

V-TUF



tufVAC

M CLASS / H CLASS DUST EXTRACTOR

Instruction Manual



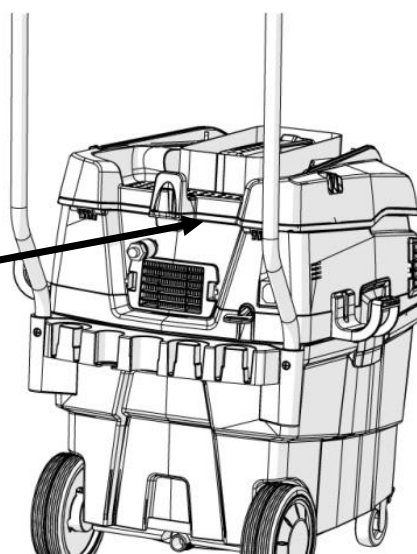
Please read this manual before using the tufVAC

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TECHNICAL SPECIFICATIONS

MODEL	TUFVAC30M240	TUFVAC30M110	TUFVAC30H240	TUFVAC30H110
NUMBER OF MOTORS	1	1	1	1
STAGES	2.	2.	2.	2.
MOTOR TYPE [V-Hz]	220-240 50/60 BY	110 50/60	220-240 50/60 BY	110 50/60
COOLING	PASS	BY PASS	PASS	BY PASS
MAX POWER [kW]	1.4	1.25	1.4	1.25
ELECTRIC TOOL MAX [kW]	2.0	2.0	2.0	2.0
WATERLIFT [Mbar]	245	245	245	245
FILTER SURFACE AREA [m2]	14	14	14	14
AIR FLOW RATE [L/s]	56	56	56	56
AIR FLOW RATE [m3/h]	258	258	215	215
SOUND PRESSURE [dB(A)]	60	60	60	60
TANK CAPACITY [l]	35	35	35	35
FILTER SHAKER	AUTOMATIC	AUTOMATIC	CONTINUOUS	CONTINUOUS
WEIGHT [kg]	18.6	18.6	18.6	18.6
DIMENSIONS [mm]	390x550x585*	390x550x585*	390x550x585*	390x550x585*



*The extended handle shown is not provided as standard and must be purchased separately

1 INTRODUCTION

This manual covers the technical specifications, performances, transport and installation rules, instructions for use and preventive and corrective maintenance operations of the TUFVAC WET & DRY VACUUM CLEANER manufactured by V-TUF.

After consulting the manual, keep it in a readily accessible place. V-TUF reserves the right to charge a fee for the supply of any additional copies of this manual and request the Customer to accept special clauses referring to the legitimate defense of the property, patent and functional design and manufacturing rights associated with the product and/or its parts. V-TUF reserves the right to make changes to the manual without prior notice. Full or partial reproduction of the contents of this manual (text and images) without the written consent of V-TUF is strictly forbidden.

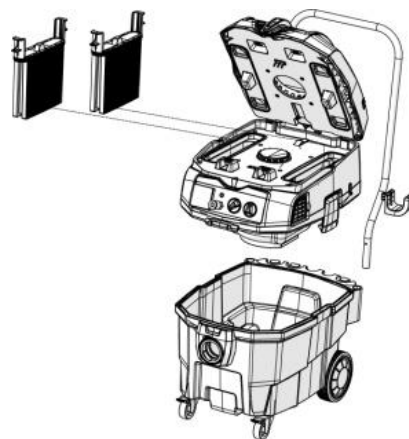
Any modification, addition or bypassing of parts, components, functions or cycles of the TUFVAC not previously agreed with V-TUF relieves the manufacturer of any liability. This Use and Maintenance Manual is the property of V-TUF. This manual has been prepared for the uses permitted by law; any other use by third parties will be punished in accordance with the laws in force.

NOTE: This manual shall be considered an integral part of the TUFVAC and accompany it throughout its entire service life. This manual is a integral part of the TUFVAC in the sense that the reading and understanding thereof are mandatory for the correct and safe use of the product.

V-TUF shall not be held liable for any damage resulting from incorrect installation or improper use of the product.

2. PACKAGE CONTENTS

- 1.Remove the appliance from the packaging; check its condition and make sure that it has all the accessories specified in the purchase order;
- 2.Make sure that the power supply line matches the electrical specifications on the appliance nameplate. If the appliance nameplate is missing, please contact your authorised dealer;
- 3.Make sure that the appliance has not been damaged during transport. **If it has, please notify the courier about the damage immediately.**
- 4.Make sure not to damage the appliance while removing it from the case.



3 PRECAUTIONS FOR USE

V-TUF declines all liability and provides no warranty in case of even minimum tampering with and/or modifications to the purchased product aimed at obtaining different performances or using the product for purposes other than that for which it was designed.

The product is made only of materials and parts that meet the CE safety standards and their technical data sheets and certifications can be found at v-tuf.co.uk.

