additions.

In the event of use with class M and H dusts, these must be conveyed to a special plastic bag.

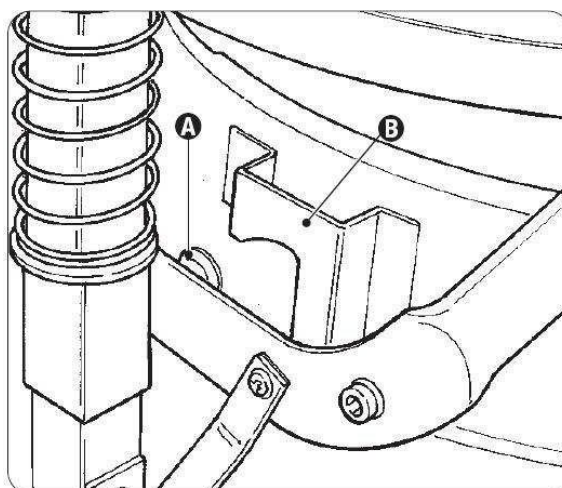


4.4 Inserting and locking the refuse container

- Insert the container under the vacuum
- fully lower the lever that locks the container **using both hands**.



The pins (A) on both sides must be aligned to the eyelets (B).



Attention!
Upper limb crushing hazard!

Do not, under any circumstance, place your hands between the container and the vacuum while locking it.

4.5 Storage - decommissioning

Remove the filter and clean it; empty the refuse collection container and store the vacuum in a place protected against weather agents with the temperature ranging between 5 and 45 °C and cover it with a nylon tarp to protect it against dust.



5. MAINTENANCE SECTION



Attention!

Special vacuum maintenance must be carried out solely by specialised technicians authorised by the DEPURECO dealer.

5.1 Information notes

This section describes the verifications and routine maintenance operations required to ensure proper vacuum operation.

Maximum reliability and minimum maintenance costs are the result of a planned maintenance and inspection schedule carefully followed throughout the entire lifespan of the vacuum.

Observe the set maintenance intervals and schedule the interventions according to specific requirements in relation with the vacuum production cycle.

Always use tools that are in perfect state and that are specifically intended for the operation to be carried out; the use of inadequate or inefficient tools can cause serious damage.

Any other intervention required to eliminate faults or malfunctions must be expressly authorised by the manufacturer.

In these cases, always communicate the vacuum identification data - see para 1.4 of this manual.

For important repairs, refer to the authorised dealer, whose specialised personnel has the technological expertise and is always available for prompt interventions.

As for interventions carried out by the user, the vacuum must be disassembled, cleaned and maintained, where possible, in such a way as to prevent hazards to the maintenance personnel and to third parties. Suitable precautions include decontamination prior to disassembly, forced filtered ventilation of the room where the equipment is disassembled, cleaning the maintenance area and wearing suitable personal protective equipment.

In order to prevent dust dispersion, before taking a class M vacuum out of a hazardous zone, its external parts must be:

- decontaminated by vacuuming methods - using a vacuum of the same or higher class
- washed, passing a damp cloth over its surface, and
- treated with sealing means.

Once every three months (or more frequently, according to the operating cycle and the conditions of use), the manufacturer or a qualified technician must verify the filters, ensuring that they are not damaged, the tightness of the air system and proper operation of the control devices.

Should maintenance operations or repairs be carried out, all contaminated objects must be adequately cleaned, placed in waterproof bags and disposed of in compliance with the standards in force.



5.2 General safety regulations



Attention!

All the operations described above must be carried out with the plug disconnected from the socket (and the air disconnected from the CCA system).

Before starting any maintenance or cleaning operation, wear suitable PPE (protective clothing, goggles and/or gloves, etc.) according to the work to be done.



Place a sign on the vacuum with the message:

**“MACHINE UNDER MAINTENANCE
DO NOT START”**

Before resuming operation, verify the entire system according to start-up procedures. Run a few trial operating cycles after every maintenance operation to ensure proper machine operation.



