

V-TUF



RUCKVAC-ION

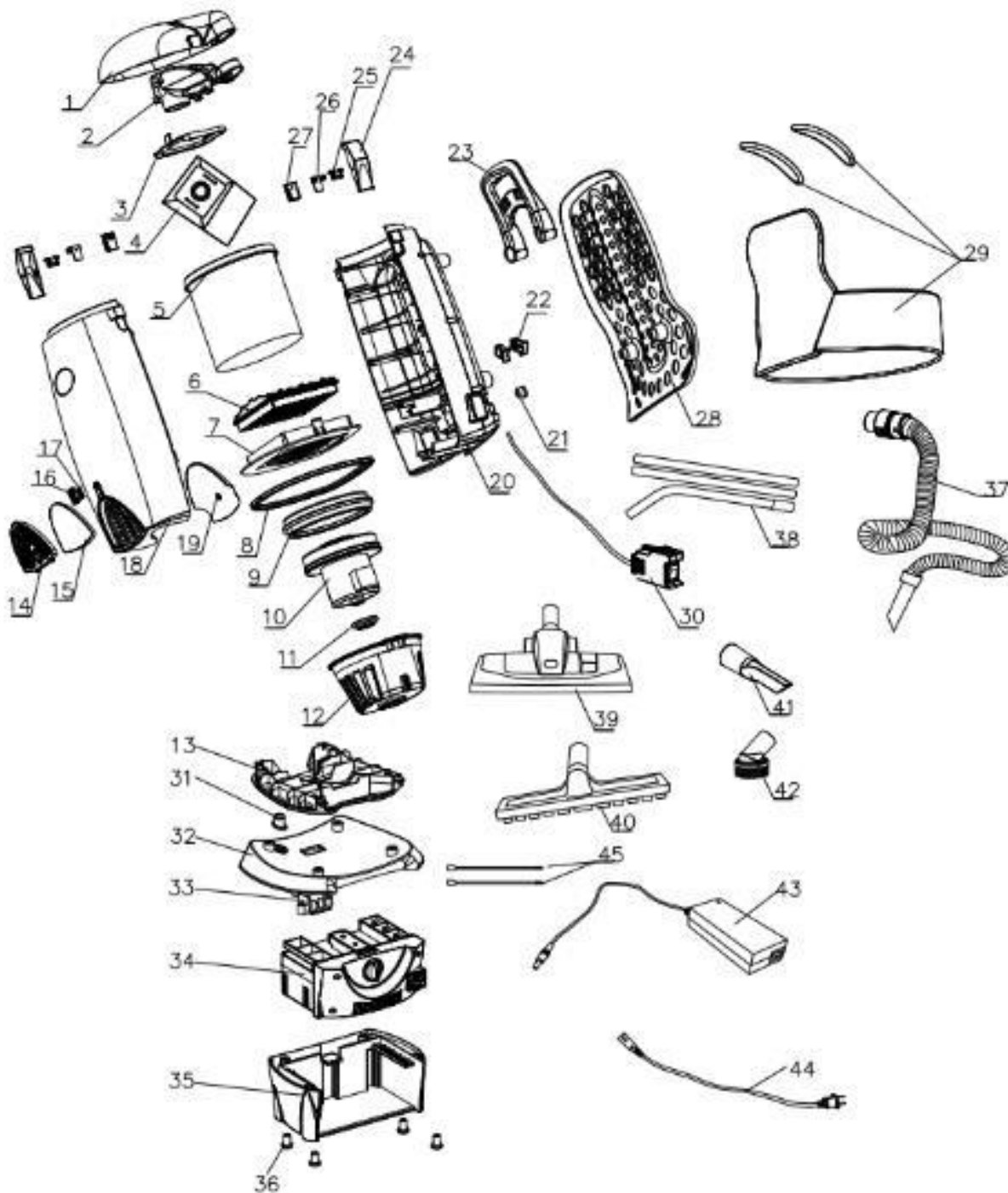
OPERATOR MANUAL



Please read this manual before using the RUCKVAC Cordless Vacuum cleaner
Errors And Omission Excused. Specification May Change Without Notice. Please Refer To www.v-tuf.com For
The Latest Version.

INDUSTRIAL VACUUM CLEANER

V-TUF® RUCKVAC ION - BATTERY POWERED



PT No.		Pos
WND/1	3 PIECE WAND SET. ELBOW + 2 EXTENSIONS	38
VLX15	CREVICE TOOL	41
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VTM502	HEPA ESSENTIAL FILTER	6
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INTRODUCTION

Thank you for purchasing this V-TUF product.

V-TUF is focused on research and development to make sure you are fully satisfied with our products. Please read this manual carefully and follow the instructions to ensure you get the best performance from this machine.

