

# V-TUF<sup>®</sup>



## MAXI 50

### H-CLASS INDUSTRIAL VACUUM CLEANER

### OPERATOR MANUAL



Please read this manual before using the MAXI 50

## Accessories Supplied As Standard



POS	Parts No	DESCRIPTION
1	VTVS8000(5M)	HOSE - 5m (38mm) FOR MAXi & MAMMOTH STAINLESS VACUUM DUST EXTRACTOR - VTVS8000(5M)
2	BIO384WD	FLOOR HEAD - V-TUF 38MM VACUUM CLEANER 420MM Wet & Dry C/W WHEELS
3	WND/2	TUBE SET - 38MM STAINLESS STEEL 3 PIECE WAND SET V-TUF PROFESSIONAL
4	VTVS032	CREVICE TOOL - V-TUF 40mm - FITS MAXI & MAMMOTH RANGES
5	VTVS038	ROUND BRUSH - V-TUF 40MM FITS MAXI & MAMMOTH RANGES
6	VTVS8055	HOSE - 3m (38mm) FOR MAXi VACUUM DUST EXTRACTOR
7	VTVS7021U	V-TUF Cartridge ULPA Filter - for MAXI 50
8	VTVS055	V-TUF 50L Large Hepa Vacuum Cleaner Dust Bags - fits MAXi Range, Mammoth Stainless And Mammoth XLR (Pack of 5)

