



**INSTRUCTION AND
MAINTENANCE MANUAL**

INDUSTRIAL VACUUMS

SERIES *BULL*



**BULL UNO
3 MOTORI**



**BULL UNO
2 MOTORI
BULL UK**



BULL 3/S



BULL 3/T



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 - 10/11/2016

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1. INFORMATIVE SECTION

1.0 Forword

Dear Customer

Thank you for preferring DEPURECO and congratulate you on choosing a DEPURECO series BULL vacuum cleaner.

This manual has been prepared to let you fully appreciate quality of this machine.
We recommend you to read it in each part before first time use.

Many information, advices and instructions are contained in this manual that will help you to make an optimum use of technical equipment of your machine.

We recommend you to read carefully messages, instructions and information, preceded by following symbols:



referred to people safety;



referred to saving vacuum cleaner;



referred to saving environment.

This vacuum cleaner has been designed to vacuum up dust, working residues and liquids (with optional). It is mounted on robust wheels, one of which is fitted with a brake to hold the machine still while is working.
The vacuum gauge fitted to the machine shows to the operator the condition of the filter: an increase of the vacuum level indicates that the filter is becoming more blocked, with a consequent reduction of the vacuum cleaner's power.

Due to cyclonic effect, the aspired material tends to deposit itself on the bottom of the container and the finer dust particles contained in the mixture will deposit themselves on the filtering surface.

This manual describes the following models:

BULL UNO	Single-phase electric vacuum cleaner
BULL TRE	Three-phase electric vacuum cleaner

The vacuum cleaner can be equipped with the following filters:

- ☐ **M FILTER**
- ☐ **L FILTER**
- ☐ **MTF FILTER**
- ☐ **H FILTER**

For increased filtering capacity, M filter **H FILTER** (or absolute filter) can be fitted.

These vacuum cleaners are classified according to the following dust categories:



M medium risk - suitable for the separation of the dust with a exposure limit value by volume > 0,1 mg/m³

H high risk - suitable for the separation of the dust with a exposure limit value by volume, including cancerogenic and pathogenic dust types.

This manual provides you all the information required for operation and maintenance of your vacuum cleaner.

Before leaving the factory, this particular model was subjected to intense testing in order to ensure maximum reliability; good operating and life cycle will depend by a correct maintenance and a care use.

This manual forms an integral part of the vacuum cleaner and must accompany the machine during the life cycle. In case of loss or damage a replacement copy must be asked for to DEPURECO S.r.l.

Technical information contained in this manual are DEPURECO property and are to be considered reserved. Copying of any diagrams, text or illustrations is prohibited by law.

Certain details shown in the illustration of this manual, may differ from those of your vacuum cleaner and certain details may have been omitted for purposes of clarity of the illustrations.

This manual has been divided into sections for easy consulting and each section has been identified by a specific graphic symbol.

The matters dealt with in this manual are those expressly required in terms of "Machines Directive 2006/42/EC" and the technical data shown come from technical file closed at DEPURECO.

With reference to Regulation 1907/2006/EC (REACH), DEPURECO hereby declares that no Substances of Very High Concern (SVHC) remembered in the Candidate List, are contained in its own products.

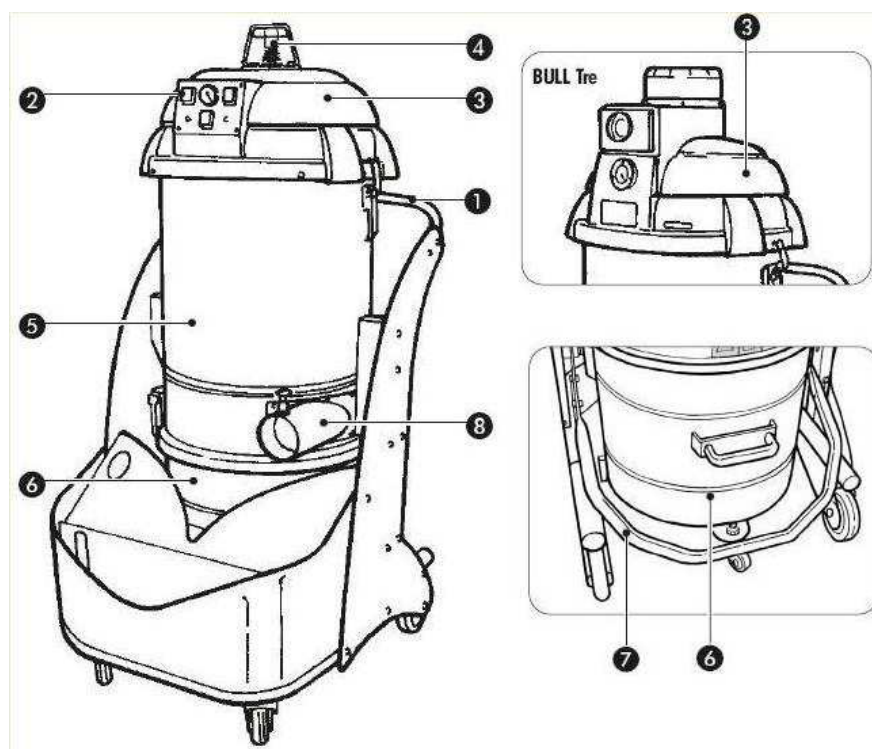
This manual must be stored in a place that is accessible to all personnel required to operate or carry out maintenance of the vacuum cleaner.

In the event of any dispute arising, the Court of Torino (Italy) shall have jurisdiction.



The manual must accompany the vacuum cleaner in the event of it being sold!

1.1 Main parts identification



- 1) handle (for carrying)
- 2) controls
- 3) motor protective cover
- 4) filter shaking lever
- 5) filter chamber
- 6) container for extracted waste
- 7) waste container locking/release lever
- 8) extractor hose inlet

1.2 Optionals

A wide range of optional accessories is available from DEPURECO on basis of the application of your vacuum cleaner.

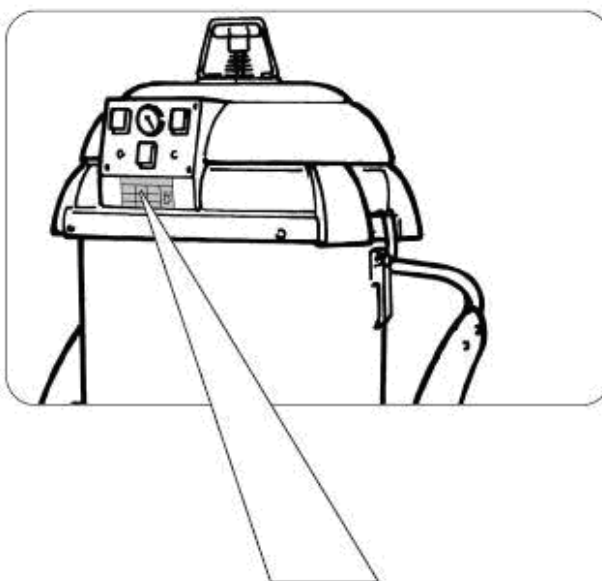
1.3 Manufacturer identification data

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

To communicate any information to manufacturer or retailer is necessary to give identification plate data of the vacuum cleaner.



DEPURECO®		Corso Europa 609 10088 VOLPIANO Tel. 011/98.59.117 Fax 011/98.59.326 MADE IN ITALY	
Model		Serial No.	
Dust class		kg	Year



1.5 Application - allowed uses

This specific vacuum cleaner model has been designed, built and protected exclusively for an industrial professional use of dry - non-hazardous - dust sucking

To clean hazardous dust ATEX Z 22, please, ask for the DEPURECO B1 version (BULL TRE only).

If equipped with a special filter and a float, the vacuum cleaner may be used to clean non-flammable and non-corrosive liquids.

Any other use is considered **INCORRECT**.

1.6 Authorized environmental conditions

To ensure correct operation, vacuum cleaner must be kept away from atmospheric agents (rain, hail, snow, fog, dust in suspension, etc.) in an area with room temperature range between 5° and 45°C and a relative humidity not higher than 70%.

