

V-TUF[®]



MIDIHSV110, 240 INDUSTRIAL VACUUM CLEANER OPERATOR MANUAL

Version 080724 - This superseded and should be used instead of all previous versions.



Please read this manual before using the MIDIHSV110, 240

MIDIHSV



Parts No		Pos
VTVS7023	HOSE - 5M 32mm Yellow Vacuum Hose With End To Fit WND/1 - for NEW MIGHTY, NEW MIDI	1
BIO324WD	FLOOR HEAD - 420MM WIDE FLOOR HEAD WITH WHEELS 32 MM	2
WND/1	V-TUF PROFESSIONAL TUBE SET - 32MM STAINLESS STEEL 3 PIECE WAND SET	3
VLX13	UPHOLSTERY TOOL WITH BRUSH - 32 MM for V-TUF VACUUM CLEANER	4
VLX15	CREVICE TOOL - 200MM LONG V-TUF 32MM	5
VTM103	V-TUF Universal Power tool Adaptor For MINI, MIDI, MIDI SYNCRO	6
VLX10	ROUND BRUSH - WITH HORSE HAIR 32 MM for V-TUF VACUUM CLEANER	7
VTVS7021U	V-TUF ULPA15 Cartridge Essential Filter - For MIDIHSV, MAXI50	8
VTVS7007	DUST BAGS - for M & H CLASS (Pack of 10) - FSC Certified	9
VTVS7008	CONED FILTER BASKET - FOR MIDI, MIDIS, MIDIHSV	10

MIDIHSV

Follow these steps BEFORE USE

**ENSURE FULL FILTRATION IS IN PLACE.
NEVER OPERATE WITHOUT FULL FILTRATION**



Un-clip head



Basket Filter



Essential Filter



Fully sealed with no gaps



Waste bag fitted correctly

MIDIHSV



Place basket filter in tank. No gaps.