## Optional Accessories You May Need



**VTVS7024**



**VTVS7029**



**VTM135**



**GCX16-38**



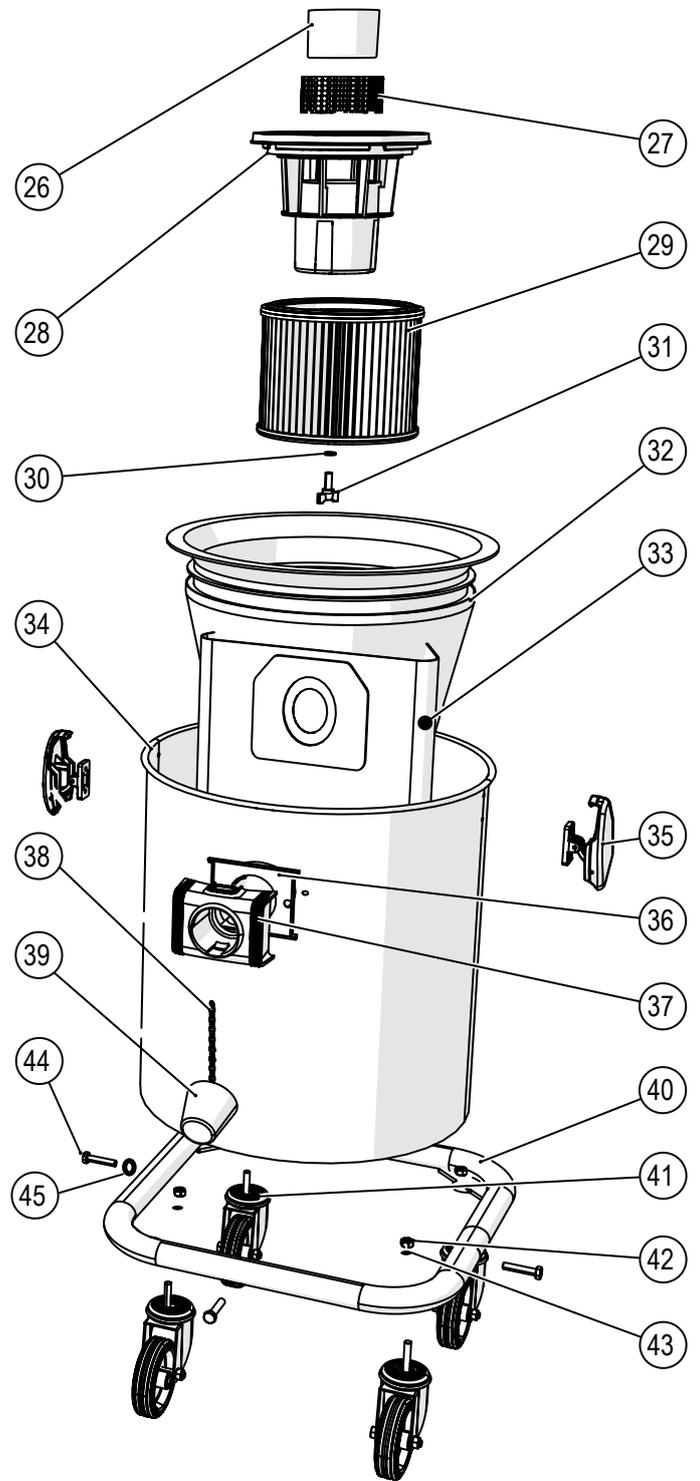
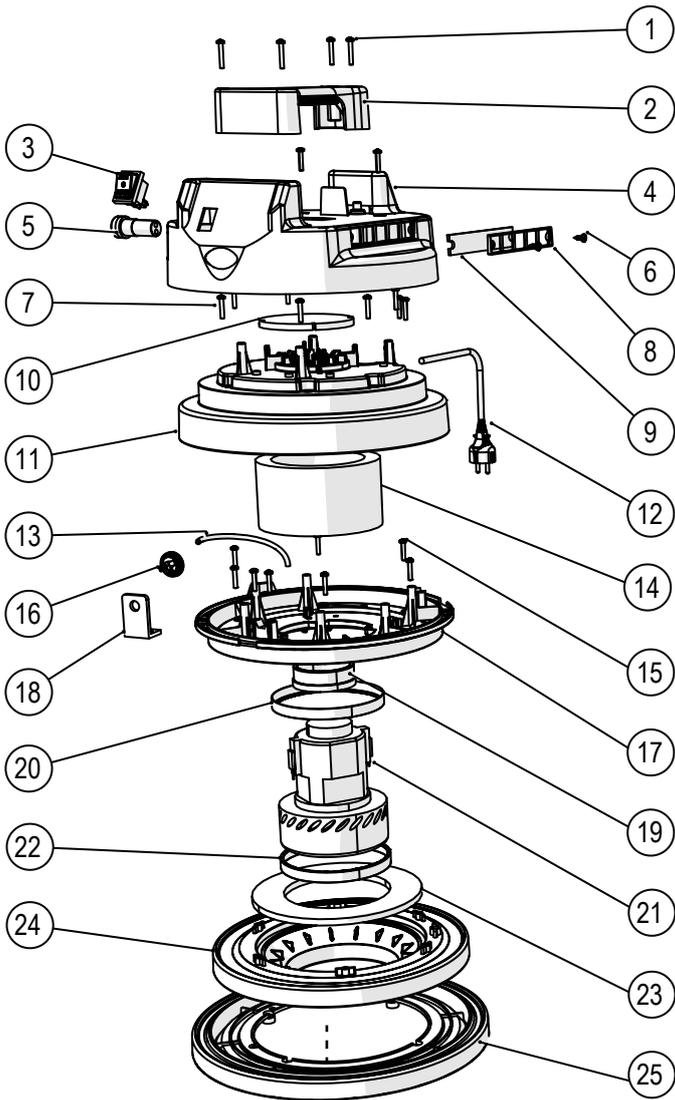
**GCX16-38PC**



