KERSTAR

Part of Absolent Air Care Group

Category 2 (Dust Zone 21 / Gas Zone 1)

II 2 D Ex h IIIC T50°C Db
II 2 G Ex h IIC T6 Gb

KAV 15/18/20/30/45 Type H Dry Pickup Compressed Air Powered Vacuum Cleaner

Original Instructions

KAV 15/18/20/30/45 Type H | Version 1.0 | Last Updated December 20, 2024

Abstract

Front cover image (left - right): KAV 20H, KAV 30H and KAV 45H products.

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Table of Contents

1. **Introduction** 4
    1.1. **ATEX/UKEX Risk Assessment** 4
    1.2. **Type H Risk Assessment** 4
2. **Installation, Commissioning and Handling** 5
    2.1. **Specific Conditions of Use** 5
    2.2. **Unpacking** 5
    2.3. **Electrical Information** 6
    2.4. **Commissioning** 6
    2.5. **Carrying and Storage** 7
3. **Operation** 8
    3.1. **Compressed Air Requirements** 8
    3.2. **Filtration System** 8
4. **Maintenance** 10
    4.1. **Decontamination** 10
    4.2. **Dust/Debris Disposal** 10
5. **Loss of Suction and Thermal Switch** 12
    5.1. **Disposable Bags** 12
    5.2. **Antistatic Cloth Filter Assembly** 12
    5.3. **HEPA Cartridge Filter** 12
6. **Guarantee and Servicing** 13
    6.1. **Guarantee** 13
    6.2. **Servicing** 13
7. **Rating Plate** 14
8. **Spare Parts** 15
9. **EU Declaration of Conformity (Machinery)** 20
10. **EU Declaration of Conformity (ATEX)** 21
11. **EU Declaration of Conformity (NON-ATEX)** 22

1. Introduction

Welcome to the user manual for your new Kerstar® KAV Type H product! This manual refers to the KAV 15H, KAV 18H, KAV 20H, KAV 30H and KAV 45H products.

This manual should be retained with the product for future reference. Should the product be sold or transferred to another user, always ensure that it is supplied alongside it in order that the new user can be properly acquainted with the functioning of the product, as well as any safety warnings. It is dangerous to alter the specification or modify the product in any way.

Kerstar® products are manufactured by Filtermist International Limited. If you have any enquiries, please do not hesitate to contact our team on (0) 1952 290500 or sales@filtermist.com. Further product information can be found on www.kerstar.com.

Your product is designed to pick up: non-explosive dust and debris in an unzoned atmosphere; non-explosive dust and debris in a Gas Zone 1 atmosphere (a Gas Zone 1 atmosphere is where flammable gases, vapours and mists are likely to occur; dust and debris that may explode if ignited (Dust Zone 21) in an area where no flammable gases, vapours or mists are present; dust and debris that may explode if ignited (Dust Zone 21) in a Gas Zone 1 atmosphere; dust and debris that is hazardous to health where a Gas Zone 1 and/or Dust Zone 21 atmosphere may or may not be present.

1.1. ATEX/UKEX Risk Assessment

If this product is used for collecting flammable/explosive materials or within a zoned area classified under the ATEX/UKEX Directive **2014/34/EU** or **Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016: Great Britain**, then a risk assessment must be carried out by a competent person to verify the suitability of the application. This assessment will be the responsibility of the customer/end user. It should take into account, but not be limited to, the characteristics of the material being collected, such as:

- Spark ignition sensitivity (e.g., measured by minimum ignition energy (MIE)).
- Hot surface ignition sensitivity (cloud and layer) (e.g., as a function of fuel–air equivalence ratio (ϕ) and chamber pressure).
- Explosion severity (e.g., with maximum pressure (Pmax) and/or the dust constant (Kst)).
- Burning behaviour (e.g., with a Combustibility Class measurement).
- Thermal and chemical instability (e.g., thermal stability with a thermogravimetric analyzer (TGA), chemical stability using liquid or gas chromatography (HPLC – GC), mass spectrometry (MS), and infrared spectroscopy (FTIR)).
- Static electricity generation (e.g., using an electrostatic sensor).
- The ATEX/UKEX certification code for the appliance being assessed (see Rating Plate).