1. Read this manual before turning the vacuum cleaner on;
2. Make sure that the personnel who will use the vacuum cleaner have read the instruction manual;
3. Check that the vacuum cleaner has not been hit or damaged during transport;
4. Use the PPE recommended by the employer;
5. Stay at a safe distance from the vacuum cleaner suction mouth;
6. Avoid getting close to the suction mouth while wearing loose or torn garments or any other accessories that might get sucked into the vacuum cleaner;
7. Make sure that the filter is installed and is working properly; change it once a year;
8. Use only appropriate cleaning products;
9. The machine does not require lubrication;
10. Do not use compressed air for cleaning;
11. Use the handles to move the vacuum cleaner around;
12. Avoid using the vacuum cleaner in environments with temperatures below -10°C and humidity of around 70%;
13. Do not point the suction head at persons or animals;
14. This machine is not intended to be used by inexperienced or untrained persons or by persons, including children, with reduced physical, sensory or mental abilities;
15. The appliance shall be used only by persons who have read this manual in its entirety;
16. This machine is intended for commercial use, i.e. for use in hotels, schools, hospitals, factories, shops, offices and commercial establishments;
17. ATTENTION This appliance must be used indoors;
18. ATTENTION This appliance must be stored indoors.

When using the machine, pay attention to any persons or objects that may hinder its movement.

**WARNING!**

Improper uses may lead to danger of electrocution

1. All conductive parts shall be protected against water splashes;
2. Protect the vacuum cleaner from rain;
3. Use the appliance only for the purposes for which it was designed and manufactured;
4. Make sure that the electrical system to which the vacuum cleaner is connected is suitable and working properly;
5. Make sure that the power supply voltage and frequency match the technical specifications of the vacuum cleaner;
6. Do not turn the machine on if you suspect a failure;
7. Check the condition of the control panel;
8. Do not pull the power cord;
9. This appliance is not suitable for hazardous dust; do not use this machine in ATEX areas;
10. Never leave the appliance unattended while on. Do not leave the appliance unattended on stairs or in places where it may lose its balance;
11. Disconnect the appliance from its power source before cleaning or servicing operations and when replacing spare parts.

4 USE

The range of machines model TUFVAC features single-phase motors suitable for continuous use.

The machine is mounted on sturdy wheels with brakes.

The machine is designed to remove dust and processing residues.

The machine cannot be used to vacuum up hazardous, explosive dusts and/or explosive gases.

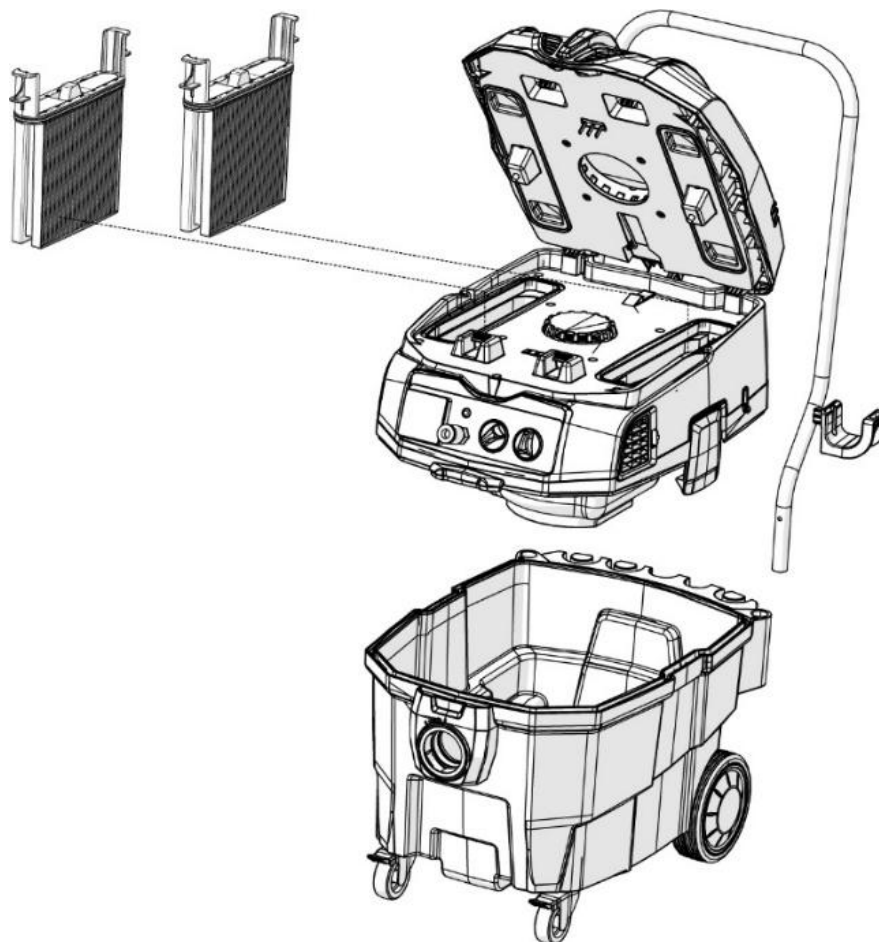
Do not use the machine to remove corrosive, explosive and/or hazardous liquids.