Work area must be clean, with sufficient lighting and have a non-explosive atmosphere.



1.7 Noise level

Noise tests conducted on these specific vacuum cleaner models reveal a sound pressure level of

BULL UNO 2 MOTORI

70 dBA

BULL UNO 3 MOTORI

72 dBA



Warning!
Workers exposed to sound pressure levels higher than 85 dB(A) must be protected by appropriate individual protection device as e.g. acoustic individual protection device type-approved.



In this case, you need to supply workers training and information about risks coming from noise exposure.



1.8 Technical data

Feature	Unit	BULL UNO	BULL TRE
Weight*	Kg/Lb	71	71
Overall dimension* w x d	cm/ Ft	65X85	65X85
Dimension* h	cm/Ft	140	140
Voltage	V	230 50/60	
Power	KW - HP	2,4	3,9
Maximum vacuum	mbar	250	
Air flow	M ³ /h/Cfm	380	570
Filter surface M	m ² /Ft ²	24	
Filter surface MTF	m ² /Ft ²	24	
Filter surface H	m ² /Ft ²	28	
Noise level	dB-A	72	
Container capacity	Lt/Gal	65/100	
Suction section ø	mm/Inch	80	

(*) weight without packaging - weight of packaging 18 Kg;

(**) weight without battery - weight of battery 50 Kg



1.9 Guarantee

DEPURECO guarantees this vacuum cleaner model for a period of 12 months from the date of purchase as indicated on the receipt for fiscal purposes emitted at the moment of product delivery by the retailer.

Guarantee does not apply if the vacuum cleaner is repaired by unauthorized persons or if it is used with tools or accessories or components not supplied or not authorized from DEPURECO or if the serial number is found to have been removed or altered (during guarantee period).

DEPURECO guarantees repairing or substituting free of charge any parts or components found during guarantee period, to be manufacturing defects.

Repairs will be exclusively execute at DEPURECO site or in a DEPURECO approved Assistance Center and machine must be sent free of charge (freight cost at user's charge unless otherwise agreed).

Guarantee does not cover cleaning of functioning parts.

Proof of purchase - document for fiscal purposes - must be shown to the authorized technician that will make repairs or must accompany delivering of vacuum cleaner.

Defects not material or manufacturing-related, will be analyzed exclusively at DEPURECO site or in a DEPURECO approved Assistance Center.

If claim should result unjustified, all repair expenses and/or part replacements will be charged to the customer.

The following items are excluded from the guarantee: accidental damage due to transport, negligence or inadequate treatment, incorrect use or failure to adhere to the instructions of this manual or damages coming from events independent of normal vacuum cleaner use/operation.

DEPURECO Guarantee does not apply to eventual body injury or property damage or lost profit, due to incorrect use of vacuum cleaner or failure to adhere to the instructions of this manual.

In case of any controversy, the Court of Torino (Italia) shall have exclusive jurisdiction.



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



2. SAFETY SECTION

2.1 Safety information

According National Law on Work Safety (in Italy D. Lgs. 81/08), the Safety Manager must train and inform workers about risks involved with using the vacuum cleaner so that they may be able to avoid injury to themselves and others.

Failure to comply norms, laws or basic safety precautions, may cause accidents during operation, maintenance and repair of the vacuum cleaner. Often an accident, may be prevented by recognizing a potentially dangerous situation before it happens. An adequate training is an essential requisite (learn to recognize it).

DEPURECO may in no way be hold responsible for accidents or damages as a result of vacuum cleaner use by not adequately trained personnel, incorrect use, or failure to comply, even partially, the safety norms and laws and adjustment procedures outlined in this manual.

The safety precautions and warnings are shown in this manual and on board of product itself. If worker does not pay attention to these hazard warnings, there could be accidents with serious consequences for both himself and others.

The safety messages are pointed out with the following symbols:



Warning!

These messages, if unheeded, may cause injury to the worker.



Caution!

These messages, if unheeded, may cause damage to the vacuum cleaner.



Warning!

These messages, if unheeded, may cause damage to the environment.

DEPURECO carefully designs and carries out vacuum cleaners and relative accessories, identifying and solving all possible risks relevant the use. In case they use tools, procedures, ways of work or work technique, not specifically recommended by DEPURECO, it is necessary to ensure preventively, that there is no danger for oneself or others, in any case responsibility of DEPURECO is excluded.



Use only original DEPURECO replacement parts

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



2.2 Safety measures

Warning!

The forward information are very important to fully prevent any risk operating with vacuum cleaner. Therefore (information) must be integrated by worker's ability and common sense as well as indispensable ingredients for accident prevention. Each section lists further safety measures specific for the various functions.

CAUTION !

- Use of the vacuum cleaner is restricted to adults, adequately trained.
- This vacuum cleaner is intended for industrial use, e.g.: factories, warehouses, workshops.
- Connect vacuum cleaner to an electrical supply adequately grounded line.
- During use, always lock the vacuum cleaner, using the special brake located on the turning wheel.
- This vacuum cleaner is not intended for corrosive or explosive environment.
- Keep the vacuum cleaner free from external elements such as wastes, oil, tools and other objects that could damage its function and cause injury to people.
- Avoid use of toxic or inflammable solvents, such as gasoline, benzene, ether and alcohol for cleaning.
- Avoid prolonged contact or inhalation with solvents and their vapors.
- Avoid using near open flames or heat sources; ensure adequate ventilation.
- Never use the vacuum cleaner without filter.
- Do not vacuum lit cigarettes butts: they could ignite the filter.
- Do not breathe petroleum products or inflammable liquids in general.
- Ensure that all protection equipment and guards are in place and that all safety devices are present and operating.
- Do not use the vacuum cleaner on non-level or inclined surfaces.
- Do not wear loose or flowing apparel such as ties, scarves, or torn clothing that could become hung or caught up by the vacuum cleaner.
- Never open waste container while the vacuum cleaner is working.
- Never insert hands between waste container and vacuum cleaner during locking phase. Perform locking procedure using the special lever with BOTH HANDS.
- Never move the vacuum cleaner by pulling it by the electrical supply cord.
- Never use extension cords, plug-in connection devices and adapters.
- Never use the vacuum cleaner on board of mobile machines.



- It is forbidden to climb on the vacuum cleaner.
- Do not touch wires, switches, buttons, etc. with wet hands.
- Check periodically supply cord entireness.
- During operation of industrial vacuum cleaner, some components may reach temperatures of 116°C, e.g.: terminal block, motor body.
- During restoration operations of original normal work conditions, employees in charge must check that the vacuum cleaner has been returned to its usual safe work conditions, particularly with regard to the safety devices and protection guards pertinent the use.
- In the event Client installs on vacuum cleaner an accessory not supplied by DEPURECO, it is necessary to check that safety requirements intended by Machines Directive 2006/42/EC, are observed; in any case DEPURECO will not assume responsibility for eventual consequences rising from use of such parts.
- Structural damages, changes, alterations or unauthorized repairs can compromise the protection capability of the vacuum cleaner thereby rendering this certification null and void and excluding any responsibility by DEPURECO.
- The present manual must always be nearby, so it may be consulted to check correct cycle use anytime there are some doubts.
If it gets lost or damaged, a substitute copy must be requested to DEPURECO.



Warning!

**This vacuum cleaner could contain dust that may be hazardous to your health.
All emptying out and maintenance, including the removal of dust containers, must be carried out exclusively by specialized personnel wearing suitable protective clothing.
Do not switch the machine on without an operational filtering system in place.**



2.3 Safety plates and symbols

Plates showing safety symbols and warnings are applied both on board of the vacuum cleaner and packaging materials.

These pages show their exact location and the type of hazard involved.