GENERAL INFORMATION

1. Before use operators must be provided with information, instruction and training for the use of the machine and the substances for which it is to be used, including the method of operation, cleaning and maintenance and disposal of the material being collected.
2. This manual has been included as an integral part of the appliance and should be carefully read through **BEFORE** using the machine.
3. 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.
4. Make sure that the electrical data of the appliance, shown on the label, corresponds to those of the mains supply. (For Battery powered products ensure that the charger is plugged into the correct mains supply).
5. The appliance must only be used with V-TUF accessories and spare parts.
6. 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.
7. The repair and/or replacement of the various component parts, especially electrical parts, must be done by competent, trained personnel authorised by V-TUF.

INSTALLATION

1. Check the full filtration system is in place correctly and the clips that fasten the head to the tank are in the clamped position and that the head is seated all-round the perimeter and secure.
2. Fit the hose to the vacuum connector; fit the required accessory to the end of the hose.
3. Connect the power cable of the appliance to the power socket with switches on "0" (OFF POSITION). (FOR Battery powered products, fit the battery with the switch off).

OPERATION INSTRUCTIONS

1. Ensure that there is sufficient ventilation for the machine and the operator
2. Always keep the machine upright.
3. Ensure that the vacuum cleaner is correctly fitted to the back of the operator and that all the straps are done up. 2 straps over the shoulder and connected with the horizontal strap. The waist belt done up comfortably.
4. The operator should not use the vacuum cleaner if they have a weak back or back pain.
5. Switch the machine on, use according to the guidelines and turn machine off, empty and clean after operation.

IMPORTANT

1. Never use this machine in wet conditions.

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. Ensure all maintenance is carried out in a suitable, controlled environment.
2. The filter elements can be cleaned by vacuuming them with a suitable unit that has the full filtration system in place.
3. Replace the vacuum filter if it is damaged in any way.
4. Damaged filters could allow the dust / materials to penetrate the filter area and become the cause of serious damage to the user and surrounding people, and the appliance.
5. Check and free the blocked parts (vacuum pipes, connector, brushes, etc.) from any deposited materials.
6. Items that cannot be cleaned satisfactorily need to be disposed of in an impervious plastic bag in accordance with current, local regulations. Replace the items with genuine parts.
7. If necessary, clean the tank. Never leave dust 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. Ensure that the machine has an up to date electrical and functional safety test and that nothing has been moved or replaced since the test was carried out.

Technical Information

Model	RUCKVAC-ION
Capacity	5 Litres
Working Voltage	25.9 Volts
Motor Power	500 Watts
Function	Dry Only Vacuuming
Air Velocity	26m/sec (Monitored at 20m/sec)
Width x Depth	320mm x 255mm
Height	580mm
Accessories	Ø32mm Accessories Kit






Safety Instructions

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

- This machine shall be used only by trained, competent and experienced operators. Operators should observe any safety regulations appropriate to the materials being handled.
- Do not use in the presence of flammable gasses.
- This machine should be kept out of the reach of children and pets at all times.
- Do not clean up any hot material, e.g. ash.
- Always turn off the machine, and then unplug it (for battery units, remove the battery) before you service the machine. Do NOT use this machine without the filters, as this is a health hazard and will damage and contaminate the internals of the vacuum cleaner.

- All repairs on V-TUF products should be done by an authorised service representative.
- If the machine shuts down, be sure to turn off the machine and unplug (for battery units, remove the battery) it before troubleshooting.
- For safety, the machine contains an electronic overload protection.
- Always turn off and unplug/remove battery when the machine when it is not in use.
- If any part of the appliance becomes damaged or fractured, it must be replaced with genuine V-TUF replacement parts only.

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 or battery is disconnected.  
3. When changing the essential filter, ensure that the surfaces are dust free to prevent dust being transferred to the downstream location of the essential filter.
4. Ensure that filters are correctly fitted with a 100% seal around the seat.
5. Only ever use the appliance for the purposes for which it has been designed and manufactured. ACCIDENT RISK. 
6. If vacuum exhaust starts emitting material, turn off immediately and ensure all correct filtration is present. If any substance has penetrated beyond the essential filter, ensure that the vacuum is decontaminated and has the correct filtration fitted prior to use.
7. Keep Filters Clean
8. Use genuine V-TUF Filter Bags
9. Keep the machine clean
10. Only use the accessories provided with the machine
11. Never reuse the dust bag.
12. Replace worn or damaged parts immediately.
13. Keep hoses and airways clear.
14. Inspect the power cable regularly. If damaged in any way, get a qualified person to replace it with a genuine part
15. Ensure that the machine has an up to date electrical and functional safety test and that nothing has been moved or replaced since the test was carried out.