1.2. Type H Risk Assessment

If this product is used for collecting dust and/or debris which may be hazardous to health if inhaled, ingested or in contact with the skin, then a risk assessment must be carried out by a competent person to verify the suitability of the application. The risk assessment is the responsibility of the customer/end user and should take into account - but not be limited to - the characteristics of the material being collected, such as:

- The occupational exposure limit of the dust and debris being collected (e.g., using the COSHH standard Workplace Exposure Limits (WELs)).
- The particle size of the dust and debris being collected (e.g., using optical and condensation particle counters, and/or photometers / nephelometers).
- The method of disposal.

2. Installation, Commissioning and Handling

2.1. Specific Conditions of Use

- Outdoor use should be avoided. Take care if you use your product outdoors - and it should never be stored outdoors.
- Air compressors used to supply your product must incorporate a filter on the intake system to avoid ingress of dust or foreign material into the parts where compression takes place. They must employ only lubricants which are resistant to ignition or carbonisation within the equipment's operating temperature range.
- During use, the air supply hose should be kept away from heat, oil, sharp edges and rough surfaces. If there is a risk of the air supply hose being severed, an air fuse should be fitted - this fuse can be purchased from Kerstar® if one is required. If your air supply hose is damaged and needs replacing, it must be replaced by a conductive supply hose available from Kerstar® - do not use any other air supply hose. Doing so may invalidate your warranty.
- When collecting dust or debris that may ignite or explode, empty the cleaner after every use.
- Only Type H models are suitable for picking up hazardous dusts[1] that may endanger health.
- W/D models are not suitable for picking up flammable or corrosive liquids; always remove liquids from the container after use. For W/D models, the magnitude of vibration emissions for the machine at the hose end is below 2.5m/s².
- Dry and Type H models are designed for dry use only. If wet use if required, ensure that you have an appropriate W/D model that it is set appropriatley for wet pickup.

DANGER! This product is not suitable for collecting radioactive dust, dust with an ignition energy of less than 1mJ[2], or pyrophoric[3] or self-reactive dusts.

DANGER! Do not pick up glowing dust or other ignition hazards. When picking up swarf and similar metallic parts, the product must not be used to pick up potentially explosive dusts or be used in potentially explosive atmospheres.

DANGER! Never remove a Type H vacuum cleaner from a contaminated area unless it has been decontaminated in accordance with the "Decontamination" section in this manual.

IMPORTANT! Never use this product without the full filtration system fitted.

IMPORTANT! Do not use the product for dry vacuuming with the filters and/or microfibre bag removed.

2.2. Unpacking

Unpack the carton and ensure that you have a complete set of accessories as listed in the table below, alongside your vacuum cleaner. A/S = Antistatic/Conductive.

[1]Such dusts are defined as non-radioactive, non-explosive dusts that are hazardous to health if inhaled, ingested or if in contact with the skin. A hazardous dust can be defined as very toxic, harmful, corrosive or irritant; microorganisms may be considered as dusts creating a hazard to the health of a person.

[2]Millijoule, equivalent to one thousandth (10^{-3}) of a joule.

[3]Liable to ignite spontaneously on exposure to air.

Table 1. Components for KAV Dry, Wet/Dry and Type H Series Products

Component Description	Quantity
Yellow A/S Air Supply Hose	1
38mm x 3m A/S Hose Assembly	1
38mm Stainless Steel Bent Hose End	1
38mm Stainless Steel Wands	2
38 x 375mm A/S Heavy Duty Floor Tool with Brushes	1
38mm Crevice Tool A/S Plastic	1
38 x 70mm A/S Dusting Brush	1
38 x 100mm A/S Dusting Brush	1
Microfibre Bags to suit your model	5
Yellow Earth Path Continuity Certificate	1

Optional extras are available. These include:

- **Hose and Accessory Basket**. This is a zinc plated tool basket to prevent a build up of static - it can be fitted by hanging from the two horizontal crossbars on the rear of the caddy.
- **KAVIT Interceptor Tank**.