Any other use shall be considered improper and, therefore, a source of danger, as it may result in property or equipment damage and personal injury.

Any operation that is not related to the normal working cycle of the machine is to be considered improper; any maintenance work, repair, brush change, etc., shall be carried out with the machine switched off and disconnected from the power supply.

The main operations to be performed on TUFVAC are described below:

4.1 PART IDENTIFICATION



1. SUCTION HEAD with FILTER COMPARTMENT;
2. Pair of FILTERS (built into their housing);
3. COLLECTION TANK with WHEELS and ACCESSORY holder (fig. a);
4. HANDLE and SIDE HOSE HOLDER (fig.b);

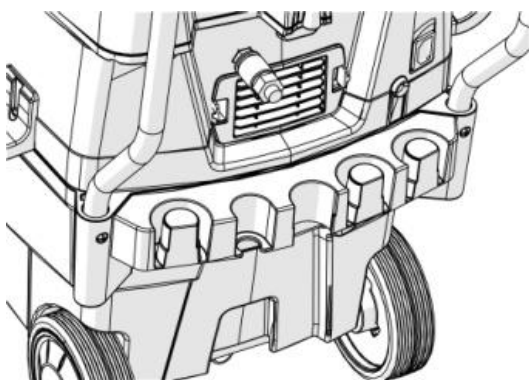


fig.a

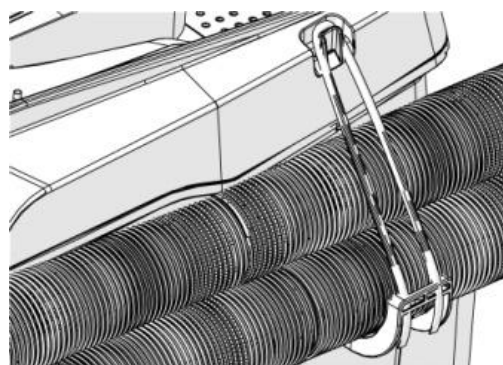


fig. b

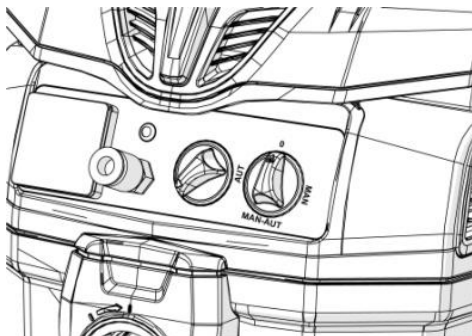


Fig. 1

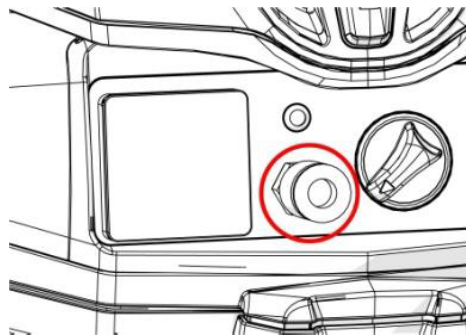


Fig. 2.

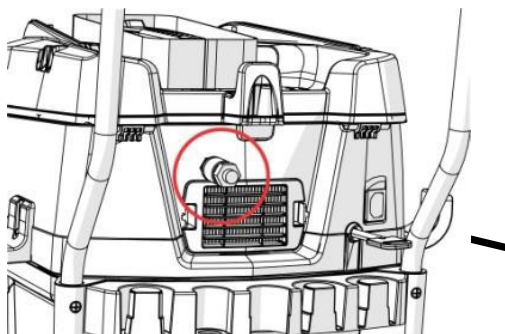
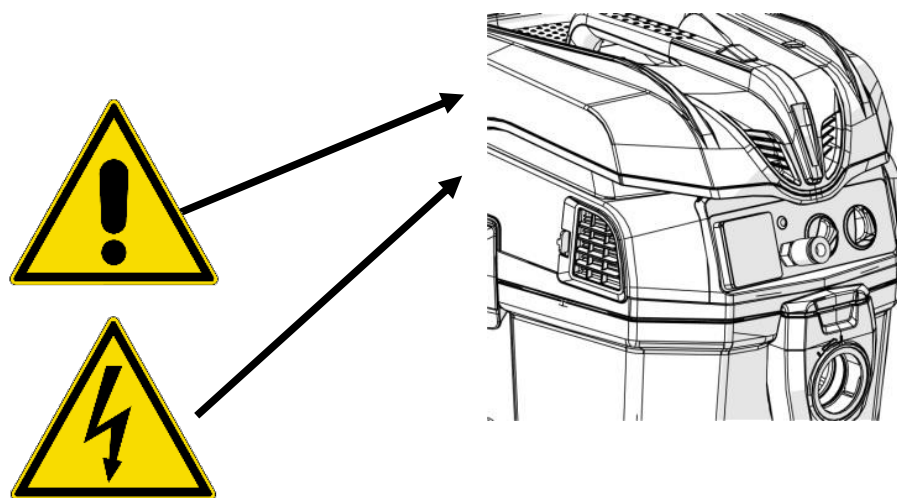