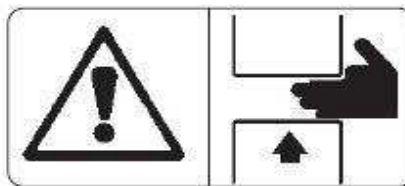
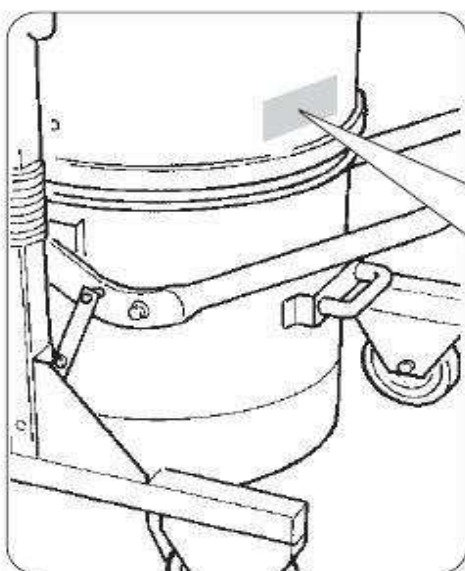
Warning!

Ensure that all safety plates are legible.

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

Replace damaged plates, requesting them to DEPURECO.

If a plate is located on a part that has to be replaced, ensure that a new plate is attached to the new part.

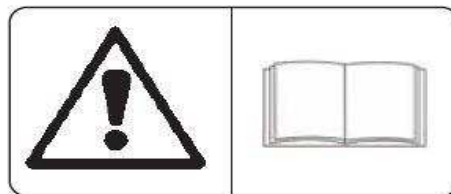
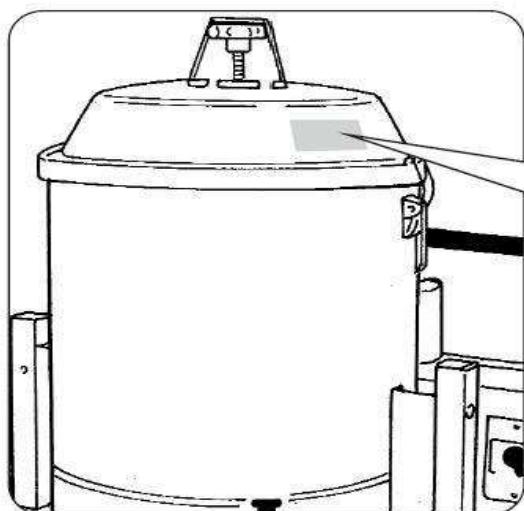


Warning!

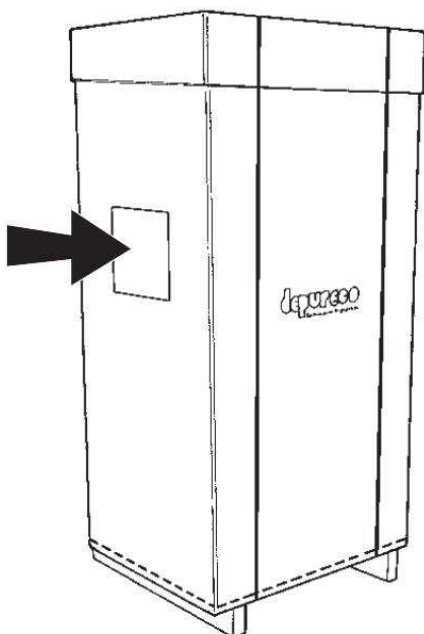
Crushing hazard to the upper limbs during insertion and locking phase of the waste container under vacuum cleaner.

Never put hands between the waste container and the vacuum cleaner during the locking phase.

Lock the container using the special lever with **BOTH HANDS**.



Caution!
Carefully read operation and maintenance manual before using or repairing vacuum cleaner.



Caution!
Carefully read the instructions on packaging before removing and unpacking the vacuum cleaner.



2.4 Residual risks

The careful risk analysis performed by DEPURECO (closed in technical file), has made it possible to eliminate most of the risks involved in using the vacuum cleaner.

DEPURECO recommends scrupulous adherences to the instructions, procedures and recommendations contained in this manual as well as to current safety norms and requirements. In add DEPURECO recommends use of intended protection devices, both integrated in vacuum cleaner and for individual worker.

From this point of view residual risks present on the vacuum cleaner and/or on its components can be:

Electrical risks during maintenance due to necessity of working under live voltage

National Law on Work Safety (in Italy D. Lgs. 81/08) states is forbidden working under live voltage, except eventual exceptions as provided in law.

Risks associated with incorrect use in presence of explosive and inflammable substances

This vacuum cleaner **must never be used** in an environment containing substances as liquids that could vaporize at room temperature, or inflammable dust, or gas (see Section 1.5 "Application - allowed uses").

Risks associated with operation in a humid environment

Respect limits listed in Section 1.6 "Authorized environmental conditions" in the present manual.

Crushing hazard to the upper limbs during the insertion and locking phase of the waste container under the vacuum cleaner.

A safety illustration showing this risk is on board of the vacuum cleaner.

The risk can be avoided locking the container under the vacuum cleaner using the special lever, **with both hands**.

Refer to Section 2.3 for the exact meaning of the safety plates.

Risk of incorrect interpretation of the safety plates

In the course of identifying and analysis of risks, DEPURECO has installed on vacuum cleaner, safety plates in accordance with relative norms and requirements about graphic symbols.

User is responsible for immediately replacing the safety plates should become illegible (due to wear) or damaged.



Warning!

It is absolutely forbidden to remove the safety plates present on board of the vacuum cleaner and/or the components and the packaging.

DEPURECO declines all responsibility for vacuum cleaner safety in the event this prohibition is unheeded.

2.5 Applied Directives

The following directives apply to the vacuum cleaner described in this manual:

- 2006/42/EC Machines Directive
- 2014/30/EU Electromagnetic compatibility Directive

Harmonized Standards, statutory and regulatory requirements included, are managed by Quality and Environment Management System and closed at DEPURECO headquarters.



3. HANDLING, UNPACKING AND INSTALLATION SECTION

3.1 Handling

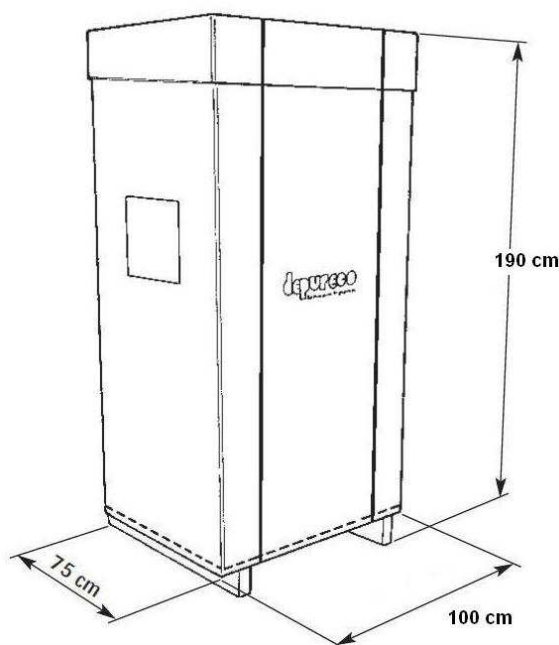


Caution!

Instructions for correct transporting and unpacking of the vacuum cleaner are also displayed on the packaging.

These instructions also explain the operations to be carried out in the event that the vacuum cleaner needs to be re-packed for, or unpacked following a subsequent move.

Weight and dimensions of packed vacuum cleaner.



model	Lt/Gal 65/18	Lt/Gal 100/27
BULL UNO	Kg/Lb 89/196 ~	Kg/Lb 92/202 ~
BULL TRE	Kg/Lb 113/249 ~	Kg/Lb 116/255 ~

(*) weight without battery - battery weight = 50 Kg (110 Lb)

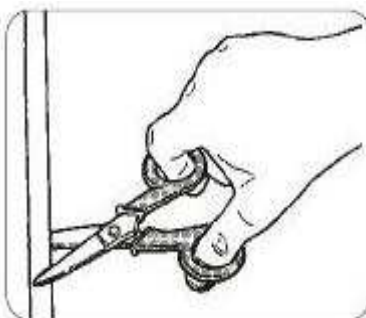


Lifting and subsequent vacuum cleaner handling must be performed exclusively using a fork-lift truck with adequate load capacity.