Wet/Dry pickup models can also be supplied with a Dump Valve and a 32 x 800mm Drain Hose and Stopper. These allow the emptying of liquid from the canister without removing the air motor head and float assembly.

WARNING! The dump valve or drain hose and stopper is only suitable for emptying liquids from the canister. If the dump valve or drain hose requires cleaning, a damp or wet cloth should be used - **DO NOT** use a dry cloth.

Models on a caddy (KAV 18/30/45 Dry Pickup, 18/30/45 W/D Pickup, 18/30/45 Type H Dry Pickup) are packed with the caddy handle removed for transport/packing purposes. Refit handle before use.

2.3. Electrical Information

In most KAV products, the air supply hose has a special conductive lining to dissipate any static build up down to earth. The end piece you fit must be metal and your air supply pipe system / compressed air connection point must be earthed.

It is strongly advised that the earth path continuity between the pick-up tool and the earthed air supply system be checked by a competent person at regular intervals and documentary records be kept of these checks.

2.4. Commissioning

Follow this procedure to commission your KAV Series product. Ensure that you are in possession of a 500-volt megohmmeter[4] prior to commencing.

1. Attach the antistatic air supply hose to the air inlet port on the KAV. Do not over-tighten the connection and do not use any form of liquid thread locker or PTFE[5] tape to seal the thread. The threaded end fitting has its own integral O ring seal. Please note, if you use liquid thread sealer or PTFE tape you may create an insulated barrier so that any static build up cannot dissipate to earth down the air supply hose.
2. To the other end of the air supply hose fit a metal (conductive) fitting to suit your air outlet sockets. Make sure the pipework and outlet fittings of your air supply system are constructed entirely of metal pipes and fittings and is earthed to your compressor.

[4]An electrical instrument used to measure the electrical resistance of insulators.

[5]Polytetrafluoroethylene, a fluoropolymer.

3. Finally, using a 500-volt megohmmeter, measure the resistance between the body of the KAV and the metal air supply pipe. The reading should be no more than 50 Megohm (MΩ) (5 x 107 Ohm).

IMPORTANT! Appropriate Personal Protective Equipment (PPE) in the form of ear defenders should be worn while using this product.

This product is not intended for use by children. Where children are present, they must be supervised at all times to prevent them from playing with or using the machine in any way. Additionally, this appliance is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

2.5. Carrying and Storage

The assembled vacuum cleaner can be moved around either by pulling the hose, using the flip/flop handle on the motor head or by means of the tubular handle (models on caddy only). It must **NOT** be dragged around by means of the power supply cable. Do not tug at the mains supply cable to remove the plug from the wall socket. When not in use, your vacuum should be disconnected from the power supply and stored indoors in a dry environment.

3. Operation

To operate your KAV, follow this procedure:

1. Connect the KAV to a suitable compressed air supply.
2. Attach the antistatic hose assembly to the canister and connect the stainless steel bent hose end and wands.
3. Choose and attach one of the antistatic tools supplied.
4. To activate your KAV, turn the lever on the control valve through **90°**. The performance of the vacuum cleaner can be controlled with the control valve, but it is advisable to fit a regulator and pressure gauge at the air outlet point of your compressed air supply.

DANGER! The maximum pressure must be no more than 120 psi[6] (8.3 bar).

3.1. Compressed Air Requirements

The KAV range does not require the air supply to be dried or filtered. However, it is advisable to use an air supply that can be regulated so that the performance of the unit can be adjusted to suit the operator. The performance of the unit is related to the air input - the more pressure and/or volume of air input the more suction and/or induced airflow is generated.