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. Do not pull or lift the appliance using the power cable. SHORT-CIRCUIT RISK. 
7. Do not leave the device plugged into the mains power supply when not in use.
8. Do not suck up hot ashes or debris
9. Do not immerse in water or rinse off with hose. Do not expose to precipitation.
10. Do not add air fresheners or any foreign objects upstream/behind the filtration systems.
- 11.

VACUUM CLEANER – CLASS M



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 before operation.

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

Be sure to close all the dirt container's locking hooks before transport. Do not turn the device upside down. Ensure that the vacuum cleaner and accessories are transported in the appropriate manner relating to the type of material being handled.

Ensure that all hazardous dusts are contained and not transmitted to beyond the controlled area.

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. M CLASS

The collection of the following materials is forbidden:

- Incandescent materials.
- Hazardous 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 operator must be read and understood this operators manual 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

Care and attention must be exercised at all times during use. Routine and preventative maintenance is carried out periodically to ensure safe operation.

Failure to carry out maintenance as necessary, include the replacement of parts to the correct standard could render the equipment unsafe and the manufacturer can accept no responsibility in this respect.

Before performing any cleaning or maintenance operations on the device, make sure that it is disconnected from the mains power supply by removing the plug from the socket (For battery units, disconnect / remove the battery).

Treat the device in a responsible manner to avoid creating situations which could be dangerous to both yourself, as well as to others.

The user must wear any appropriate safety PPE during such operations, especially respiratory protection. The environment in which maintenance activities are to be performed must be controlled in order to prevent the dispersion of hazardous substances into the surroundings.

For user servicing, the machine must be dismantled, cleaned and serviced, as far as is reasonably practicable, without causing risk to the maintenance staff and others. Suitable precautions include decontamination before dismantling, provision for local filtered exhaust ventilation where the machine is dismantled, cleaning of the maintenance area and suitable personal protection.

The manufacturer, or an instructed person, shall perform a technical inspection at least annually, consisting of, for example, inspection of filters for damage, air tightness of the machine and proper function of the control mechanism. In addition, on class H machines, the machine filtration efficiency should be tested at least annually, or more frequently as may be specified by national requirements. The test method that can be used to verify the machine's filter efficiency is specified in 22.AA.201.2. If the test fails, it shall be repeated with a new essential filter.

When carrying out service or repair operations, all contaminated items which cannot be satisfactorily cleaned are to be disposed of; such items shall be disposed of in impervious bags in accordance with any current regulation for the disposal of such waste.

The method by which covers of non-dust proof compartments should be removed for cleaning.

TRANSPORT

Before transporting class H and class M machines, the outside of the machine should be decontaminated by vacuum cleaning methods and wiped clean or treated with sealant before being taken out of a hazardous area. All the machine parts shall be regarded as contaminated when removed from the hazardous area and appropriate action taken to prevent dust dispersal;

DESCRIPTIVE INFORMATION Detailed use of the machine

ATTENTION The vacuum cleaner is suitable for extracting dry non-flammable dusts,

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 to form an air-tight seal.

The relevant filters and bag have been installed. The bag is fitted 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 check that the full filtration system is in place and within the device and that they are positioned correctly.

Once the vacuum has been activated, block the filtration tube and check whether a visual indicator lights up. The visual air-flow indicator is activated before the speed of the air within the tube falls below 20m/sec. If the indicator is active without obstructing the extraction pipe, remove any blockages, change bag and clean or replace filters, before proceeding with work.

USE OF THE DEVICE

ATTENTION Never use on flammable or explosive dusts/substances.

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 fitted. Never reuse a filter bag.

FILTER BAG REFERENCE TABLE:

CODE	DESCRIPTION	VACUUM MODEL
VTM502	V-TUF Essential Filter	RUCKVAC
VTM501	Polyester Filter Bag	RUCKVAC
VTM503	Filter Basket	RUCKVAC



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.

END OF WORK ACTIVITIES

Must be carried out in a suitable, controlled area with the relevant PPE and methodology being used.

Disconnect the device's power supply by removing its electrical plug from the outlet. For battery powered units, remove the battery.

Replace the bag, empty and wipe the waste container and dispose of the material according to the relevant regulations appropriate to the materials being handled.

operators

Ensure the container is clean and fit a fresh dust collection bag.

The outside of the machine should be decontaminated by vacuum cleaning methods and wiped clean. All the machine parts shall be regarded as contaminated when removed from the controlled work zone and appropriate action taken to prevent dust dispersal.

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

Replacing the filter bag:

This dust bag holding the dust and debris must be removed, disposed of correctly and replaced by authorised persons that are wearing appropriate PPE and in a controlled work zone.

Never run the vacuum cleaner without the full filtration system, in place.

Never reuse the bags

Remove the head.