Failure to comply with these precautions can cause serious injuries to the personnel.

Maintenance operations must be carried out by trained technicians specialised in the following sectors:

- Mechanical maintenance
- Electrical maintenance

It is the Safety Manager's duty to ensure the professionalism and skills of these technicians.

Before starting any maintenance operation, the Safety Manager must:

- Keep unauthorised personnel out of the work area.



 Ensure that the necessary tools are in good conditions and readily available to the maintenance technician.

 Ensure that the maintenance technician is equipped with the personal protective equipment required for the specific operation (gloves, goggles, shoes, mask, etc.).

 Ensure that the maintenance technician has carefully read the instructions contained in this manual and knows the operation of the vacuum and its components perfectly well.

- Ensure that there is enough light and, if necessary, provide 24 Volt torches.

Before starting any maintenance operation, the Maintenance technician must:

- disconnect all power supplies and safely lock the vacuum and
- disconnect the compressed air supply (where available).



Attention!

Should it be absolutely necessary to operate with the power supply on, where provided by Italian Legislative Decree 81/08, the maintenance technician must keep a safety distance, have the emergency stop buttons at hand and must never place his hands between the refuse container and the vacuum.

Upon completing the intervention and before starting up again, the maintenance technician must verify the efficiency of the safety devices and the integrity of the protective guards.

Interventions on the motors or on other electrical components must only be carried out by the specially trained electrical maintenance technician authorised by the Safety Manager.



Attention!

After every maintenance operation, the Safety Manager is obliged to ensure the safety conditions of the vacuum and its protection devices.

Before every work shift

- Ensure that the power cord and plug are not damaged: replace the power cord immediately at the slightest sign of wear with one of the same type (refer to DEPURECO for information). This operation must be carried out only by a qualified electrician.
- Ensure the integrity of the safety symbols (pictograms) applied to the vacuum.
- Ensure that the refuse collection container is empty and properly locked under the vacuum.
- Ensure the efficiency of the filter by means of the vacuum meter.
- Ensure the integrity of the suction hose and of the accessories to be used.



Attention!

A perforated hose reduces suction power and disperses dust in the air.

5.3 Replacing the filter

To replace the filter, proceed as follows:

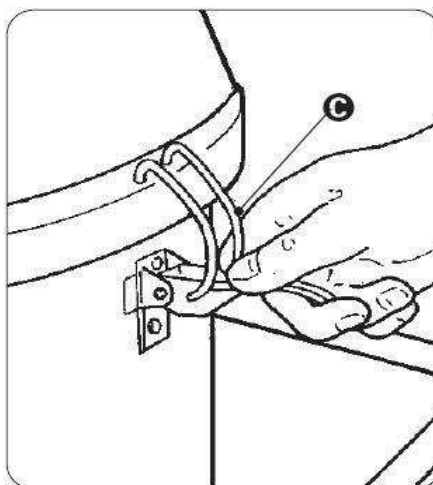
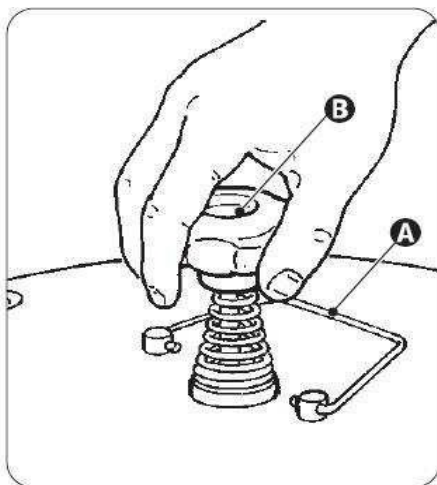
1. switch the machine off by turning the master switch (1) to “O”
2. disconnect the vacuum plug from the socket (and the air for the CCA system)



Attention!