CAUTION! Using excessive air input wastes compressed air, generates unnecessary noise and may cause implosion of the canister and/or bursting of the microfibre bags/filters (where fitted).

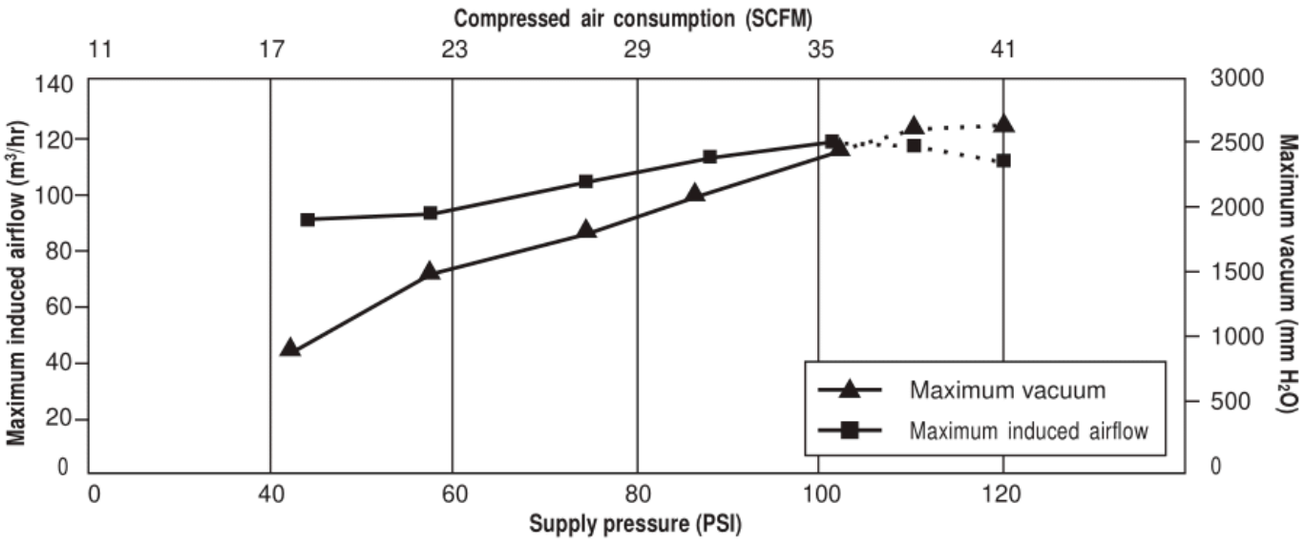

Figure 1. Compressed air requirements for KAV series models. Optimum performance is achieved at an air input pressure of 90-120psi (6.2-8.3 Bar).

3.2. Filtration System

Your vacuum cleaner is fitted with three stages of filtration on the negative pressure side of the air motor (i.e., before the air motor, so that the air motor always receives clean filtered air). These stages are as follows:

[6]pound per square inch. 1 psi = 0.069 bar.

- **First Stage:** K1 or K4 disposable microfibre bag. K1 and K4 disposable bags are made from microfibre material. Microfibre bags offer better filtration efficiency, greater tear resistance from sharp debris than paper bags and are less likely to burst when full of heavy dust/debris. They are fitted over the inlet inside the canister and the dust/debris is collected inside the bag. They are fitted with a moulded plastic flange and sealing cap - the cap is designed to prevent the escape of dust from the bag during the bag change and disposal process. When the bag is full or suction efficiency is impaired it should be replaced - please note that microfibre bags are not designed to be emptied and should not be reused.
- **Second Stage:** Antistatic cloth filter assembly. A conductive needlefelt cloth filtration media attached to a conductive rubber sealing ring and supported by a conductive plastic rigid filter frame.
- **Third Stage:** HEPA (High Efficiency Particulate Arrestor) cartridge filter; often referred to as the essential or absolute filter. It is designed to filter to a very fine particle size (0.3 - 0.6 microns at an efficiency >99.995%) yet have a large enough surface area to give maximum vacuum performance.