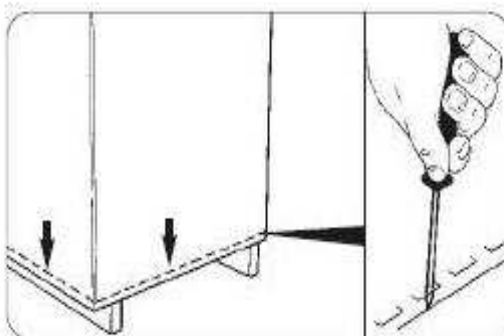
When transporting with a fork-lift truck, raise the load 200 mm height from ground and make back training. When raising load, be aware of the ceiling height of the work area. Before moving make sure the pathway is free from obstructions and no mobile objects are on the package. For lifting and handling, apply operating safety laws and normal instructions for fork-lift truck driving.



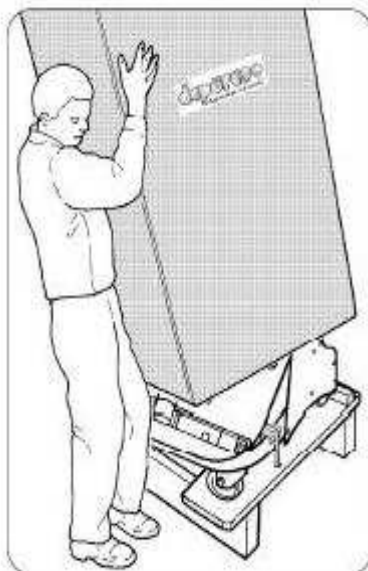
3.2 Unpacking



- Cut and remove two fastening straps from the case



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



- Completely remove the case

- Unscrew screws of “L” fastening brackets and put off brackets.

CAUTION: after putting off bracket, the screw you see in figure must be re-screwed completely to the vacuum cleaner.



Caution!
Cardboard packaging is a recyclable material and, in order to avoid environmental impacts, DEPURECO suggests you to bring it to separate collection.



Caution!
Save pallet and fastening brackets.
In case of eventual future transport, vacuum cleaner must be anchored to the pallet using the same fixing system.



3.3 Installation



Caution!

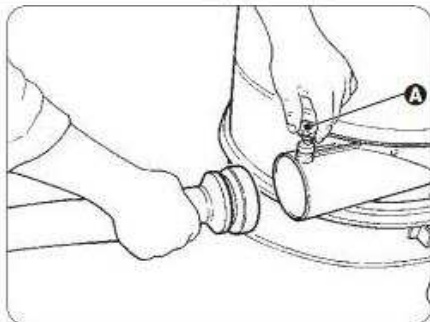
Before proceeding to the installation of the vacuum cleaner it is necessary to carefully make a preliminary visual check for eventual transport damage.

In case one or more component appear damaged, it is necessary stopping with installation and report to DEPURECO the fault found, agreeing actions to perform with them.

The vacuum cleaner is already fitted with an appropriate filter that is intended exclusively for dry dust or debris suction.

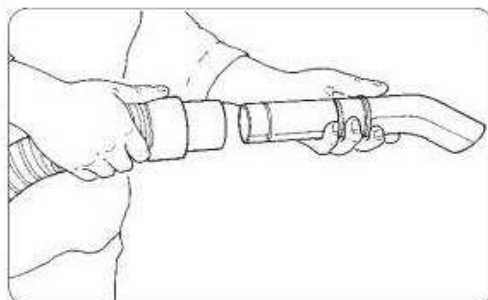
For liquids suction, ask DEPURECO the special filter and float valve to turn off suction when the container is half-full. For more information, please contact Customer Service Dept. of your Dealer (or DEPURECO).

- Lift knob (A) and insert the flexible tube with end-piece into the suction mouthpiece by releasing the knob.



- Attach the appropriate accessory into the other end of the flexible tube

Note: The flexible tube with is various endings and the vacuum accessories are not included in the standard equipment.



Contact your retailer for information regarding the variety of OPTIONAL accessories available for use with this particular model of vacuum cleaner.



The following operation must be performed by an electric technician.

Check that the electrical supply line corresponds to the voltage and frequency shown on the vacuum cleaner's identification plate and that electrical supply is adequately ground provided.

DEPURECO C.S. Europa, Volpiano 10088 (TO) Tel. 011/98.59 Fax 011/98.59.326 INDUSTRIAL VACUUMS MADE IN ITALY				
Mod.		Volt		
Serial N°	kW	Amp	Hz	
Dust class	IP	Kg	Year	

The vacuum cleaner's electrical current supply socket must be protected by a circuit breaker CE-marked. Insert the plug of the vacuum cleaner (standard equipment) into power supply socket.



Warning!

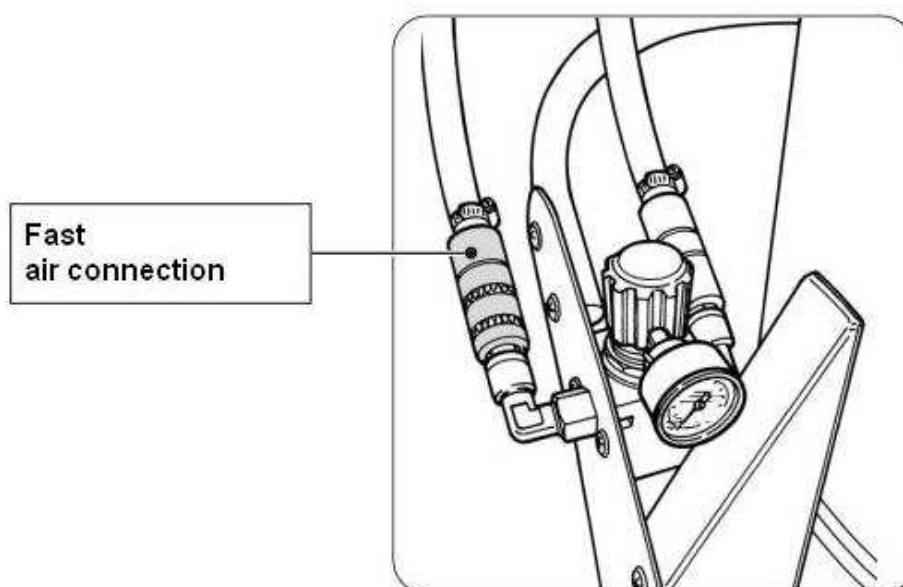
Do not insert the plug in the power supply socket with wet hands.

Connection to the air compressed supply - BULL AIR only

Connect to the fast air connection showed in picture.

The pressure requirement must be max 6 bar.

For correct working operation, the air supplied into the vacuum cleaner, must be dehumidified.



If you need more information, please contact Customer Service Dept. of your Dealer (or DEPURECO directly).



4. OPERATION SECTION

4.1 Controls description

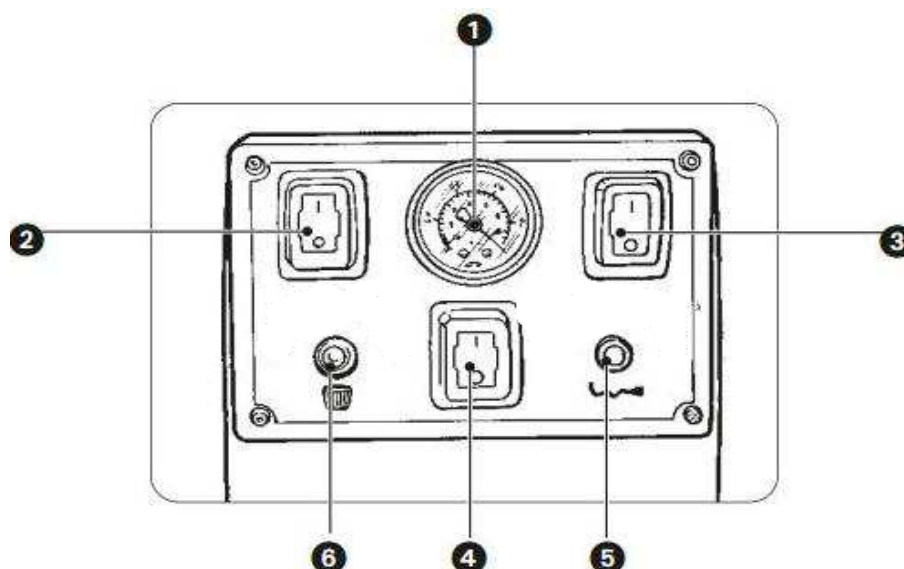


Warning!