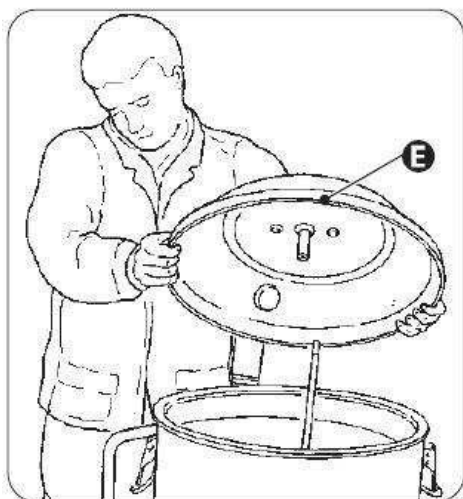
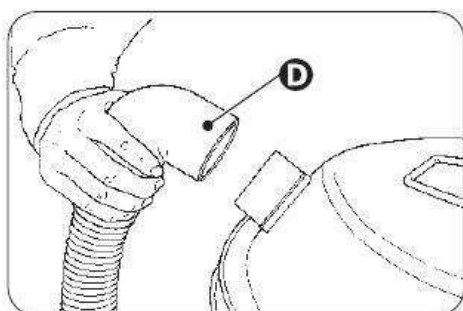
Wear appropriate PPE (dust mask, latex gloves, goggles, etc.).

3. lower the lever (A), loosen and remove the knob (B)
4. release the two latches (C) of the cover from both sides

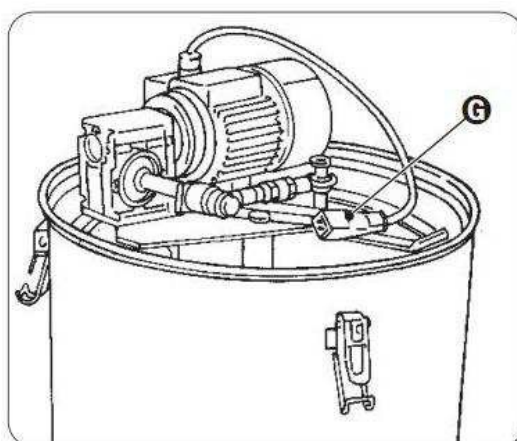




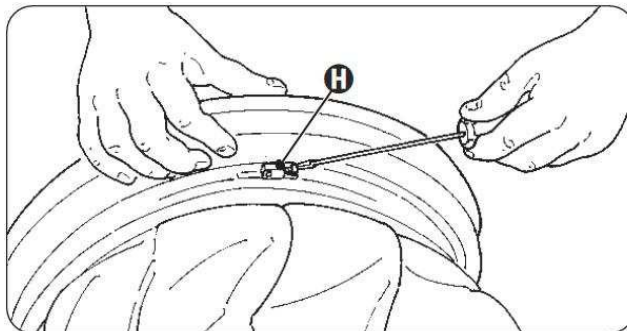
5. detach the suction hose (**D**), using a hex key to unscrew the clamp
6. remove the cover (**E**)



7. remove the filter (**F**) and place everything on a worktop
8. if the vacuum is equipped with a rotational filter shaker, the plug (**G**) must be disconnected after removing the cover (**E**)



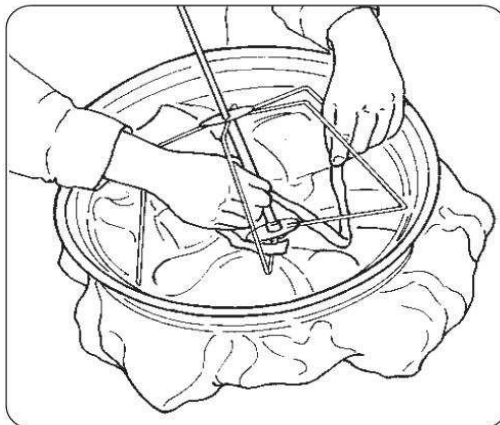
9. remove the fastening clamp (**H**); detach the filter from its support and use a pair of scissors to cut the inner wires that lock it.