Fig.3

5. TUFVAC CONTROL PANEL in fig.1;
6. TUFVAC CONTROL PANEL in fig.2 (the circled AIR out intake is missing);
7. NEUMATIC TOOL INLET in fig. 2
8. COMPRESSED AIR INLET in fig. 3



4.2 PRELIMINARY OPERATIONS

The operations to be performed before using the vacuum cleaner are described below.

4.2.1 Filter assembly and positioning control

Before using the appliance, open the filter compartment as shown in fig. 1 and check that the filters are correctly positioned, as shown in fig. 2. Lightly push both filters to make sure that they are perfectly fitted. Close the upper compartment and reinsert the lock key. The key prevents the compartment from opening if the button on the handle is pressed by accident.

As shown in fig. 3, the dust collection bag (always recommended to dispose of the collected materials in accordance with the rules and regulations in force) must be fitted inside the guides of the lower drum. The hose must be detached when inserting the bag.

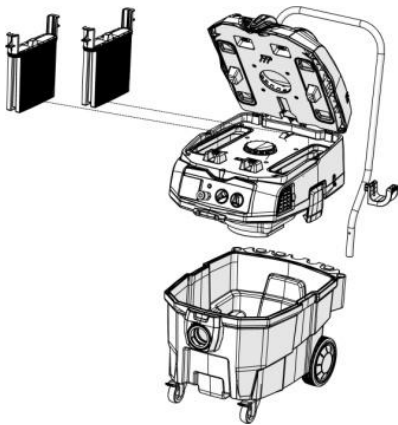


Fig. 1

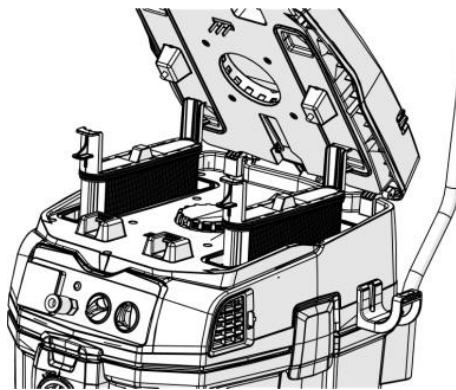


Fig. 2

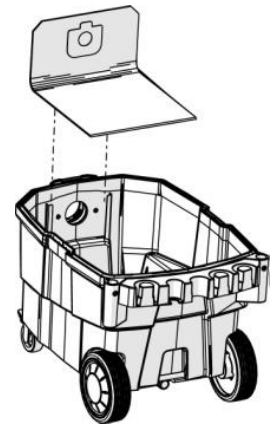
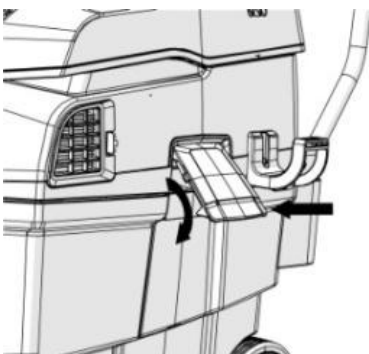


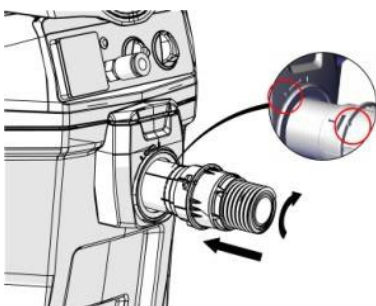
Fig. 3



4.2.2 Connecting the Suction Head to the Lower Drum

After performing the checks and steps described in the previous paragraph, place the upper cover over the lower drum, as shown in the figure.

Make sure that the 2 latches are firmly in place.



Connect the suction hose to the drum inlet: on the rotating sleeve of the suction hose is an arrow that must be properly aligned when connecting the hose. After inserting the hose, rotate it by 30° towards the right to lock it in place.