Authorized personnel only that have read the present maintenance and operation manual may use this vacuum cleaner.

Appliance user and maintenance technician that carry on authorized operations on the vacuum cleaner, must receive adequate training and information, as stated by current norms and requirements about work safety and use for each operation, appropriate and expected individual protection devices, as e.g. safety shoes, gloves, protective glasses, mask, etc. User must comply current norms and laws about sucked materials and about their disposal.

BULL UNO



1 = Vacuum Gauge: signals that extracted filter is clogged

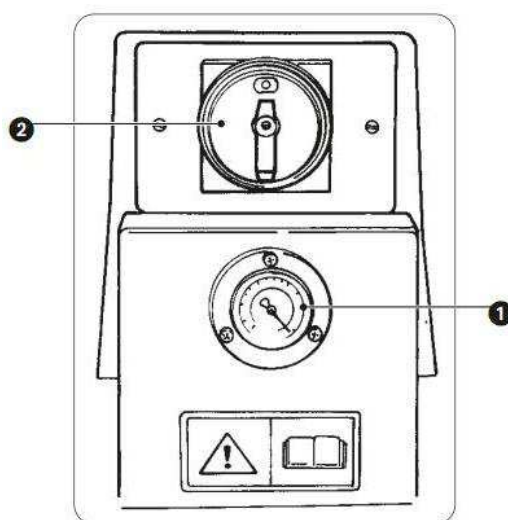
2 = Start / Stop Switch ON-OFF first motor

3 = Start / Stop Switch ON-OFF second motor

4 = Start / Stop Switch ON-OFF third motor

5 = White warning light POWER ON

6 = Red warning light FILTER CLOGGED



1 = Vacuum Gauge: signals that extracted filter is clogged

2 = Start / Stop Switch ON-OFF

4.2 Work cycle

Ensure that supply cord is intact and in a perfect condition.



Warning!

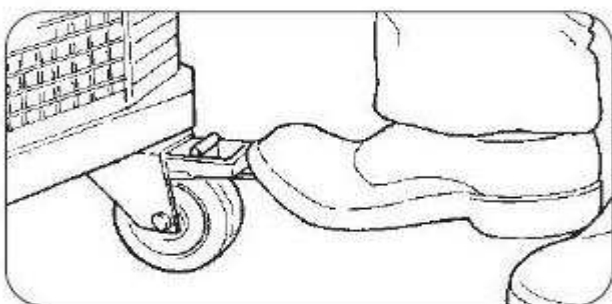
Before inserting the plug check that the electrical supply line voltage corresponds to the value indicated on the nameplate label of the vacuum cleaner.

Check that the plug is correctly inserted in the socket.

Check that the flexible tube is correctly inserted and locked in the suction mouthpiece.

Check that the waste container is properly inserted and locked under the vacuum cleaner.

Stabilize the vacuum cleaner using the lever found on the turning wheel as shown in the picture.



Warning!

Do not move the vacuum cleaner while it is in operation.

Hold the end of flexible tube with the chosen vacuum accessory.



On BULL UNO

Press the switch (2) and start vacuuming.

To increase vacuuming power the second motor can be activated by pressing switch (3) and third motor by pressing switch (4).

To turn off the vacuum cleaner press the previously activated switches.

On BULL TRE model

Turn the switch (1) on "I" position and start vacuuming.

To turn off the vacuum cleaner press the switch on "0" position.



Caution!

Before to turn on another time the vacuum cleaner, ensure that the pump has been stopped completely.



Warning!

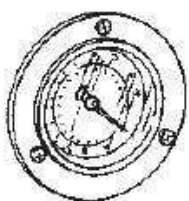
If any dust is expelled from the head of vacuum cleaner (for one-phase model only) or from muffler - air out tube - (for three-phase model only) filter could be broken. In this case the vacuum cleaner must be stopped immediately and the cause of the problem must be identified.

To move the vacuum cleaner use the handle provided on the back.



Caution!

During vacuuming, do not roll up or bend the flexible tube.



On the front of the vacuum cleaner there is a vacuum gauge that shows the depressure level inside the vacuum cleaner. The gauge shows the operator the state of filter: if depressure value increase it means that filter is going to clog, consequently suction power decrease.

When filter is clogged the gauge shows the value given in the following table. In this case, stop the machine and shake out the filter.

Model	Clogged Filter Value	
BULL UNO*	- 0,16 bar	- 16 kPa
BULL TRE	- 0,16 bar	- 16 kPa

(*) on board of BULL UNO there is also a red warning light that signals filter clogging.



Warning!

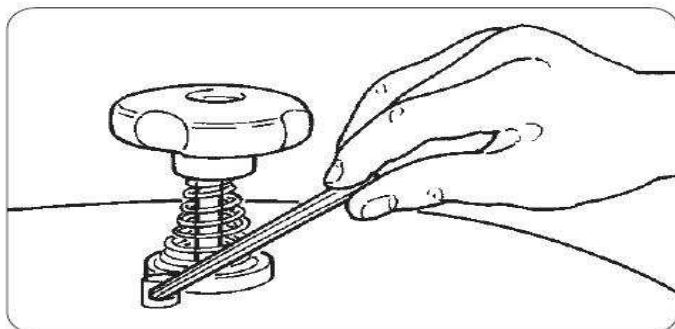
Never operate the machine with a clogged filter.



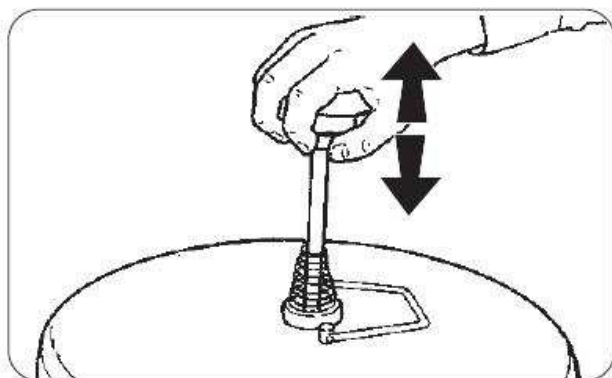
In this case, **to clean the filter**, operate as follows:

On BULL UNO

- switch off the machine
- push down the lever that locks the knob located on the top of the cover.



- pull the knob up and down vigorously to shake out the internal filter.



- lock again the knob, lift the appropriate lever and continue vacuuming.



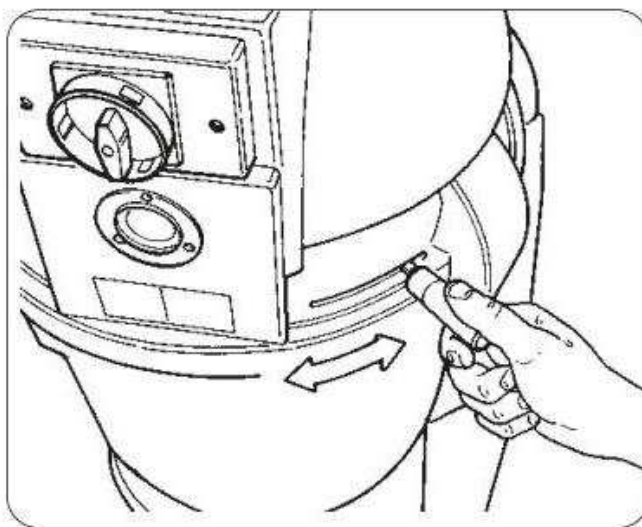
Warning!