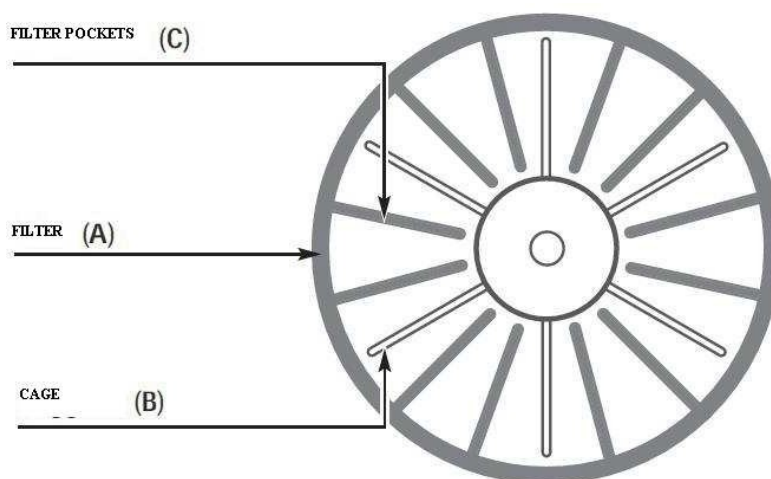
10. remove the filter, place it inside a plastic bag, close it and **dispose of it in compliance with the laws in force**, according to the extracted material.

To assemble the new filter, proceed as follows:

1. insert the filter into its support ring, locking it by means of the fastening clamp (H)



2. secure the filter to its support cage by means of the wires
 3. for the automatic rotational shaker, the filter (A) must be installed by inserting 2 pockets (C) in every single space in the filter support cage (B)
- Note:** the spaces in the filter support are 6 and the filter pockets are 12.



4. insert the filter and its support (F) into the vacuum.



5. insert the upper cover (E) on the vacuum
6. insert the upper cover, paying attention to the position of the suction inlet, which must be in direction of the hose (D)
7. lock the two fastening latches (C)
8. connect the hose (D)
9. connect the compressed air to the valve fitting (A) – see paragraph 3.3
10. connect the power supply
11. turn the vacuum on, verifying its operation.

5.4 Replacing the filter cartridge (optional CCA) (Every 500 hours of vacuuming)

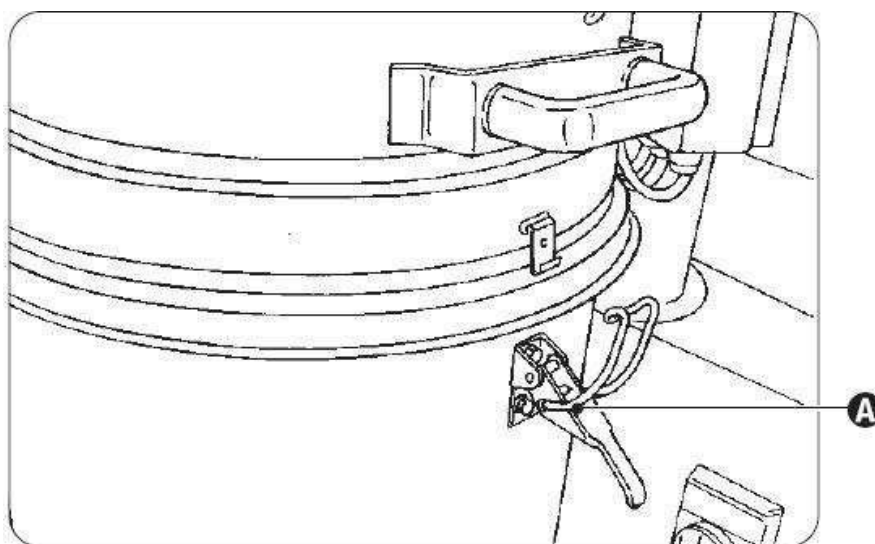
To replace the filtering cartridges, proceed as follows:

1. switch the machine off by turning the main switch to “0”
2. unplug the vacuum
3. disconnect the compressed air from the valve.