4.2.3 Optional accessories

The manufacturer offers a kit of standard accessories and another kit of additional accessories such as:

<p>5M HOSE Code: H1/5Y</p>		<p>ROUND BRUSH Code: VLX10</p>	
<p>CREVICE TOOL Code: VLX15</p>		<p>32mm Tube Set Code: WND/1</p>	
<p>32mm Hose End Adaptor Code: NUM74QR</p>		<p>REINFORCED POLYESTER BAG x1 Reorder code VTVS3001 x5</p>	
<p>Powertool Adaptor set Codes:</p> <p>A - VTM1323 B - VTM130 C - VTM1322 D - VTM1324</p>		<p>Upholstery Tool Code: VLX13</p>	
		<p>420mm Floor Head Code: BIO324WD</p>	

A. Internal Diameter 20mm - END Outer Diameter 31 mm, Mid Outer Diameter 36.1 mm, Max Outer Diameter 39mm

B. Internal Diameter 26mm - END Outer Diameter 35 mm, - END Outer Diameter 40 mm

C. Internal Diameter 33mm - END Outer Diameter 41.5 mm

D. Internal Diameter 38mm - END Outer Diameter 48.5 mm

4.2.4 Connection to the mains

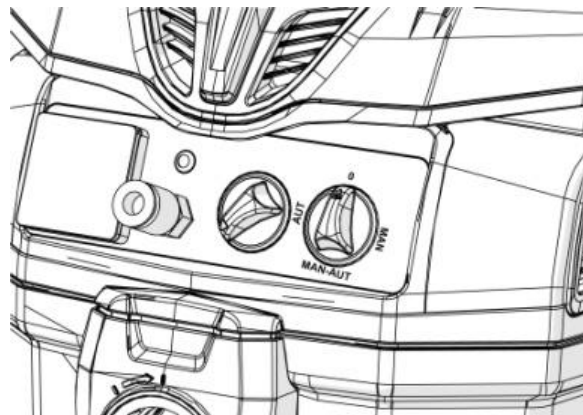
Make sure that the power supply specifications match the machine specifications; after making sure that the power source is compatible with the machine, proceed as follows:

5. Make sure that switch 0 is set to 0 = OFF;
6. Connect the plug to the appropriate electrical system;
7. Connect the desired accessory;
8. The machine is ready to be started.

4.3 COMMISSIONING and START-UP

4.3.1 Control station

The machine is equipped with a station from which the operator can control its functions. All the controls are located on the front panel and have been designed to be easily understood and used by the operator.



1. MAIN FOUR-POSITION START BUTTON

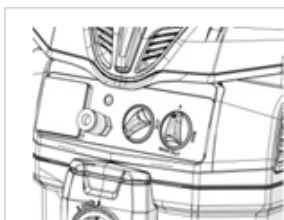


Fig.1



Fig.2



Fig.3



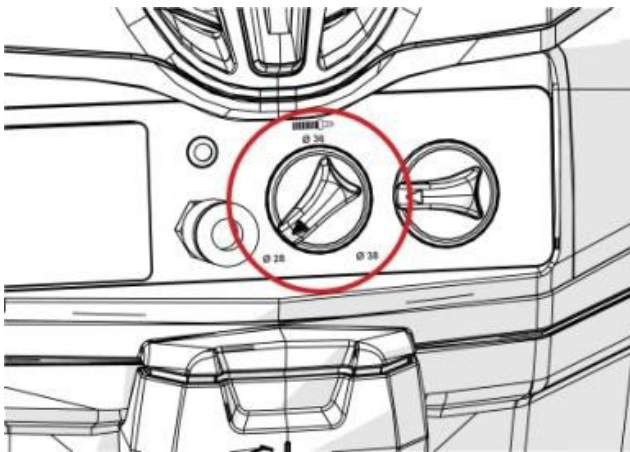
Fig.4

- Position 0 = OFF: the machine is off (fig. 1);
- MAN position (fig. 2): after 1 second, the suction function starts in the soft start mode. During suction, if the filter is clogged, the filter cleaning function will automatically start without interrupting the work cycle. If the maximum content level is reached while vacuuming up liquids, the vacuum cleaner stops automatically. In this case, the buzzer and the indicator light on the control panel turn on. If the buzzer emits an intermittent sound, the dust bag is probably full or the hose is blocked by bulky debris. Turn the machine off, unplug it and solve the problem by emptying the bag or removing the obstruction from the hose.
- MAN-VBR position (fig. 3): the same as the previous point except that the vacuum cleaner performs a preventive filter cleaning cycle at start-up. The appliance can be used as usual during filter cleaning.
- AUT position (fig. 4): just like the MAN position as regards the related functions except that the suction function starts only when the power tool or the pneumatic tool connected to the vacuum cleaner is turned on.