NOTE!The casing of the HEPA filter housing is made of metal. It is earth bonded to the body of the vacuum cleaner in order to dissipate any static built up in the HEPA filter.

DANGER! Do not use the appliance unless the full filtration system is fitted. In Type H models a full filtration system may comprise the Type H HEPA cartridge, antistatic high efficiency cloth filter and microfibre bag. Failure to fit the complete system may cause premature clogging of the Type H cartridge and may also endanger health.

4. Maintenance

Inspection must be carried out at least annually. Maintenance and cleaning procedures must only be carried out by competent, authorized and instructed personnel equipped with suitable personal protective equipment (PPE). They must be carried out in a suitable controlled area with local filtered exhaust ventilation and facilities for cleaning the area after servicing.

Prior to performing maintenance, always turn the power off and disconnect your machine from the air and/or electrical supply.

All parts must be regarded as contaminated and treated as such - another Type H vacuum cleaner should be used and each component to be removed and cleaned prior to removal.

Items that cannot be satisfactorily cleaned must be disposed of in impervious plastic bags in accordance with current regulations. All surfaces should be cleaned as they become exposed. Do not operate your unit without the full filtration system fitted.

4.1. Decontamination

Before removing the vacuum cleaner and accessories from the contaminated area, the following decontamination procedures should be followed.

To decontaminate an accessory:

1. Clean your accessory externally with a Type H vacuum cleaner.
2. Then, clean it with an adhesive wipe.
3. Seal the accessory at each end.
4. Seal it again within a clear, impervious plastic bag. Ensure that an appropriate warning label is attached to the exterior of this bag.
5. Clean the external surfaces of the bag with an adhesive wipe.

To decontaminate a vacuum cleaner:

1. Clean the vacuum cleaner externally with itself.
2. Remove and dispose of the disposable bag and its contents, in accordance with the aforementioned method (see **Dust/Debris Disposal**).
3. Clean the vacuum cleaner externally with an adhesive wipe.
4. Seal the vacuum cleaner inside a clear, impervious plastic bag. Ensure that an appropriate warning label is attached to the exterior of this bag.
5. Clean the external surfaces of the bag with an adhesive wipe.

4.2. Dust/Debris Disposal

The disposal of dust and/or debris should always be carried out within the contaminated area.

The following procedure should be used to dispose of dust/debris:

1. Disconnect the hose from the vacuum cleaner and fit the blanking cap on to the hose entry.
2. Unlatch the toggle clips and remove the motor head/HEPA unit - take care not to drop the motor head/HEPA unit.
3. Remove the antistatic filter assembly and carefully release the disposable bag from the bag tube and lift out of the canister.

4. Seal the disposable bag inlet using the integral cap on the bag collar.

IMPORTANT! The disposable bag should be immediately placed in a suitably labelled impervious plastic bag and this bag sealed and disposed of in accordance with the current regulations.

5. Fit a new disposable bag over the bag tube inside the canister.

This vacuum cleaner is supplied with a spare antistatic filter assembly - this (clean) spare filter should be used and the motor head/HEPA unit refitted. Type H models are supplied with five spare microfibre bags.

The contaminated antistatic filter should now be cleaned by vacuuming and stored in a labelled plastic bag ready for future use.

5. Loss of Suction and Thermal Switch

If your vacuum cleaner loses suction power, first check that the hose and other accessories in use are not blocked. To clear a blockage, insert a long object into the nozzle connector to clear the airway.

If the hose or accessories are not blocked, check that the filtration system itself is not blocked. The different aspects of the system can be serviced as follows.

5.1. Disposable Bags

If the bag is full, replace. If it is burst, clean out the canister by vacuuming it with another vacuum cleaner (ensure that this is rated **ATEX/UKEX Category 3/Dust Zone 22**) and replace the bag. Suction should now be restored if a full or burst bag was the cause of the loss of suction.