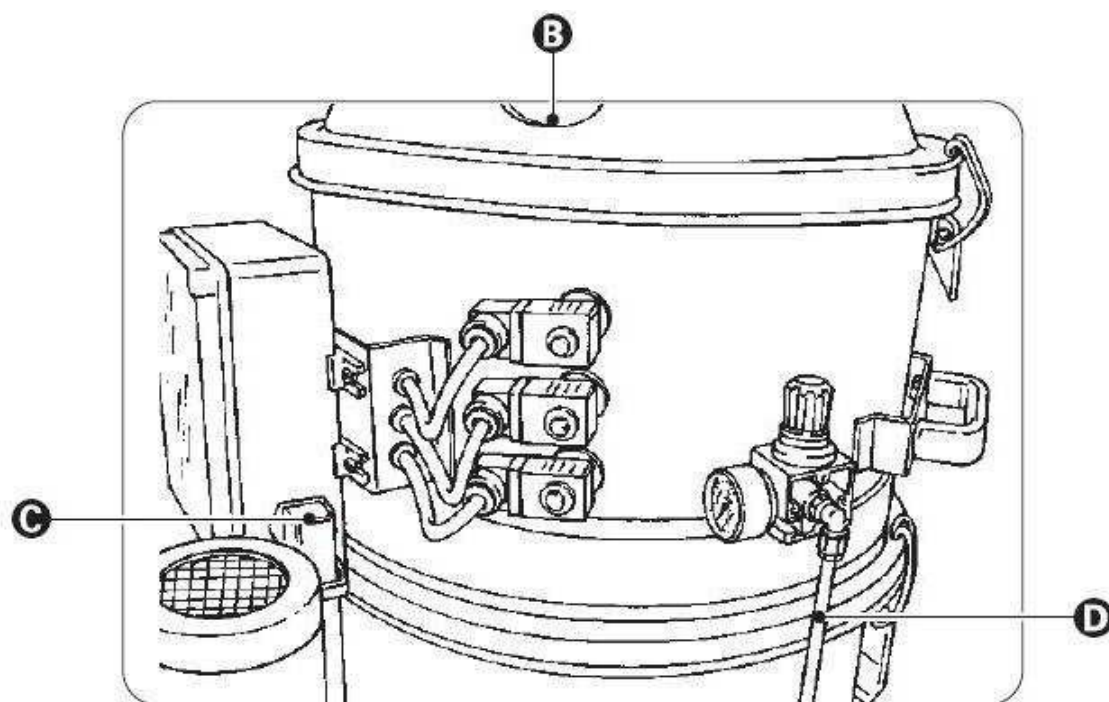


Attention!
Wear appropriate PPE (dust mask, latex gloves, goggles, etc.).

4. unlock the two latches (A) on both sides



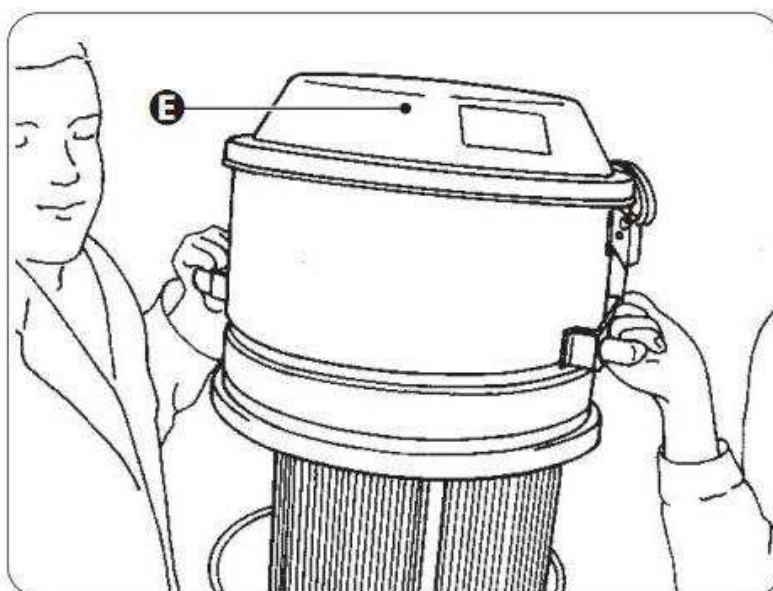
5. disconnect the suction fitting (B)
6. disconnect the plug (C)
7. connect the pneumatic supply pipe (D)