If the gauge still indicates an abnormal depressure value flexible tube or suction accessory could be obstructed. In this case it is necessary to clean it, eliminating the cause of the clogging.



On BULL TRE model

Shake out the filter by moving vigorously - right-left direction - the lever you see in the picture



Warning!

If the vacuum cleaner does not work properly, after filter cleaning, it is possible that the filter is completely clogged and needs to be replaced.

4.3 Emptying the waste container



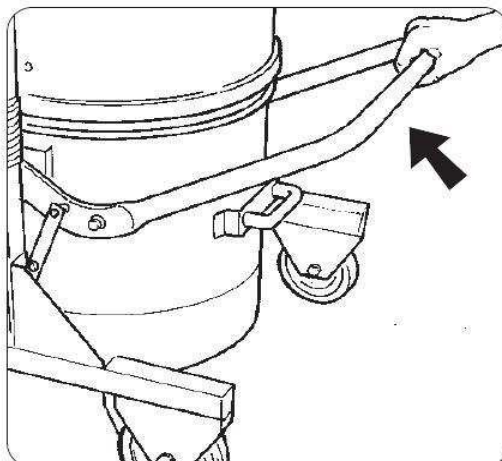
Warning!

During this operation, appropriate and expected individual protection devices, as e.g. safety shoes, gloves, protective glasses, mask, etc. must be used.

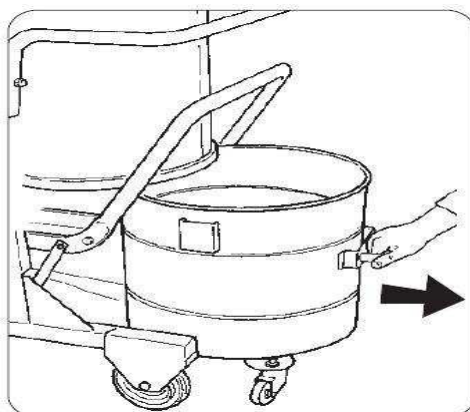
Check frequently the inside of waste container to prevent excessive filling, based on the quantity and type of material vacuumed.

To empty the container:

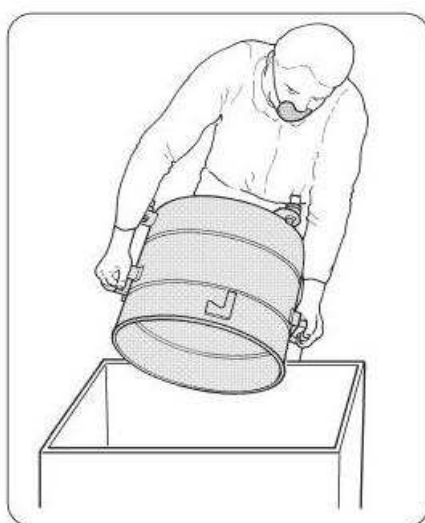
- turn off the machine
- as specified previously, vacuum cleaner is stabilized with the special brake on the turning wheel
- release the container by raising the lever



- remove the container from vacuum cleaner, by means of the handle



- empty the container into another container approved for waste disposal under the laws of the country in which the vacuum cleaner is used





Generally for the emptying operation and for making it in safety conditions for personnel, DEPURECO suggests the use of a nylon bag into the waste container (see Accessories Catalogue when expected). When the bag is full – up to about 3 cm under rim – to empty the container operate as follows:

- after removing the container
- tie up the bag



- remove the bag and
- insert a new bag.



Warning!

If the bag (or the container) weights more than 15 Kg, it is necessary the help of another person.

An appropriate kit to lift heavy containers is available: please ask to DEPURECO.



Warning!

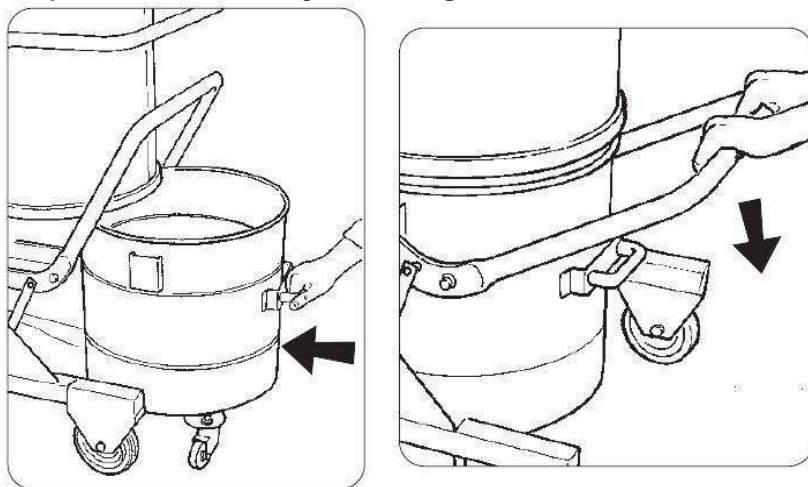
Waste disposal must comply current laws of the country in which the vacuum cleaner is used (e.g. in Italy D.Lgs. 152/2006).

If the machine is used for class M and H dust, dusts must be collected in an appropriate plastic bag.

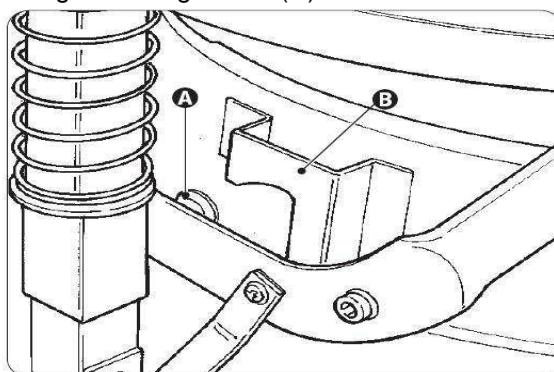


4.4 Inserting and locking the waste container

- Insert the container under the vacuum cleaner
- lower completely the container locking lever **using both hands**.



Pins (A), on both sides, must be aligned with grooves (B).



Warning!

Crushing hazard to the upper limbs!

Never put hands between the waste container and the vacuum cleaner during the locking phase.

Lock the container using the special lever with BOTH HANDS.

4.5 Storage

Remove the filter and clean it, empty the waste container and store the vacuum cleaner in a place free from atmospheric agents with a temperature range of 5° to 45°C, covering it with a nylon bag to prevent dust from collecting.

If you have any doubt do not act by yourself!

Please call your retailer



5. MAINTENANCE SECTION



Warning!

Vacuum cleaner extraordinary maintenance must be performed exclusively by specialized technician acknowledged by DEPURECO dealer.

5.1 Informative notes

This section contains the description of control operations and ordinary maintenance indispensable for granting continue performance of the vacuum cleaner.

Maximum reliability of vacuum cleaner and minimum maintenance cost are the result of a maintenance and inspection program planned and scrupulously applied during the whole life cycle of the vacuum cleaner itself. Respect scrupulously stated time ranges of maintenance and make maintenance operations based on specific needs depending from work cycle of the vacuum cleaner.

Always use tools in perfect conditions and specifically made for the procedure to be performed; use of inappropriate and inefficient tools may cause serious damages.

Any other intervention deemed necessary for repairs or performance defects must be expressly authorized by the manufacturer.

In these cases always communicate vacuum cleaner identification data – see § 1.4 of present manual.

Consultation with authorized retailer is recommended for important repairs. Their specialized personnel, have all the necessary technological experience in the original manufacturing, are always available and ready for quick intervention.

In case of maintenance by user, interventions must be planned and performed without risks for maintenance personnel and for third party. Appropriate precautionary measures include the decontamination of the machine prior to dismantling, ensure adequate, filtered forced ventilation of the area where the machine is to be dismantled, the cleanliness of the maintenance area and the wearing of suitable protective equipment.