Fit head ensuring that it is sealed

ADD HOSE AND ACCESSORIES AS REQUIRED



Remove tank bung and fit hose



Ensure hose locked in place



Fit wand elbow



Push fit extensions

MIDIHSV



Floor head



Crevice tool onto elbow



Crevice tool onto elbow



Upholstery tool onto elbow

CONNECT TO POWER SOURCE AND TURN ON



Air Flow indicator

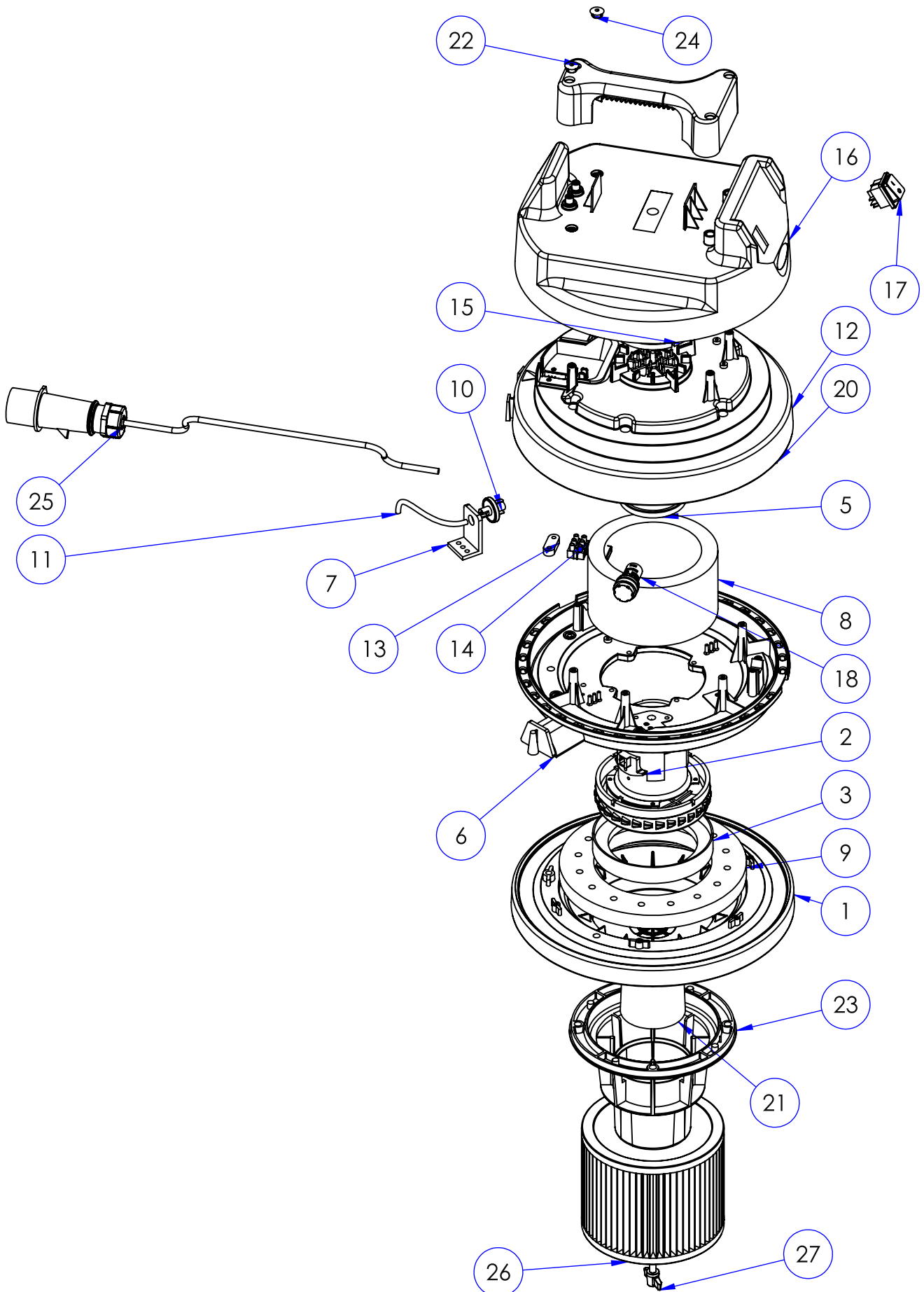
MIDIHSV

WASTE DISPOSAL

For best practice follow BS8520-1:2009 Operation, cleaning and maintenance of class H vacuum cleaners. - Code of practice.