5.2. Antistatic Cloth Filter Assembly

The filter assembly will become contaminated with dust during normal use and/or if the disposable bag is holed or burst. The dust must be removed, either by brushing off, or preferably by vacuuming with another vacuum (ensure that this is rated **ATEX category 3/Dust Zone 22**).

It is advisable to have a spare filter - this can be placed in the machine which can then be used to vacuum the dust off the contaminated filter, after which it becomes the spare. If any of the filters or microfibre bags are damaged or holed they must be replaced with new items.

5.3. HEPA Cartridge Filter

The HEPA cartridge is only found in certain product lines.

The HEPA cartridge is neither reusable nor cleanable and it should be disposed of safely. When it becomes excessively clogged and the vacuum performance of the appliance suffers or is no longer acceptable, fit a new cartridge.

Be careful when handling and fitting HEPA cartridges; damage to the pleated element and/or seals will affect the performance and may cause a leakage through the filter of unfiltered air. If the **thermal switch** activates to protect the motor first check the hose, tools and filtration system as described above. If these are clear and not blocked, the inlet cooling air HEPA filter may be clogged; this can be replaced by removing the cover for the inlet cooling air HEPA filter.

6. Guarantee and Servicing

6.1. Guarantee

All Kerstar® products are guaranteed for 12 months against defective parts and workmanship, excluding parts subject to normal wear and tear. Please note that there are certain conditions that may invalidate this guarantee:

- Not adhering to the instructions provided in this manual. This appliance must be correctly installed and used in accordance with these instructions.
- The use of unauthorised personnel for servicing, repair or modification of the appliance.

WARNING! Under no circumstances should you attempt to repair this appliance yourself. **Repairs undertaken by unauthorised or inexperienced persons may cause injury and/or serious malfunctioning**. This appliance must only be serviced by authorised Kerstar® personnel or distributors. Only genuine Kerstar® spare parts should be used.

We may introduce modifications to our products from time to time and consequently the details given in this user manual are subject to alteration without notice.

6.2. Servicing

Should your Kerstar® product require servicing, spares or repairs, please contact us on (+44) 1952 290500. Please make a note of the model and serial number before contacting us.

Before attempting any servicing of Type H appliances, decontaminate as described in this user manual and make sure you are protected from any dust which may still be present on or around the machine or any dust which may have collected on internal components.

Ensure that only the hose and accessories provided with the product are used. For ATEX rated products these have been ATEX/UKEX tested and assessed as suitable for use with the product. A wider range of ATEX/UKEX approved nozzles is available from Kerstar®. Disconnect all models from the electrical supply before carrying out maintenance.

OUR
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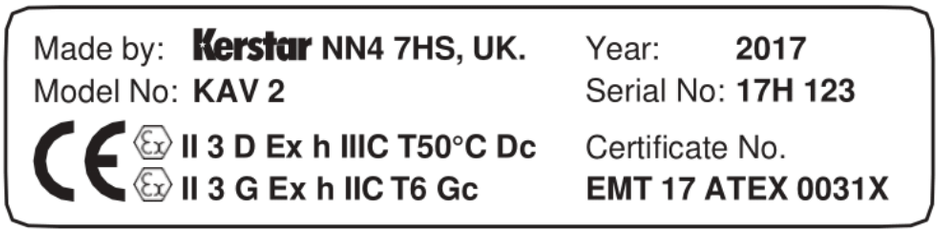
7. Rating Plate