In case of class M vacuum cleaner, the exterior of the machine must be

- decontaminated by vacuuming the dust – using a vacuum cleaner of the same dust class or superior
- washed, cleaning the surface with a damp cloth and
- rendered by airtight means.

prior to being removed from the hazardous area and in order to avoid dust dispersion.

The manufacturer or a qualified person must, at least once per quarter (or more frequently on basis of work cycle and use conditions)

- carry out an inspection of the filter to make sure that is not broken,
- check the air tightness and
- the proper functioning of the control devices.

When carrying out maintenance tasks or repairs, any contaminated items that cannot be cleaned in a satisfactory manner, must be inserted of in waterproof bags and disposed in compliance with current laws for such waste materials.



5.2 General safety norms



Warning!

All interventions described must be performed with the power supply plug removed from the socket (and compressed air taken off).



Before starting any maintenance or cleaning intervention personnel must wear appropriate individual protective devices (e.g. protective clothing, glasses, gloves, mask, etc.) adequate to the type of work to be performed.

A sign must be placed on the vacuum cleaner stating:

**“MACHINE IN MAINTENANCE
DO NOT USE”**



Before returning to use, the whole system must be checked according starting procedures.

After each maintenance job, some test cycles to verify the correct functioning, must be executed.

Failure to respect these precautions can cause serious injury to personnel.

Maintenance works for this type of machine must be performed by technicians specialized and trained in the following sectors:

- mechanical maintenance
- electrical maintenance

It is the specific duty of the Safety Responsible to ensure the reliability and competence of these employees.

Before beginning a maintenance procedure Safety Responsible must:

- have the work area cleared of outsiders



- ensure that the necessary tools are available to the maintenance employee and are in good conditions
- ensure that the maintenance employee wears individual protective devices (e.g. protective clothing, glasses, gloves, mask, etc.) appropriate for the particular procedure
- ensure that the maintenance employee has carefully read the instructions contained in this manual and is thoroughly familiar with the vacuum cleaner and its components.

- ensure that there is a sufficient illumination and, if necessary, provide portable 24 Volt lamps.

Before beginning a maintenance procedure the employee must:

- disconnect the electrical supply and lock the vacuum cleaner safety devices
- disconnect compressed air.



Warning!

If it is absolutely necessary to work with the power supply connected, whether foreseen by current safety laws, the maintenance employee must keep a safe distance, have a stop button handy and never put hands between the waste container and the vacuum cleaner.

At the end of the procedure and before returning to use, the maintenance employee must check that guards are functioning correctly and the protection devices are integral.

Works on the motors or on other electrical components must be performed only by electrical maintenance employees who have been specifically trained and authorized by Safety Manager.



Warning!

After each maintenance job, Safety Manager must check the safety conditions of the vacuum cleaner and its protection guards.

Before each work shift

- Check that the supply cable and the plug are not damaged. Whether damaged, replace immediately, using a cable of the same model (information from DEPURECO) – this intervention must be performed exclusively by an electrical maintenance employee.
- Check that the safety illustrations on board of the vacuum cleaner are intact.
- Check that the waste container is empty and correctly locked under the vacuum cleaner.
- Check filter efficiency by means of the vacuum gauge.
- Check that the flexible suction tube and accessories are in good conditions.



Warning!

The flexible suction tube, if perforated, reduces the suction power and releases dusts in the surrounding environment.

5.3 Filter replacement



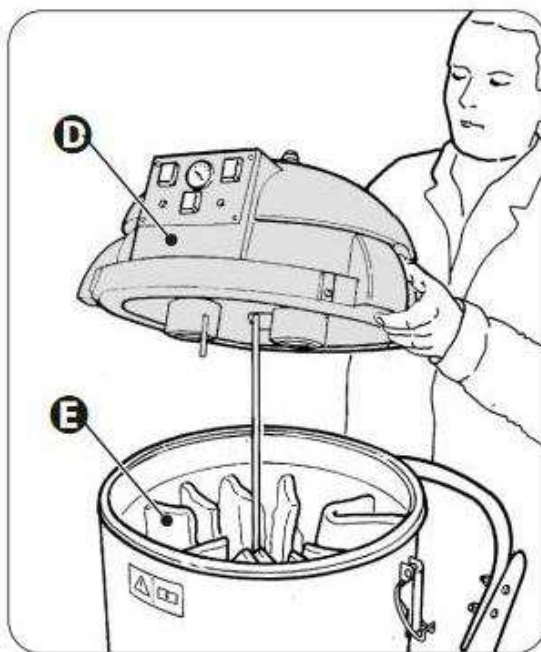
Warning!

Wear the wear appropriate individual protective devices (e.g. protective clothing, glasses, gloves, mask, etc.) adequate to this type of work.

To replace the filter, proceed as follows:

On BULL UNO

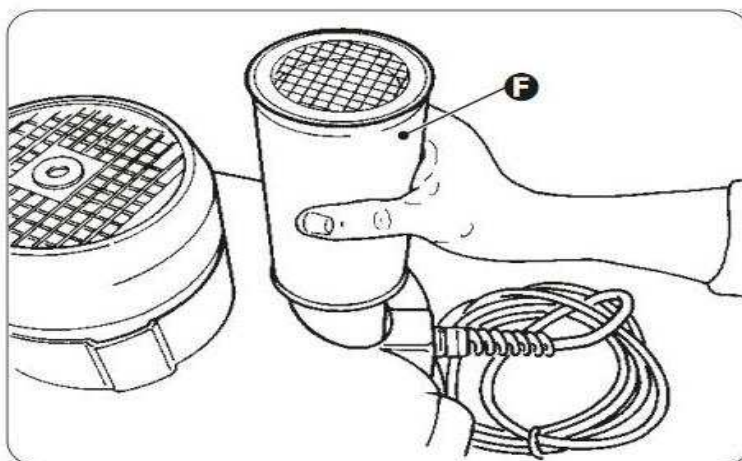
1. turn off the machine
2. remove the plug of the vacuum cleaner from power supply socket
3. remove the compressed air from valve
4. push down the lever **(A)**, unscrew completely and take out the knob **(B)**
5. unlock on both sides, the two fasteners **(C)** of the cover
6. remove the suction tube
7. lift up the top cover **(D)**



8. pull out the filter (E) and place all the components on a work bench.

On BULL TRE model

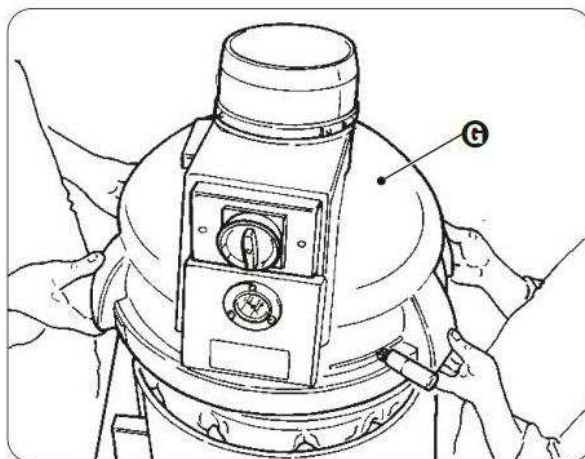
1. turn off the machine
2. unscrew and take off and remove the silencer (F)



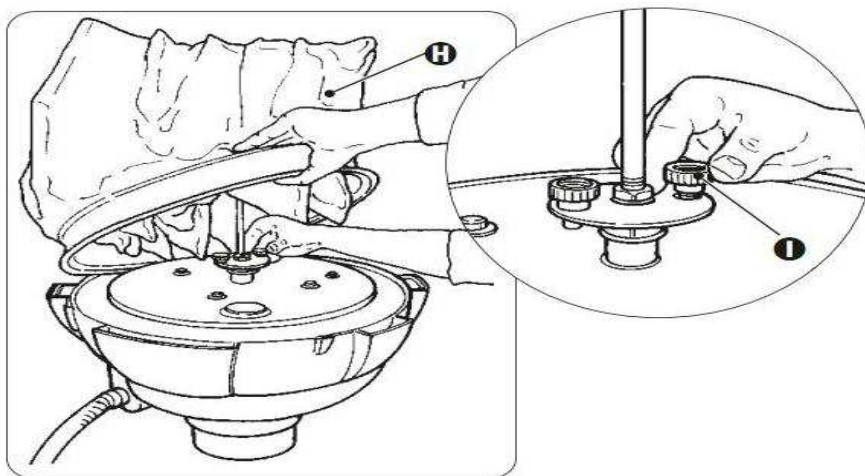
3. lift up the cover (G) and place it on a work bench, being careful not to damage the power cable.