**VTM160**

Parts No	DESCRIPTION
VTVS7024	HOSE - 32MM YELLOW & UNIVERSAL POWER TOOL ADAPTOR (WITH AIR FLOW CONTROL) - FOR MIGHTY, NEW MIDI, NEW MAXI 50, NEW MAXI 80
VTVS7029	5M HOSE - 32MM YELLOW & 4PCS POWER TOOL ADAPTOR KIT (WITH AIR FLOW CONTROL) - FOR MIGHTY, NEW MIDI, NEW MAXI 50, NEW MAXI 80
VTM135	V-TUF CORE DRILLING DUST EXTRACTION ATTACHMENT - Max Ø85mm
GCX16-38	V-TUF GCX ALU HIGH LEVEL INDOOR & GUTTER CLEANER KIT- 16ft (5M) REACH 38MM POLES
GCX16-38PC	V-TUF GCX ALU HIGH LEVEL INDOOR & GUTTER CLEANER KIT- 16ft (5M) REACH 38MM POLES - With Pipe Cleaning Tools
VTM160	V-TUF SYNERGY - 240V AUTOSWITCH WORKSHOP TOOL & VACUUM SYNCING SWITCH

## MAXI 50



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Pos.	Cod.	Q.ty	Description
1	VTVS7513	4	Self Tipping Screw 5x30 ZN
2	VTVS7492	1	Handle E.2
3	VTVC7422Y	1	SWITCH - SEALED & YELLOW V-TUF 'VRS' TYPE 10AMP
4	VTVS7478	1	Black Cover
5	VTVS7437	1	Light/Buzzer 230V~ + 110V~
6	VTVS7510	2	Self Tipping Screw 3,5x12 TC ZN
7	VTVS7512	6	Self Tipping Screw 5x25 TC ZN
8	VTVS7490	1	Plastic Grid L144mm
9	VTVS7448	1	Foam Filter 130x25x7mm
10	VTVS7163	1	Noise Foam H10mm - Ø110mm
11	VTVS7484	1	Black Motor Cover Ø345mm
12	12a I10.15 05C- 110V Cable 12b I10.16 05C- 240V Cable	1	5m Power Cord
13	VTVS7504	0,16/mt	Hose PUA95 Extra-Flex Ø6x4
14	VTVS7447	1	Sealed Filter MTP65/AU H=88 Ø160-120
15	VTVS7512	6	Self Tipping Screw 5x25 TC ZN
16	VTVS7431	1	Air pressure Switch
17	VTVS7480	1	Motor Holder Ø336 Black
18	VTVS7432	1	Anti-vibration support
19	VTVS7480	1	Motor Plastic Spacer Ring h=15
20	VTVS7455	1	"L" Gasket s/f H=5mm
21	21a VTVS7825- 240V Motor 21b VTVS7826- 110V Motor	1	Motor Double Stage By-Pass
22	VTVS7450	1	Plane Gasket H=3mm
23	VTVS7446	1	Washer MTP/65 Ø230x145x20 with 16Hole
24	VTVS7470	1	Yellow Double Stage Motor Base Ø436
25	VTVS7472	1	Black Base Adapter Ø370mm
26	VTVS7494	1	Float Ø80
27	VTVS7493	1	Circular Grid Ø92mm H40mm
28	VTVS7494	1	Float Supporting Ø168 with Nut and Gasket
29	VTVS7021U	1	Ulpa 15 Cartridge Filter Ø190 H155 mm
30	VTVS7453	1	Rubber Gasket NBR 15x7,8x2mm
31	VTVS7506	1	Cartridge Wingnut M8x20
32	VTVS8055	1	Polyester Filter Ø370mm
33	VTVS055	1	Polyester Bag

## MAXI 50

Pos.	Cod.	Q.ty	Description
34	VTVS7476	1	Stainless Steel Tank Ø370mm
35	VTVS7491	2	Black Complete Spring Hook
36	VTVS7164	1	Gasket inlet Ø48
37	VTVS7165	1	Inlet Ø48
38	VTVS7503	0,15mt	Metal Chain
39	VTVS7502	1	Stopper Ø48mm
40	VTVS7415	1	Metal Trolley
41	VTVS7498	4	Wheels Ø80mm with Nut
42	VTVS7517	4	Closed nut M10
43	VTVS7517	4	Washer M10
44	VTVS7517	4	Cross Screw M5x35
45	VTVS7517	4	Washer M5

## INTRODUCTION

Thank you for purchasing a product from the V-TUF Industrial Cleaning Equipment range. V-TUF is focused on research and development to make sure you are fully satisfied with your purchase. Please read this manual carefully and follow the instructions to ensure you get the best performance from this machine. Congratulations on your choice and we trust you will obtain satisfaction from using it.