8. remove the upper cover (E) equipped with filtering cartridges.

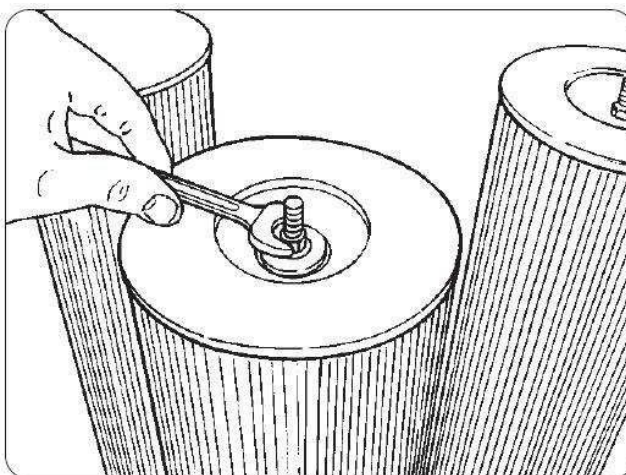


Attention!
This operation must be carried out by two persons.

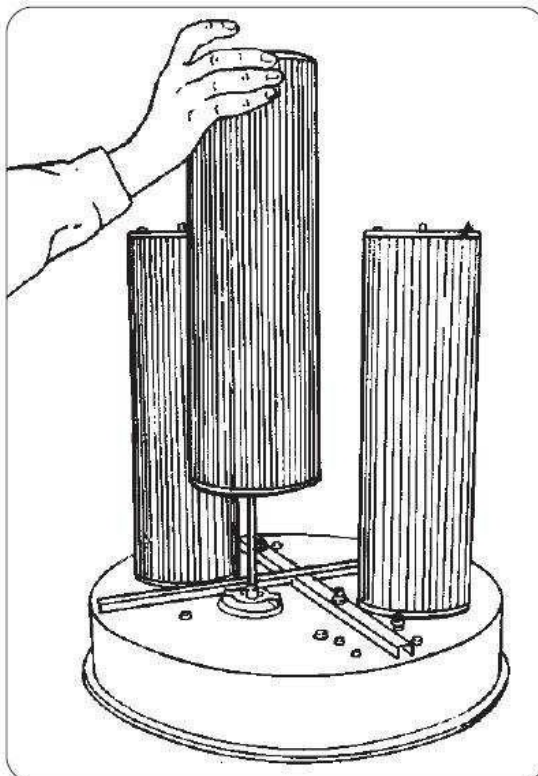


9. place the cover upside-down on a worktop

10. unscrew and remove the nuts to release the single cartridges



11. remove and replace the filtering cartridges with others having the same characteristics