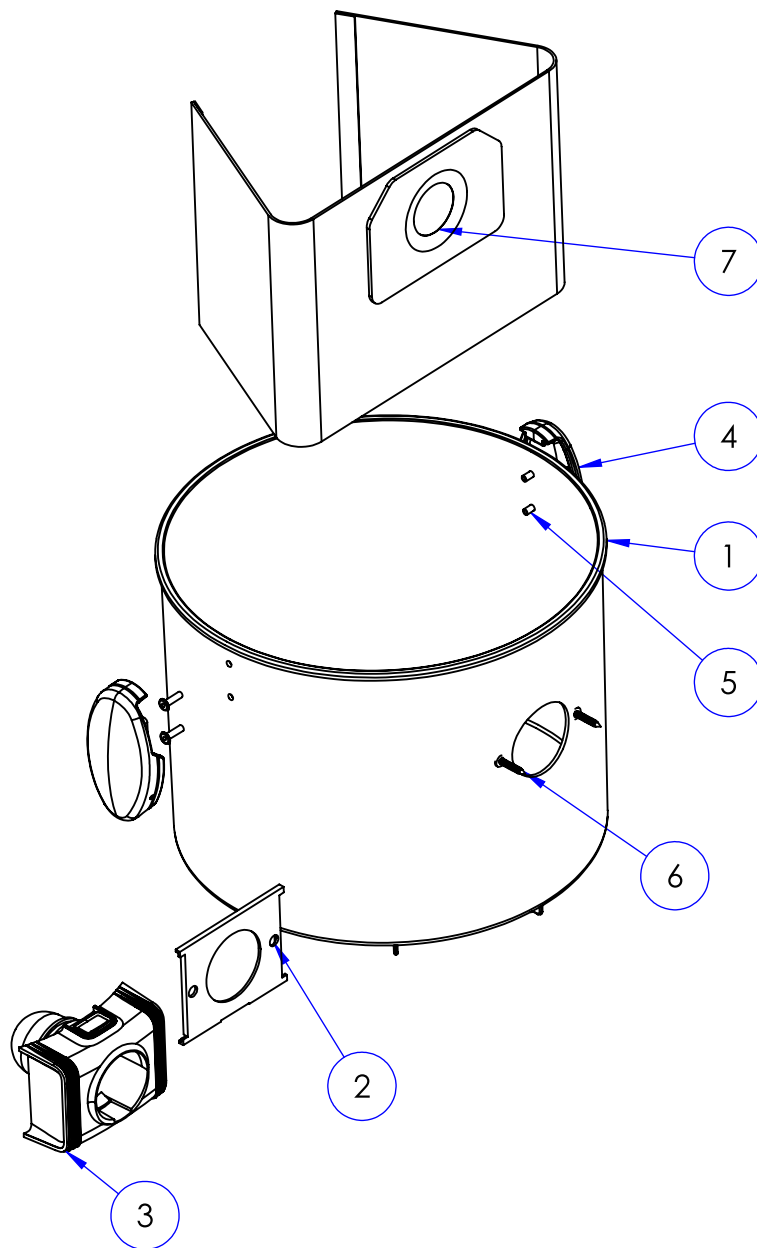
MIDIHSV



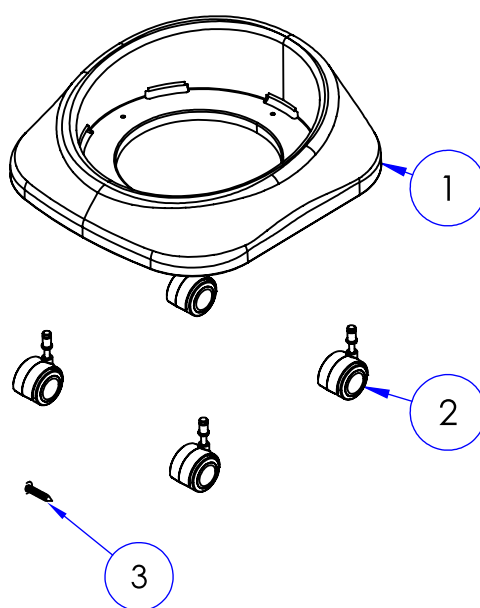
MIDIHSV

Pos.	Cod.	Q.ty	Description
1	VTVS7471	1	Black Single stage base motor
2	a. VTVS7615 - 240v motor b. VTVS7616 - 110v motor	1	Motor Mono By-Pass PC25 Slim
3	VTVS7452	1	"L" Gasket h=10 mm
5	VTVS7482	1	Motor Plastic Spacer H=27
6	VTVS7486	1	Black Motor Holder
7	VTVS7432	1	Pump Bracket
8	VTVS7445	1	Filter MTP30 D160x120x88
9	VTVS7449	1	Filter MTP30 D230x145x20+16F
10	VTVS7431	1	Pressure switch
11	VTVS7504	1	Crystal Hose
12	VTVS7484	1	Black Motor Cover
13	VTVS7483	1	Cable jaw
14	VTVS7421	1	electrical terminal
15	VTVS7163	1	Gasket MTP 30/AU waved 10+10
16	VTVS7478	1	E.2 Black Cover Ø40
17	VTVS7422Y	1	SWITCH - VRS SEALED & YELLOW V-TUF 'VRS' TYPE 10AMP - fits RAPIDS, MIDI, Mighty, MAXI, VACW&D, RAPID - VTVS7422Y
18	VTVS7437	1	LIGHT BUZZER FOR DUSTEX, MIDI, MIDI SYNCRO, MAXi 50
20	VTVS7490	1	Plastic Grid
21	VTVS7494F	1	Float
22	VTVS7492	1	Handle E.2
23	VTVS7494	1	Float Support
24	VTVS7515	2	CAP 14,0X18.0X7.0
25	a. I10.1505C = 110v Cable b. I10.1605C = 240v Cable	1	Electric Plug
26	VTVS7021U	1	V-TUF ULPA15 Cartridge Essential Filter - For MIDIHSV, MAXI50
27	VTVS7506	1	Filter Wing Nut

MIDIHSV



Pos.	Cod.	Q.ty	Description
1	VTVS7473	1	Black Plastic Barrel H=250
2	VTVS7164	1	Gasket Inlet Ø48
3	VTVS7165M	1	Inlet Ø48
4	VTVS7491	2	Barrel Hook
5	VTVS7514	4	Blind Rivet 4,8x17
6	VTVS7512	2	Self tapping screw 5x25 ZN
7	VTVS7007	1	Polyester Bag 21 l (Pack of 10)

MIDIHSV

Pos.	Cod.	Q.ty	Description
1	VTVS7497	1	black trolley 400x420
2	VTVS7496	1	Pivot wheel Ø50
3	VTVS7511	4	Self Tipping Screw 5x16 ZN

INTRODUCTION

Thank you for purchasing 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.

Congratulations on your choice.

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.
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.

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).
4. The noise level is below 72 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, 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.
3. For best practice follow BS8520-3:2009 Operation, cleaning and maintenance of class H vacuum cleaners. - Code of practice.