## GENERAL INFORMATION

1. This manual has been included as an integral part of the appliance and should be carefully read through before using the machine.
2. Take the appliance out of its packaging and make sure it is in perfect condition, including accessories and any optional extras you have purchased from the V-TUF range.
3. Make sure that the electrical data of the appliance, shown on the label, corresponds to those of the mains supply.
4. The appliance must only be used with V-TUF accessories and spare parts as these ensure safe and perfect operation.
5. The manufacturer disclaims all liability for injury to persons and animals and damage to things due to the irresponsible use of the appliance and to the use of non-original accessories and spare parts.
6. The repair and/or replacement of the various component parts, especially electrical parts, must be done by skilled personnel.
7. The appliance is suitable for use in a range of applications: (hotels, schools, factories, shops, etc...)

## INSTALLATION

1. Check the position of the filter and the clips that fasten the head to the tank. Incorrect filter positioning can cause serious damage to the machine.
2. Fit the hose to the vacuum connector; fit the required accessory to the end of the hose. In the case of extractor models fit the pipe on the connector provided on the head and fit the required accessory to the end of the pipe.
3. Connect the power cable of the appliance to the power socket with switches on "0" (OFF POSITION).
4. To vacuum liquids, empty the dust from the container remove dust bag and ensure the cloth filter is fitted. After the vacuum has been used for wet use ensure the tank and cartridge filter is dry before vacuuming dry material.
5. Important: only refit the cloth filter to vacuum dust, so as not to cause problems to the appliance.
6. The noise level is below 85 dB(A)

## OPERATION INSTRUCTIONS

1. Ensure that there is sufficient ventilation for the machine and the operator
2. Make sure the machine on a sound and stable surface.
3. Ensure the machine is switched to the off position, connect to the correct and sufficient power source, switch machine on, use according to the guidelines and turn machine off after operation.

## IMPORTANT

1. The wet and dry machines feature a floating valve that interrupts the vacuum when the tank is full of liquid. When this occurs, turn the machine off and empty the entire contents of the tank.
2. Do not use your machine if it is not functioning correctly. Regularly inspect electrical leads and connections, filters and listen for unusual noises. If in doubt, contact your nearest service centre for advice.

## MAINTENANCE

1. The filter element can be blown clean, washed with water. Ensure that it is completely dry before the operation.
2. Replace the vacuum filter if it acquires holes, torn or damaged.  
Holes and/or cuts on the sides of the filter could allow transit of dust / materials and become the cause of serious damage to the user and surrounding people, and the appliance.
3. Check and free the blocked parts (vacuum pipes, connector, brushes, etc.) from any deposited materials.

4. If necessary, clean the tank and in any case, never leave dust or liquid residues in the tank for long periods of time.

**IMPORTANT INFORMATION**

Never use the machine if you are unsure, or become uncertain due to any faults of any kind, including those not mentioned in this manual.

**Technical Information**

<b>Model</b>	<b>MIGHTY HSV</b>
Capacity	50 Litres
Working Voltage	110 & 240 Volts
Motor Power	1700 Watts
Function	Wet & Dry Vacuuming
Air Flow Rate	215 M3/H
Cooling Mode	250mm
Tank Diameter	370mm
Height	250mm
Accessories	Ø38mm Accessories Kit
Power Cable	5m

**Safety Instructions**

These instructions are for the user's safety, and all users of the V-TÜF cleaning equipment should ensure to have read this literature before using the machine.

- Do not use with a damaged cable.
- Do not run over the cable.
- Should be inaccessible for children and pets.
- Do not use in the presence of flammable gasses.
- Do not clean up any hot material, e.g. ash.
- Always turn off the machine, and then unplug it, before you service the machine.
- Do NOT use this machine without the filters, as this is a health hazard and motor damage will also come as a result.