2. HOSE REGULATOR

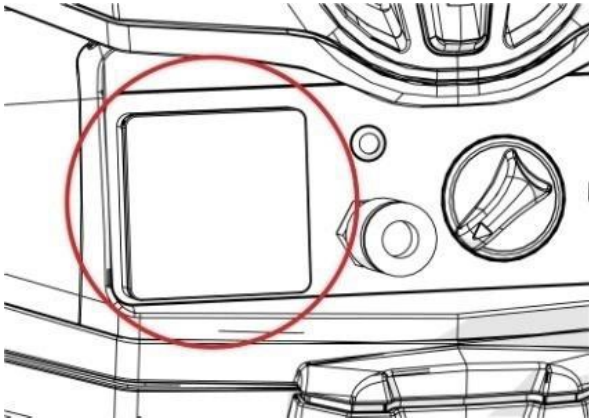
The hose regulator shall be set according to the diameter of the hose being used. The hose dimensions compatible with this machine: Ø28mm, Ø36mm and Ø38mm.

Its function is to provide the correct internal adjustment to the pressure sensor that controls the status of the bag (whether or not it is full) and/or the clogging of the hose.



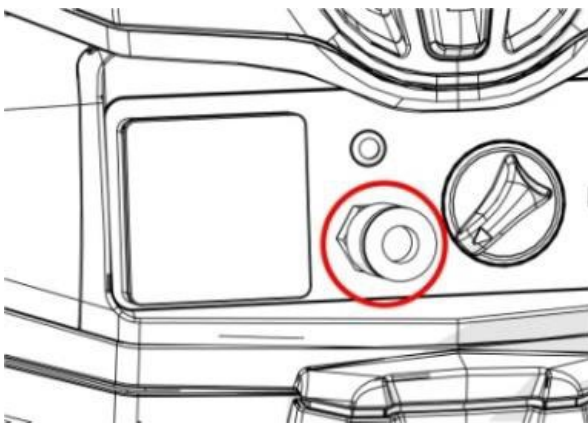
3. POWER TOOL SOCKET

By connecting a power tool to the socket (shown in the figure below) available on the vacuum cleaner and inserting the suction hose, the tool debris will be vacuumed up into the drum. The vacuum cleaner internal electronic board synchronises the start of the suction function with that of the tool. Once the tool is off, the suction function stops automatically within 2".



4. AIR INTAKE (OUTLET - OUT) FOR THE PNEUMATIC TOOL

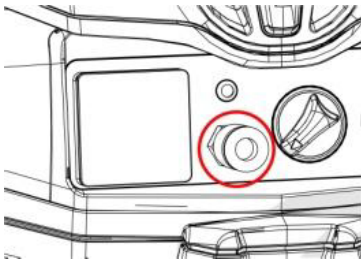
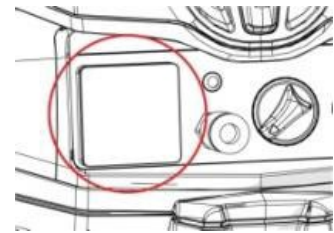
By connecting a pneumatic tool to the outlet (shown in the figure below) available on the vacuum cleaner and inserting the suction hose, the tool debris will be vacuumed up into the drum. The vacuum cleaner internal electronic board synchronises the start of the suction function with that of the pneumatic tool. Once the tool is off, the suction function stops automatically within 2".



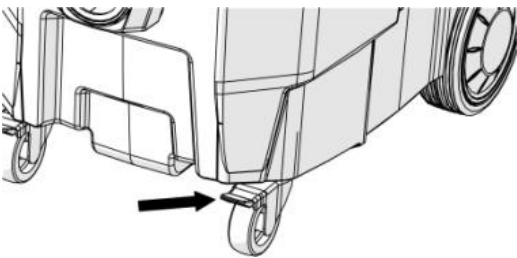
4.4 USE

4.4.1 Operations to be performed

1. Make all the adjustments described in the previous paragraphs;
2. check that the vacuum cleaner is correctly plugged in;
3. check that the air supply line is correctly connected to the inlet
(we recommend connecting the air intake hose only if the air supply has been previously cut off; use a system intake fitted with a regulator (which usually should be set to 7 - 8bar) equipped with condensate filter.
4. Where applicable, connect the power tool to the socket
5. Where applicable, connect the pneumatic tool to the intake; we recommend connecting the pneumatic tool hose only if the air supply has been previously cut off.



6. To ensure that the appliance remains stationary on inclined surfaces, lock the front wheels using the corresponding brake.



7. Start the machine by setting switch 0 to the desired function (see the previous paragraph for the functions of the control panel).

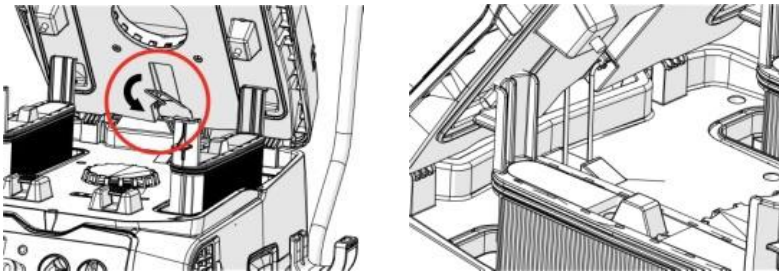
4.4.2 Machine warning signals

During use, the electronic system may provide the following warning signals: -

-Clogged filters: if the filters are clogged, the machine runs an automatic filter cleaning cycle. If the suction function does not return to the levels set by the pressure sensor after five consecutive cleaning cycles, the machine blocks the suction function and the warning indicator lights remain on.