Gently unclip the bag retainer. Remove the filter bag, immediately close bag inlet tab. Dispose of in the correct manner according to the type of waste ensuring there is no potential leakage of the dust that would expose person to inhaling the material.

Ensure that the tank is empty and clean.

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 seal and basket filter are correctly in place. Make sure that the clips are completely closed and there full, airtight seal around the rim of the tank.

MAINTENANCE

All parts should be regarded as contaminated and kept or disposed of in the appropriate manner. Ensure that the machine is disconnected from the power supply. Maintenance must be carried out by a competent, trained, authorised personnel donning the appropriate PPE and within the appropriate zone.

Check the supply cables and seals for damage. If damaged, replace before further use.

Ensure that the machine is decontaminated in a specified environment prior to maintenance work being carried out. All contaminated items which cannot be satisfactorily cleaned are to be disposed of; such items shall be disposed of in impervious bags in accordance with any current regulation for the disposal of such waste. Be careful to not disturb dusts when performing cleaning operations, filter checks or filter replacements. Use the correct PPE and equipment.

Replacing the essential filter element

Gently remove the head of the vacuum cleaner. Remove the basket filter.

Ensure that the container is dust free. This is important to ensure that no dust transferred to the downstream position of the essential filter.

Unclip the essential filter and replace with a genuine V-TUF spare part. Make sure that the filter is fitted correctly ensuring a full seal around the seat.

Dispose of in compliance with current local laws.



Never use the vacuum cleaner without the full filtration system in place.

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	PROBABLE SOLUTION
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The machine does not start	No current.	Charge / Replace battery and check that it is fitted correctly.
The machine suddenly stops	Overheating or no current.	Allow the machine to cool down, try and operate again.
Reduced suction power.	Filter, nozzle, hose or tube clogged, bag full.	Check, unblock, Clean and replace as required.
Suction power suddenly drops	Tank full.	Stop the machine and empty the tank.
Air flow monitor Activated	Blocked hose, Blocked poles, Blocked floor tool. Full Bag, Blocked filter. Power tool has poor airflow allowance.	Remove the items causing the blockage. Change bag. Clean filter.

General Safety Guidelines to be followed the operation Lithium Battery Powered Products

Lithium batteries are used for their high energy density and efficiency, but they also require careful handling to ensure safety. Here are some essential safety instructions for charging and using lithium batteries:

Use Genuine Equipment:

Always use the charger that came with the battery or one specifically recommended by the battery manufacturer. Incompatible chargers can overcharge or damage the battery. Ensure your charger is designed for lithium batteries.

Inspect Before Use:

Check the battery for any signs of physical damage (swelling, cracks, or leaks). Do not use if damaged. Inspect the terminals for corrosion or dirt. Clean gently if needed.

Avoid Extreme Temperatures:

Charge and use the battery within the recommended temperature range, typically between 0°C to 30°C for charging and -5°C to 45°C for discharging. Avoid storing or using the battery in very hot or cold environments, as this can degrade the battery's performance and safety.

Charging Safety Instructions

Monitor Charging:

Charge batteries in a well-ventilated area away from flammable materials. Never leave lithium batteries charging unattended.

Charging Area:

Charge on a non-flammable, heat-resistant surface. Keep the battery away from direct sunlight and other heat sources while charging.

Avoid Overcharging:

Disconnect the battery from the charger once it's fully charged. Overcharging can lead to overheating and potentially cause a fire. If the charger or battery becomes excessively hot, disconnect immediately.

Using the Battery

Proper Handling:

Avoid dropping or puncturing the battery, as physical damage can lead to internal short circuits. Do not expose the battery to water or excessive moisture.

Discharge Guidelines:

Avoid fully discharging the battery regularly; partial discharges are better for battery longevity. Do not use a battery that is below its recommended voltage cut-off.

Transportation:

When transporting lithium batteries, ensure they are securely packed to prevent short circuits or physical damage. Follow all regulations and guidelines for transporting lithium batteries, especially by air.

Storage

Optimal Storage Conditions:

Store the battery in a cool, dry place away from direct sunlight.

For long-term storage, charge the battery to about 50-70% of its capacity.

Regular Checks:

Periodically check stored batteries for signs of swelling or leakage.

Recharge stored batteries every few months to maintain their health.

Emergency Procedures

Handling Overheating:

If the battery becomes excessively hot, smoking, or emitting a burning smell, immediately disconnect and remove it from any flammable area.

If safe to do so, place the battery in a fireproof container or sand until it cools down.

Fire Response:

In the event of a battery fire, use a Class D fire extinguisher (designed for metal fires) or sand to extinguish it. Do not use water.

Following these guidelines can significantly reduce the risks associated with lithium battery usage and ensure their safe operation.

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