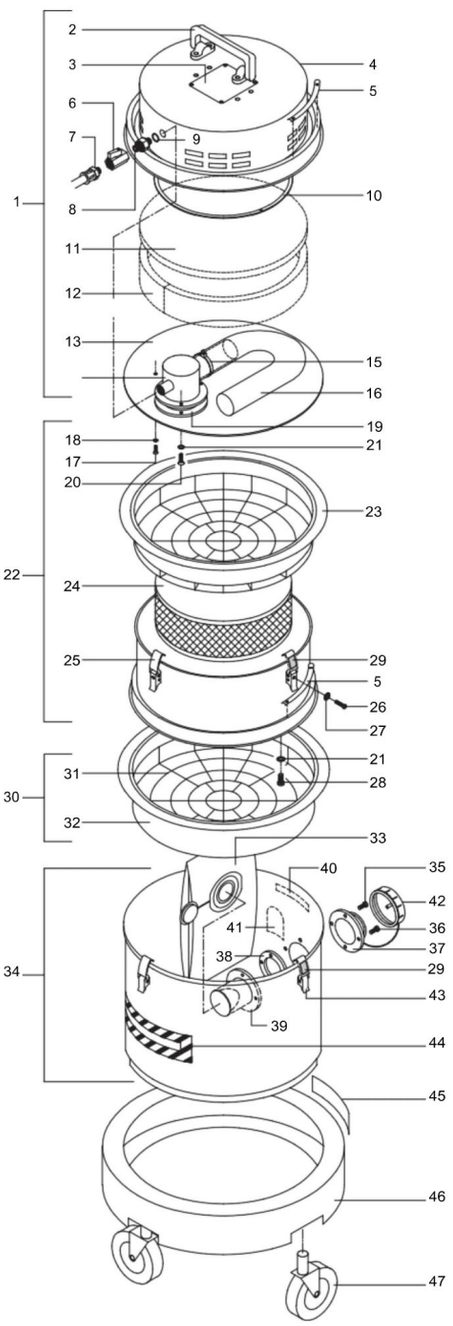
Every Kerstar® product is fitted with a Rating Plate that contains important information pertaining to your product. The rating plate may contain the following information:

Information	Meaning
Manufacturer Name and Address	The details of the manufacturer of the product.
Model or Type Number	The specific model of your product (e.g., KAV 20H).
Year of Manufacture, Assembly or Construction	The year that your product was manufactured.
CE	A mark certifying compliance with European Union regulations, standing for "Conformité Européenne".
UK CA	A mark certifying compliance with United Kingdom regulations, standing for "United Kingdom Conformity Assessed".
Ex	The distinctive community mark showing a product is suitable for use in an explosive dust and/or gas atmosphere.
II	Equipment Group II (Surface Industries)
3	Category 3 product
2	Category 2 product
G	Explosive gas, vapour or mist atmosphere
h	Mechanical equipment according to EN 80079-36
Tc	Level of protection for electrical equipment (for EPL Dc)
IIIC	Conductive dusts
T100°C	Surface temperature less than 100°C for dust evaluation
D	Explosive dust atmosphere
Dc	IECEx Equipment Protection Level
Ta = 0ºC to +30ºC	Suitable for use in an ambient temperature range of 0ºC to +30ºC
IP6X Dust tight (electrical compartment)	No ingress of dust
Weight	Weight of the unit
KEVA	Acronym for "Kerstar Electric Vac Atex"
Ex h	Protection concept – constructional safety (applies to the mechanical parts of the vacuum cleaner)
IIIC T50°C Dc	IIIC dust group – conductive dust (T50°C surface temperature for dust evaluation less than 50°C) (Dc dust atmosphere EPL (Equipment Protection Level) Zone 22)
IIC T6 Gc	IIC gas group. Suitable for group II gases, vapours and mists (e.g., Hydrogen). T6 surface temperature classification for gases, vapours and mists less than 85°C. Gc gas atmosphere EPL (Equipment Protection Level) Zone 2.
Serial Number	For example 17H 123 – made in August 2017 number 123
X	Refer to instruction book for special operating or user information
ATEX Cert No. EMT17ATEX0050X	The product has been tested and approved by an independent test house.
UKEX Cert No. EMA21UKEX0068X	The product has been tested and approved by an independent test house.
Technical File Ref KAV15 – 45	The technical file is lodged at Element Materials Technology Ltd.