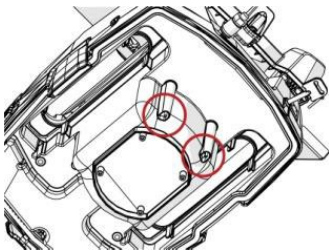
Remove the filters, clean them with a soft bristle brush or with another vacuum cleaner (do not use compressed air). If the filters have reached 200/300 operating hours or have been used for more than one year, replace them.

The upper compartment is equipped with a locking system at the back that keeps it safely open during inspection.



- Bag full or debris in the suction hose: the buzzer and the indicator light generate intermittent signals and the suction function does not stop. Turn off the machine, replace the bag and/or remove the debris from the hose.

- Collection container full during liquid suction: if the container collects approximately 20 l of liquid, the level probes (figures below) detect the liquid and stop the suction automatically. The buzzer and the indicator lights remain on.

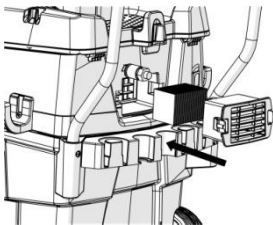
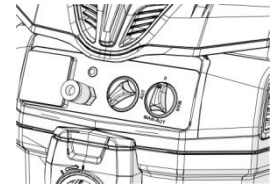


4.5 END OF WORK PROCEDURE

4.4.1 Operations to be performed

At the end of the work, perform the following operations:

1. stop the machine by setting switch 0 to position 0 = OFF;
2. remove any accessories;
3. cut off the power supply to the machine by unplugging it from the mains.
4. Empty the drum; remove the dust bag if it weighs more than 10kg or if damaged/torn by debris and install a new one.
5. Check the filter condition and do not leave them wet or damp inside the vacuum cleaner: if necessary, remove them as shown in the previous paragraphs and allow them to dry.
6. Clean the outlet air filter at least once every 10 operating hours: the presence of dust inside this outlet filter is an indication that the machine filter system does not work perfectly and must be checked by an authorised centre (or in-house by checking first of all the condition of the main filters).



DECOMMISSIONING

If the product is to be stored for a long period of time, store it away from atmospheric agents, therefore, indoors if possible.

Moreover:

1. Drain the dirt contained in the recovery tank according to the regulations in force;
2. Check the condition of the filter regularly.

Before using the appliance again, clean the TUFVAC adequately and carry out a thorough visual inspection to check its condition. All the checks and inspections to be carried out are listed in the previous paragraphs; pay particular attention to filter cleaning and to checking the condition of the electrical parts.

Improper uses may lead to danger of electrocution



WARNING!

1. Do not leave the appliance unattended while on, nor within the reach of children, animals, or persons who are not aware of their actions;
2. Do not use the vacuum cleaner to remove combustible, flammable (e.g. hot ashes), explosive, toxic, electrostatic substances or substances that are hazardous to the health of the user;
3. Do not touch the plug and/or socket with wet hands;
4. Do not immerse and do not splash the appliance with liquid substances;
5. Do not pull or lift the appliance by its cord;
6. Do not use the appliance if unsure of its condition or under failure conditions of any kind, even if not mentioned in this manual.



CAUTION!

Failure to comply with the maintenance and cleaning rules may cause irreparable damage to the machine.

6 MAINTENANCE AND CLEANING

For optimum results every time and to ensure the correct operation of the appliance, we recommend servicing and cleaning it periodically to prevent the alteration of the requirements for which it was created over time.

V-TUF has identified the maximum period of time within which it is recommended to carry out a thorough inspection on the machine as being 400 operating hours (or at most 1 calendar year).

IMPORTANT: Routine and extraordinary maintenance shall be carried out by qualified personnel, with the power supply cut off. The spare parts must be original.

6.1 Cleaning the machine

Cleaning the machine is very important to maintain its full efficiency.

The machine can be cleaned using dry cloths and compressed air for hard-to-reach areas. Do not use compressed air on the main filters.