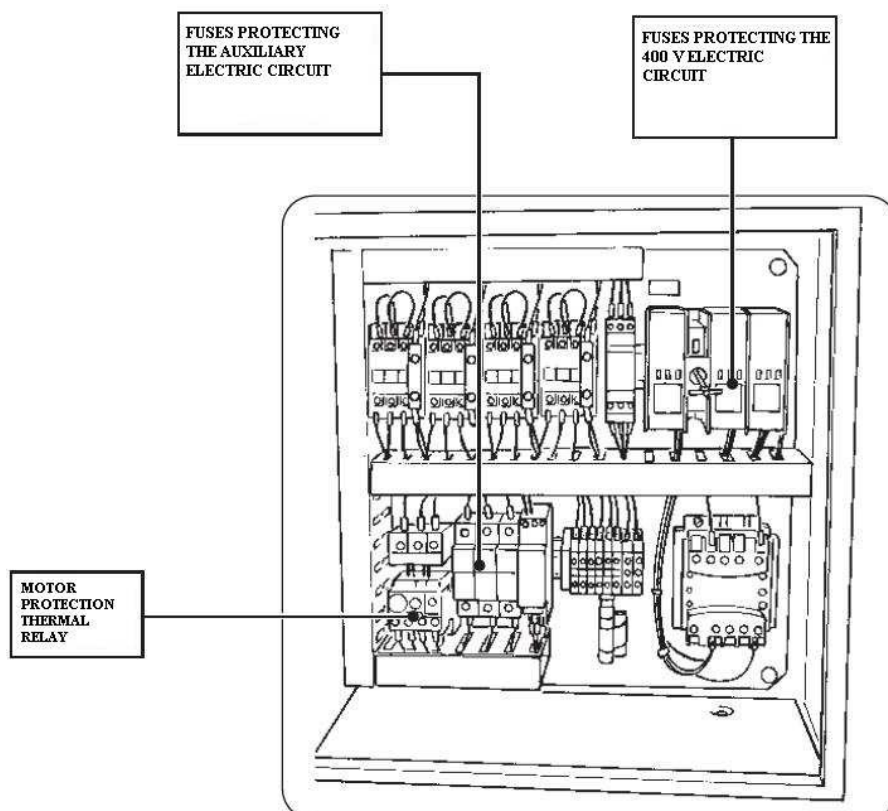
12 - Place the old filtering cartridges inside a plastic bag, close it and dispose of it in compliance with the laws in force, according to the extracted material.

Reassemble everything following the previous instructions.

USE ONLY GENUINE DEPURECO FILTERS



5.5 Positioning the thermal relay and fuses - FOX 10



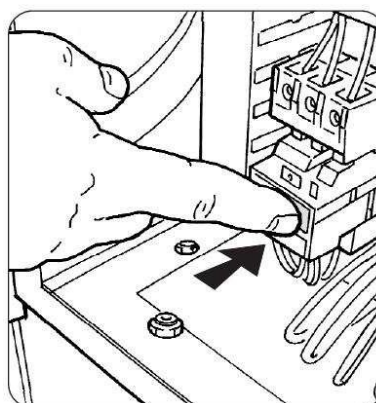
Thermal relay

Motor overheating can activate the thermal relay that protects it.

In this case, the motor stops automatically and the yellow “MOTOR THERMAL RELAY” (6) lights up (see para 4.1).

To restore it, turn the main switch (1) (see para 4.1) to “O” and open the electrical panel door using the dedicated key.

Wait for the motor to cool down and press the blue button to rearm the thermal relay; then, lock the electrical



panel door.



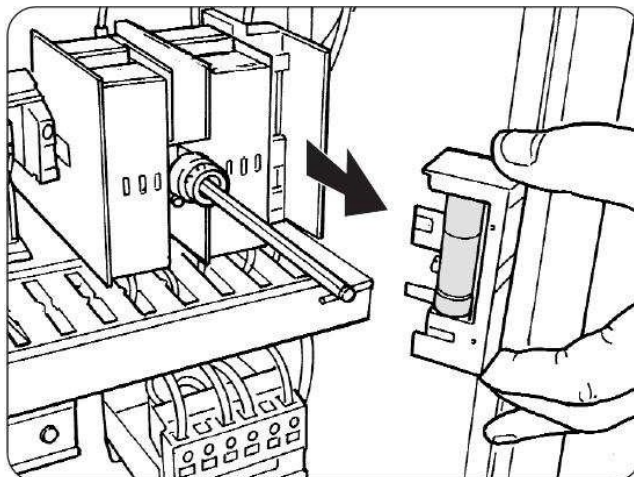
Fuses

A sudden power surge can activate the fuses that protect the 400 V electric circuit.