All repairs on V-TÜF products should be done by a V-TÜF service representative.

- If the machine shuts down, be sure to turn off the machine and unplug it before troubleshooting.
- For safety, the machine contains an electronic overload protection.
- Always turn off and unplug the machine when it is not in use.
- If any part of the appliance becomes damaged or fractured, it must be replaced by a V-TÜF engineer.

## SAFETY PRECAUTIONS

### Caution: what to do

1. All power conduction parts must be protected against water. SHORT-CIRCUIT RISK.  
2. All services or maintenance performed on the appliance must always be done with the plug disconnected from the power supply.  
3. Operation with a residual current circuit breaker provides extra protection for the operator ( $I_n=30$  mA).
4. Only ever use the appliance for the purposes for which it has been designed and manufactured. ACCIDENT RISK. 
5. If vacuum exhaust starts emitting water or foam, turn off immediately and waste level and ensure all correct filtration is present.

### Caution: what not to do

1. Do not leave the machine running and unguarded nor within reach of children, animals or persons that are not responsible for their own actions.

ACCIDENT RISK. 

2. Do not vacuum inflammable combustion substance (e.g.: hot ashes), explosive and toxic substances, electrostatic or substances that are dangerous for health. EXPLOSION OR

POISONING HAZARD   

3. Do not rest the vacuum inlet on or move this close to delicate parts of the body (eyes, ears, mouth, etc.). ACCIDENT RISK.  

4. Do not touch the plug and/or socket with wet hands. ELECTRIC SHOCK RISK.   



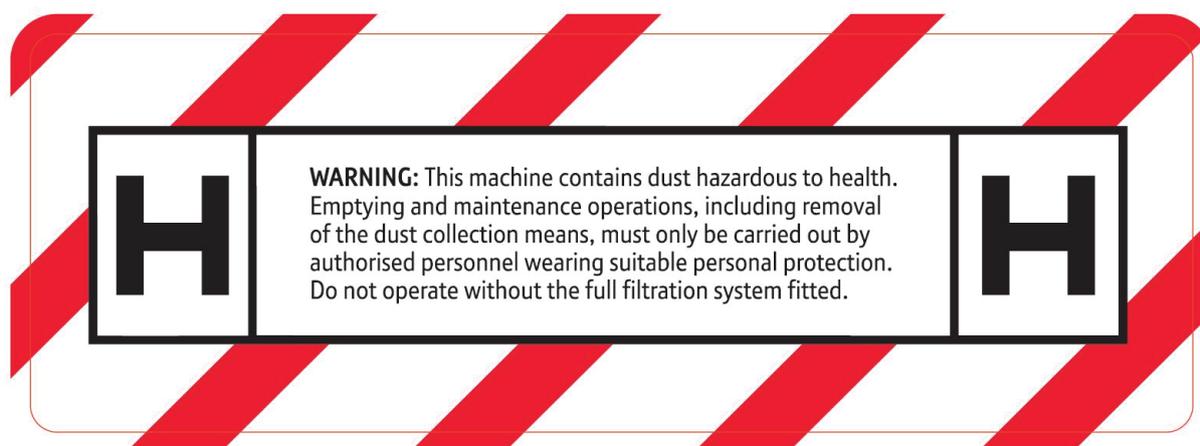
5. Do not soak the appliance or spray it with liquid substances. SHORT-CIRCUIT.

6. In the case of extractor models, only use detergents compatible with vacuum and pipe covering materials.

ACCIDENT RISK. 

7. Do not pull or lift the appliance using the power cable. SHORT-CIRCUIT RISK.  

## VACUUM CLEANER – CLASS H



### SAFETY INDICATIONS

#### Operator safety

This manual is to be considered as an integral part of the general user manual and provides the necessary instructions for the special class M dust vacuum cleaners.

Therefore the supplied general instruction booklet must be read beforehand.

In addition to the user instructions and the current regulations in the country of use, the sector's recognised technical regulations for the safe and appropriate use of this equipment must also be followed.