6.1.1 Cleaning the recovery tank

Cleaning the recovery tank is essential to avoid encrustations and accumulations of solid material inside it. Proceed as follows:

1. Switch the machine off;
2. Remove the dirt and dispose of it properly;
3. If necessary, wash the tank.

6.1.2 Cleaning the filter

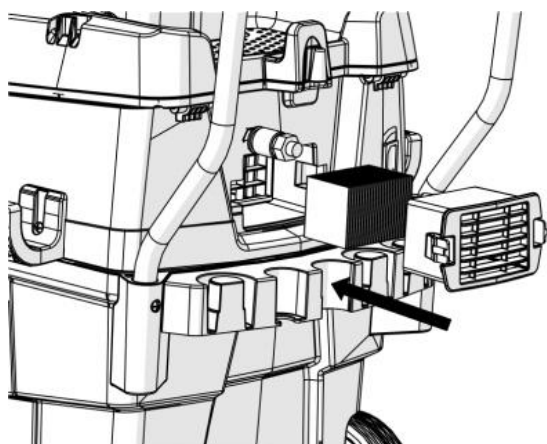
The main filters in PTFE treated polyester are HEPA certified; therefore, the machine is an M-Class appliance;

The TUFVAC is equipped with an automatic filter shaker that maintains the efficiency of the machine over time.

Replace the filters regularly, at least once a year. **Use only original spare parts.**

6.1.3 Cleaning the motor cooling air filters

Vacuum up (if possible, using another vacuum cleaner) the dirt accumulated on the filter at the back of the head: keep the filter clean to ensure the proper operation of the motor.



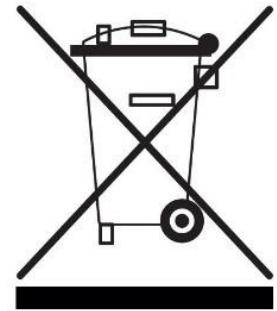
7 TROUBLESHOOTING

POSSIBLE MALFUNCTIONS AND HOW TO SOLVE THEM	FAULT	CAUSE	SOLUTION
	The appliance does not start	No power supply or damaged main switch	Check the position of the plug in the power outlet. Visually check the main switch: if damaged, contact a specialist technician
	Operation stops	The tank is full	Check and empty the recovery tank. The vacuum cleaner stops automatically if this happens while vacuuming up liquids.
	The suction power decreases	Clogged suction hose or accessories. Full bag.	Check and clean the suction hoses. Replace the dust bag.
	The suction power drops abruptly	The tank is full; the suction hoses are clogged	Check and empty the tank; check and clean the suction hoses
	Suction stops	The clogged filter warning is on and the filter shaker cannot clean them.	Turn off the machine and clean the filters with a soft brush. Start the vacuum cleaner.

DIRECTIVE 2011/65/CE ON THE TREATMENT, COLLECTION, RECYCLING AND DISPOSAL OF ELECTRICAL AND ELECTRONIC EQUIPMENT AND THEIR COMPONENTS. INFORMATION:

1. FOR THE EU COUNTRIES

The disposal of electrical and electronic equipment as solid urban waste is strictly prohibited: it must be collected separately. Disposing of these devices in non-equipped and unauthorised places may have a negative impact on both health and the environment. Violators will be sanctioned according to the law.



FOR CORRECT WASTE DISPOSAL:

a. Contact the Local Authorities who will provide you with relevant information and instructions on how to use the waste collection centres correctly, for example: locations and business hours of the authorised disposal centres, etc.

b. When buying one of our appliances, hand over an appliance similar to the one you are buying from our dealer for proper disposal. The symbol of the crossed out dustbin on the appliance indicates that:

- when the time has come to dispose of the appliance, it must be taken to an authorised disposal centre and collected separately from municipal waste.
- The manufacturer guarantees the initiation of the treatment, collection, recycling and disposal procedures in compliance with Directive 2011/65/CE (as amended).

2. FOR NON-EEC COUNTRIES (OUTSIDE THE EUROPEAN UNION)

The treatment, collection, recycling and disposal of electrical and electronic equipment shall be carried out in accordance with the laws in force in the countries in question

DECLARATION OF CONFORMITY

**The Manufacturer****V-TUF**

Unit 5 Chris Sharp Building, Tillbridge Lane, Scampton,
Lincoln, LN1 2SX UK

We: declares that the product complies with the following provisions of the EU Directives:

- MD, 2006/42/CE
- EMC, 2014/30/UE
- LVD, 2014/35/UE
- WEEE, 2012/19/EU
- RoHS, 2011/65/CE

and complies to the following standards or product standards:

- UNI EN ISO 12100:2010
- IEC 60335-1:2010+A1:2013+A2:2016
- IEC 60335-2-69:2016
- IEC 62233:2005
- EN 55014-1:2006+A1:2009+A2:2011
- EN 55014-2:2015
- IEC 61000-3-2:2014
- IEC 61000-3-3:2013
- IEC 61000-3-11:2000

ME: EUGENE BUCHNER**POSITION: TECHNICAL MANAGER****SIGNED:**

DATE:17/06/2024

V-TUF

Unit 5 Chris Sharp Building,
Tillbridge Lane, Scampton,
Lincoln, LN1 2SX UK

GB

We hereby declare that the machinery described above complies with the relevant basic health and safety requirements of the UKCA & EU Directives, both in its' basic design and construction. This declaration shall cease to be valid if the machine is modified without our prior approval

[illegible]

NOTES

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NOTES

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www.V-TUF.COM