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 satisfactory need to be disposed of in an impervious plastic bag in accordance with current 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	MIDIHSV
Capacity	21 Litres
Working Voltage	110 & 240 Volts
Motor Power	1150 Watts
Function	Dry Only Vacuuming
Air Velocity	40m/sec (Monitored at 20m/sec)
Tank Diameter	320mm
Height	250mm
Accessories	Ø32mm Accessories Kit
Power Cable	5m

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 run over the cable.
- Do not use in the presence of flammable gasses.
- Do not use with a damaged cable.
- 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, 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 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 with genuine V-TUF replacement parts only

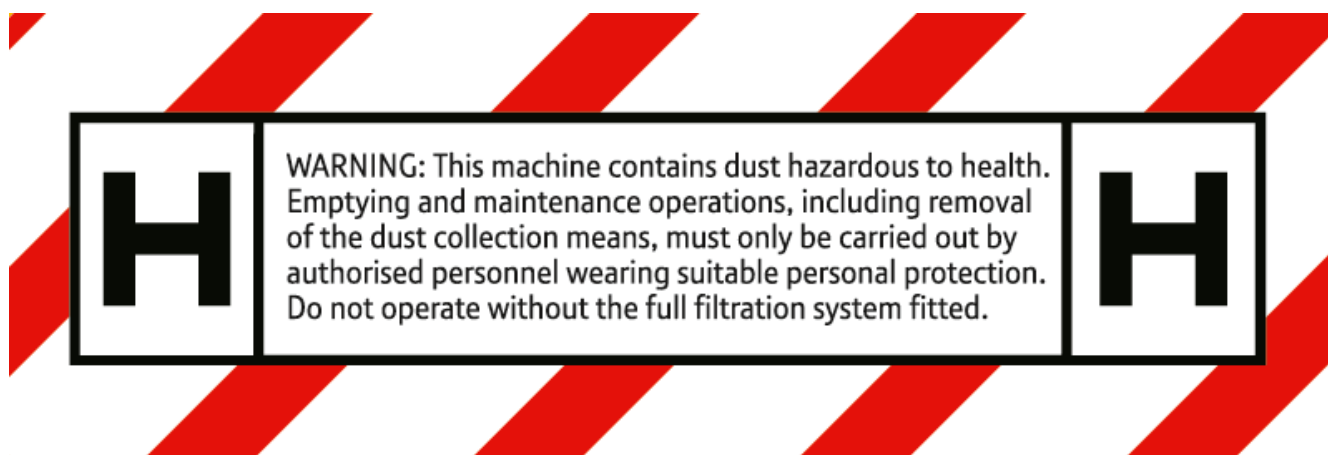
Caution: what to do

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.  
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 dust, 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.
6. Keep Filters Clean
7. Use genuine V-TUF Filter Bags
8. Keep the machine clean
9. Only use the accessories provided with the machine
10. Never reuse the dust bag.
11. Replace worn or damaged parts immediately.
12. Keep hoses and airways clear.
13. Inspect the power cable regularly. If damaged in any way, get a qualified person to replace it with a genuine part.
14. 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.

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 H 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. For best practice follow BS8520-3:2009 Operation, Cleaning and Maintenance of class H vacuum cleaners. – Code of practice

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. H 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 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

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.

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 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.

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 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,

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 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 an acoustic signal sounds. The acoustic signal is activated before 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.

USE OF THE DEVICE

ATTENTION 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
VTVS7021U	V-TUF UULPA15 Essential Filter	MIDIHSV
VTVS7007	Polyester Filter Bag	MIDIHSV
VTVS7008	Coned Filter Basket	MIDIHSV



ATTENTION

The dust collection bag must not be filled past 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.

Empty the waste container and dispose of the material according to the relevant regulations appropriate to the materials being handled.

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 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.

Store the vacuum in a safe place where it cannot be accessed by 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 specified de-contamination only.

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

Never reuse the bags

Remove the hose. Ensure that the rubber bung is firmly in place providing an airtight seal.

Remove head and place in a level location

Remove basket filter

Remove the filter bag, close bag inlet tab. Place inside an impervious plastic bag ensuring it has an airtight seal. Dispose of in the correct manner according to the type of waste. 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 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 specified 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, equipment and procedures according to BS8520-3:2009

Replacing the Essential Filter element

Open the closure hooks, lift the vacuum's cover from the container and set it down in a way that you can unscrew the essential filter retainer screw.

Unscrew the essential filter retainer screw, slowly remove the filter, place it in an impervious bag with airtight seal. Dispose of in compliance with current local laws.

Ensure that you have the correct replacement filter.

Check that all seals are in place and that there is no objects or dust that are in the seal areas.

Place the filter in the correct position and tighten the essential filter retainer screw.

Ensure there is a full seal and that there are no gaps.



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

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	PROBABLE SOLUTION
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.	Remove the items causing the blockage, change the bag, clean the filter.

NOTES

A series of horizontal dotted lines for taking notes.

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