The UNI 10720 standard (Guidelines for selection and use of respiratory protective devices) establishes the guidelines for the criteria of selection, use and maintenance of respiratory protective devices

#### Transport and handling

##### ATTENTION

Be sure to close all of the dirt container's locking hooks before transport.

Do not turn the device upside down.

#### Possible uses for the vacuum cleaner

The vacuum appliances to which these user instructions refer are suitable for professional use and, in particular, for the control of dusts with an exposure limit value as per the class rating of the Vacuum cleaner. This is stated on the side of the tank. H CLASS

The collection of the following materials are forbidden:

- Incandescent materials;

- liquids;

- flammable and explosive dusts (for example, magnesium dusts, aluminium dusts, etc.);

The use of this device for the elimination of dusts must be performed in rooms or environments which are sufficiently ventilated whenever the device's exhaust returns into the environment itself. The user must respect the current national regulations in the country in which the device is being employed.

The equipment's end user must be read and understood for its use before beginning any work activities, taking note of the safe usage regulations. The user must also receive instruction regarding the dangers deriving from the aspirated materials and the methods for their safe disposal.

## **Maintenance, cleaning and repair**

Only perform the maintenance work described in this booklet on the equipment. In case of uncertainty, contact the dealer or an authorized service centre.

Before performing any cleaning or maintenance operations upon the device, remove both the electrical and compressed air power supply cables. Treat the device in a responsible manner so as to avoid creating situations which could be dangerous to both yourself, as well as to others.

A filtered, forced air ventilation system must be employed during maintenance activities. The user must wear any appropriate safety accessories during such operations, especially respiratory protection.

The environment in which maintenance activities are to be performed must be decontaminated in order to prevent the dispersion of hazardous substances into the surroundings.

When transporting the device away from or within an area that is contaminated with hazardous substances, the external portion of the device must be vacuumed and wiped down with a cloth before sealing it in an air-tight container.

Any parts which cannot be cleaned must be packaged in air-tight bags and/or disposed of in compliance with the current regulations for the disposal of hazardous substances in the country of use.

The manufacturer requires that the vacuum be subjected to an annual technical inspection.

This inspection may be performed by an authorised distributor's technician and must include the examination of the aspiration filters, the air-tight seals, as well as the signalling components/indicators.

## **DESCRIPTIVE INFORMATION**

### **Detailed use of the machine**

ATTENTION The vacuum cleaner is suitable for extracting dry non-flammable dusts, wood dusts and any hazardous dusts with MaK values  $0.1 \text{ mg/m}^3$  ( category M dust ). Based on the hazards presented by the dusts to be aspirated, the vacuum must be equipped with appropriate filters: see the following sections.

### **For the Pneumatic System:**

The device is designed to function at pressures ranging from a minimum of 4 bar to a maximum of 15 bar. Below 4 bar, the device's automatic start-up function is not guaranteed.

**Never exceed the 15 bar pressure limit.**

## **BEFORE FIRST USE**

### **Vacuum assembly and testing**

Before using the device, check that:

No foreign elements are present within the container.

Ensure that the head is fastened down with the head clips. This guarantees an air-tight seal.

The relevant filters and bag have been installed. The bag is equipped with a membrane seal which must be fitted over the internal slot of the tank intake. It also has a complete orifice seal tag which must be applied once the used bag is removed from the tank intake for safe disposal. This is important to ensure that the contained dust does not escape.

The hose is correctly connected to the tank.

the machine is connected to the correct electrical supply.

### **Initial working phase check**

Before beginning to vacuum dusts with MaK values, check that the filters fit properly within the device and that they are positioned correctly.

Once the vacuum has been activated, block the aspiration tube and check whether an acoustic signal sounds. The acoustic signal is activated when the speed of the air within the tube falls below 20m/sec. This must be calibrated.

In normal usage conditions, the acoustic signal turns on to signal a reduction in pressure / air flow. Once this sounds the filter must be cleaned and the bag must be replaced. The scientific health reason is that dangerous dust does not remain airborne once air velocity drops below 20m/sec.