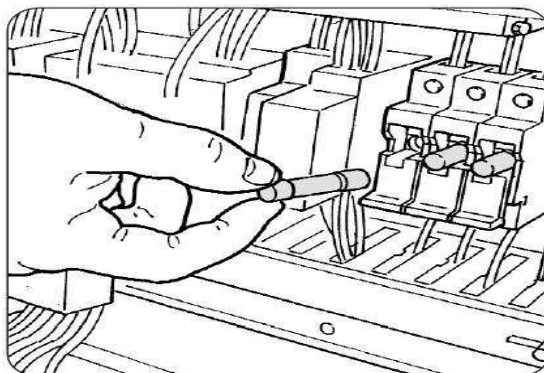
In this case, the machine stops.

To restore it, turn the main switch (1) (see para 4.1) to “O” and open the electrical panel door using the dedicated key.

Replace the blown fuse with another one with the same amperage.



Also, verify that the fuses protecting the auxiliary electric circuit have not blown. Even in this case, they must be replaced with others having the same amperage.



Attention!

In the event of any anomaly, read the notes in paragraph 5.1 and 5.2 of this manual before intervening.

If necessary, contact the DEPURECO customer service for further information.

Failure to comply with these precautions can cause serious injuries to the personnel.



5.6 Troubleshooting

ANOMALY DETECTED	POSSIBLE CAUSE	RECOMMENDED SOLUTION
The vacuum does not start up	- No power supply	- Ensure the presence of voltage in the socket - Ensure the integrity of the plug and of the power cord - Contact the DEPURECO technical assistance service
The vacuum meter indicates an irregular negative pressure	- Clogged filter	- Shake the filter. Should this not be enough, replace it.
	- Clogged suction hose	- Check the suction hose and clean it.
Dust comes out from the vacuum	- Perforated filter	- Replace the filter
	- Filter not suitable for the type of material to be vacuumed	- Install a filter suitable for the type of material to be vacuumed
Motor too noisy	- Faulty pump	- Contact the DEPURECO technical assistance service
The yellow “MOTOR THERMAL RELAY” indicator light (6) lights up (FOX 10)	- Overheated motor	- Rearm the thermal relay as described in para 5.5
The motor stops (FOX 10)	- A sudden power surge may have blown the fuses	- Replace the fuses as described in para 5.5



***In case of doubt, do not interpret!
Call immediately your dealer!***



5.7 Scrapping



To prevent damaging the environment in the event of scrapping, all the components of the vacuum must be disposed of responsibly in suitable landfills and in compliance with the standards in force - for Italy, Legislative Decree 152/2006 and subsequent amendments and additions.

Before scrapping the machine, the plastic and rubber materials must be separated from the electrical material.



Correct disposal of this product (electrical and electronic waste)

The electrical and electronic parts of this product must be disposed of in compliance with Italian Legislative Decree 151/2005 and subsequent amendments and additions (Directive 2002/96/EC on WEEE - Waste Electrical And Electronic Equipment)



The parts of the vacuum made of plastic material, aluminium and steel can be recycled in appropriate centres.

Separated from the electrical material.



***In case of doubt, do not interpret!
Call immediately your dealer!***



MAINTENANCE LOG

INTERVENTION 1

Date

Technical Assistance

Type of intervention

Signature

INTERVENTION 2

Date

Technical Assistance

Type of intervention

Signature



MAINTENANCE LOG

INTERVENTION 3

Date

Technical Assistance

Type of intervention

Signature

INTERVENTION 4

Date

Technical Assistance

Type of intervention

Signature