Warning!
This operation requires two people.

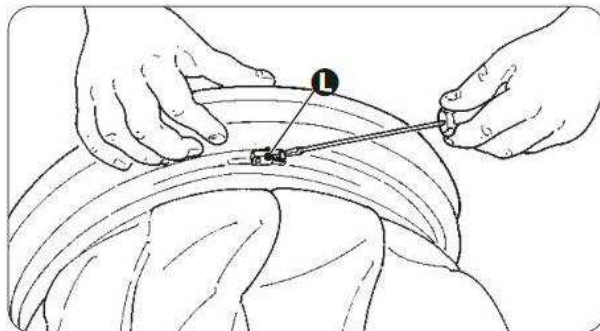


4. lift up the filter (H) and unscrew the two knobs (I)
5. remove the filter.





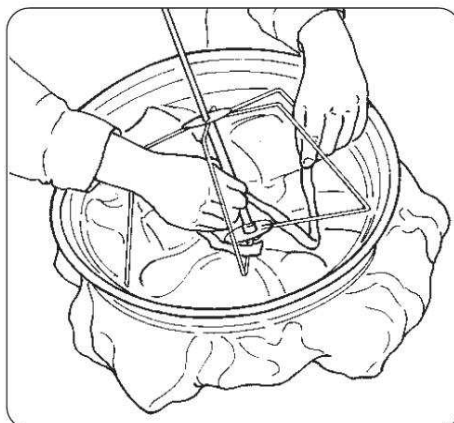
a. undo the fixing clip (L), detach the filter from its support and, using a pair of scissors, cut the internal ties that secure it.



b. remove the filter, put it in a plastic bag, seal it and make disposal according the current laws about type of material extracted.

To fit the new filter, make as follows:

1. fit the filter into its support ring, securing it by means of the fixing clip (L)



2. attach the filter to the support gage by knotting the ties you see in the picture
3. fit the filter complete with support inside the vacuum cleaner – secure it to the cover on BULL TRE model
4. place correctly the cover on the vacuum cleaner and secure it by means of two side fasteners (C)
5. refit the knob (B) screwing it completely
6. lift up the lever (A) to lock the knob - on BULL 3 model screw the silencer (F)
7. connect the flexible tube
8. connect compressed air to fast air connection – see paragraph 3.3
9. connect power supply
10. turn on the vacuum cleaner, checking immediately the regular functioning.

USE EXCLUSIVELY ORIGINAL DEPURECO FILTERS



5.3.1 Filter H (o filter absolute) - optional

Available for BULL UNO

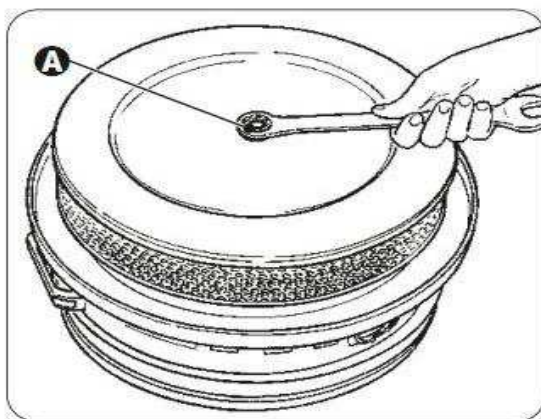
The absolute filter allows almost 100% of the dust extracted to be retained. If the vacuum cleaner is equipped with this specific filter, its filtering capacity must be checked periodically.



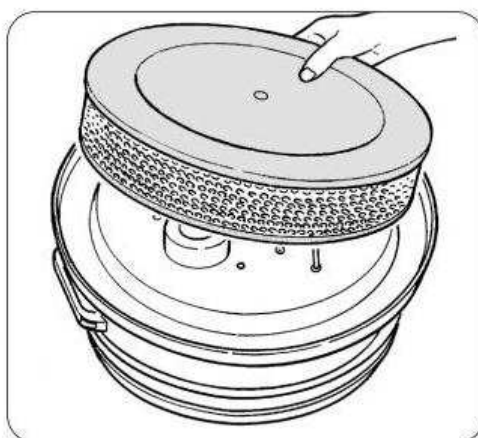
Warning!

Wear the appropriate individual protective devices (e.g. protective clothing, glasses, gloves, mask, etc.) adequate to this type of work.

- To replace the absolute filter, turn the top cover upside down and unscrew the nut (**A**).



- Remove the filter, put it into a plastic bag, seal it and make disposal according the current laws about type of material extracted.



- Fit the new filter and secure everything with the nut (**A**) previously removed.

USE EXCLUSIVELY ORIGINAL DEPURECO FILTERS
type HEPA



5.3.2 Complete “SP” kit with cartridge and cycle programmer

Available for BULL UNO



- To replace the absolute filter, turn the top cover upside down and unscrew the nut
- Fit the new filter and secure everything with the nut (A) previously removed.



Warning!

Wear the appropriate individual protective devices (e.g. protective clothing, glasses, gloves, mask, etc.) adequate to this type of work.



- Remove the filter, put it into a plastic bag, seal it and make disposal according the current laws about type of material extracted.



5.4 Troubleshooting

FAULT	POSSIBLE CAUSE	RECOMMENDED COURSE OF ACTION
The vacuum cleaner will not start BULL UNO BULL TRE	<ul style="list-style-type: none">- No power- Circuit breaker triggered (BULL TRE)	<ul style="list-style-type: none">- Check if there is power at the plug- Check the condition of the plug and the power cable- Reset the circuit breaker (BULL TRE)- Contact DEPURECO technical assistance
The gauge shows incorrect suction	<ul style="list-style-type: none">- Clogged filter	<ul style="list-style-type: none">- Shake out the filter. If this is not enough, fit a new filter.
	<ul style="list-style-type: none">- Clogged suction tube	<ul style="list-style-type: none">- Check suction tube and clean it.
Dust escapes from the vacuum cleaner	<ul style="list-style-type: none">- Punctured filter	<ul style="list-style-type: none">- Fit a new filter
	<ul style="list-style-type: none">- Filter not suitable for type of material being extracted	<ul style="list-style-type: none">- Fit a filter suitable for type of material being extracted
Motors produce excessive noise	<ul style="list-style-type: none">- Carbon brushes worn or broken- Fans not balanced	<ul style="list-style-type: none">- Contact DEPURECO technical assistance

If you have any doubt do not act by yourself!

Please call your retailer



5.5 Life cycle end



In the event of life cycle end, to avoid damages to environment, each component of the vacuum cleaner, must be disposed of in a responsible way, in adequate dump in according to current laws - in Italy D.Lgs. 152/2006.

Before to proceed to life cycle end intervention, is necessary to separate the plastic parts or rubber from electrical material.



Correct disposal of the product (electrical and electronic equipment waste)

Electrical and electronic parts of this product must be disposed of in according of 2002/96/EC Directive on WEEE - Waste Electrical and Electronic Equipment – (in Italy D.Lgs. 151/2005).



Vacuum cleaner plastic parts, or aluminium, or steel, may be recycled, bringing them on the appropriate centres.



MAINTENANCE INTERVENTION CHART

INTERVENTION 1

Date

Technical Assistance

Type of intervention

Signature

INTERVENTION 2

Date

Technical Assistance

Type of intervention

Signature



MAINTENANCE INTERVENTION CHART

INTERVENTION 3

Date

Technical Assistance

Type of intervention

Signature

INTERVENTION 4

Date

Technical Assistance

Type of intervention