## USE OF THE DEVICE

ATTENTION The aspiration of flammable dusts/substances is forbidden.

The sector's reference standard, EN 60335-2-69/A1:2004, lists the dusts which present a risk of explosion when brought into contact with ignition sources.

A filter bag must always be inserted into the container when the device is to be employed for vacuuming dry substances with MaK values.

For innocuous dusts, a lower-performance paper filter bag is also available.

## FILTER BAG REFERENCE TABLE:

CODE	DESCRIPTION	VACUUM MODEL
VTVS7021U	Cartridge ULPA Filter	MAXI 50
VTVS055	Polyester Filter Bag	MAXI 50



ATTENTION

The dust collection bag must not be filled past  $\frac{3}{4}$  of their capacities. Check periodically during use. Do not vacuum liquids or particularly humid substances while the bag filters are installed.

## END OF WORK ACTIVITIES

After hazardous dusts have been vacuumed, the user must open the vacuum.

Disconnect the device's power supply by removing its electrical plug from the outlet.

Empty the container and clean the vacuum.

Store the vacuum in a safe place where it cannot be accessed by unauthorised personnel.

## MAINTENANCE: FILTER REMOVAL



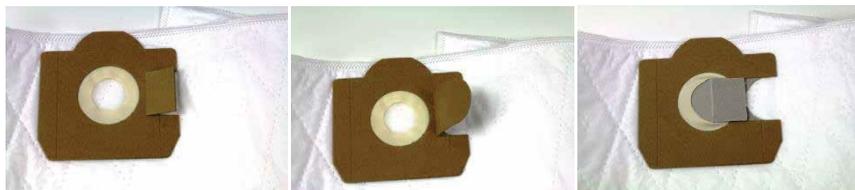
ATTENTION

Be careful to not stir up dusts when performing cleaning operations, filter checks or filter replacements. Use a protective mask. Or a V-TUF filter cleaning box.

## Replacing the filter bag

Undo the head clips and remove the head.

Remove the used filter bag and close the inlet with the tag as shown below. Dispose of the bag in the correct manner.



Fit the new filter bag, making sure that the bag's membrane seal fits perfectly over the internal slot of the tank inlet and that the bag fits neatly around the edge of the tank internal. Refit the head ensuring that the clips are completely closed and there is no parts of the dust bag exposed.

### Emptying the dirt from the container



ATTENTION The container can only be emptied when the device has been employed for vacuuming innocuous dusts without the use of a filter bag.

Remove the device's cover, turn the container upside down and empty it.

The waste materials must always be disposed of in compliance with the current local laws.

### Replacing the filtering element

Open the closure hooks, lift the vacuum's cover from the container and set it down with the filtering system oriented upwards (use the container as a support surface if necessary).

Unlock the plastic anti-impact basket, by turning it counter clockwise, and extract it; unscrew the tightening knob; slowly remove the filter, placing it in a bag with an air-tight seal. Dispose of the used filter in compliance with the current local laws.



Clean the areas covered by the filter and insert a new filter by following the removal procedure above in the opposite order.



ATTENTION Never use the vacuum without a filter installed.

**TROUBLESHOOTING**

<b>PROBLEM</b>	<b>PROBABLE CAUSE</b>	<b>PROBABLE SOLUTION</b>
The machine does not start	No current.	Check main fuse, power cord, plug and outlet.
The machine suddenly stops	Because of overheating, the thermal protection turns the Machine off (feature only available on extraction machines).	After the machine has cooled down, you can turn the power on again and begin to use the appliance again.
Reduced suction power.	Filter, nozzle, hose or tube clogged.	Check and clean
Suction power suddenly drops	Tank full.	Stop the machine and empty the tank.
RED LIGHT/BEEPER SHOWING	Blocked hose, Blocked poles, Blocked floor tool. Full Bag, Blocked filter. Power tool has poor airflow allowance.	Shake item with the blockage to dislodge items causing the issue. Change bag. Clean filter.

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