8. Spare Parts

The following tables list spare parts for each KAV Type H model.

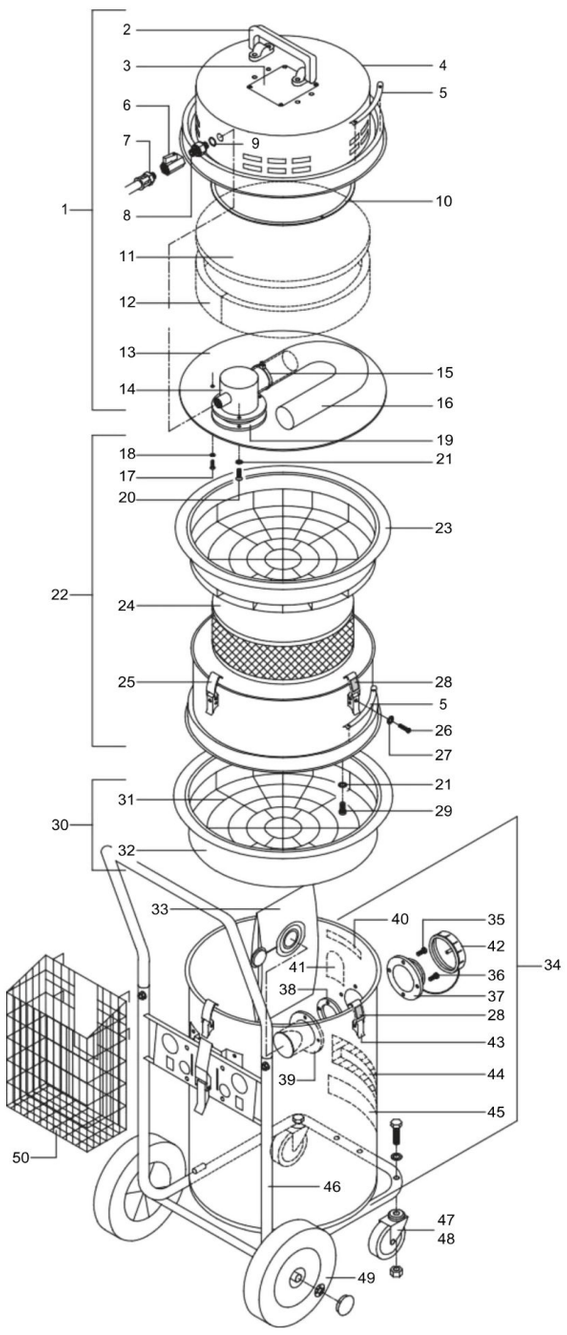


[a] A/S = Anti-static / Conductive

Table 2. Spare Parts for KAV 15H

Item	Quantity	Description	Part Number
1	1	KAV 15H Motor Head and Air Supply Hose	25-204-20-819
2	1	A/S[a] Flip Flop Handle Assembly	25-215-10-068
3	1	KAV 15-45H Rating Plate	25-216-10-028
4	1	KAV 15 and 18 Top Pressing	25-204-10-485
5	2	Earth Strip Curved	25-204-10-531
6	1	Ball Valve	25-215-10-072
7	1	Air Supply Hose A/S 5 Metre	25-204-10-490
8	1	1/4 BSP Male to Male Nipple	25-204-10-1607
9	2	Soft Metal Washer	25-215-10-074
10	1	800 x 4 x 6mm Foam Rubber Seal	25-325-10-025
11	1	Foam Silencing KAV 15/18 Top	25-320-10-017
12	1	Foam Silencing KAV 15-45 Side	25-320-10-031
13	1	KAV 15 and 18 Motor Plate	25-204-10-486
14	1	Air Motor	25-217-10-056
15	1	Tyrap for Sound Attention Hose	25-215-10-075
16	1	330 x 40mm Sound Attenuation Hose	25-320-10-006
17	4	M4 x 12 Pan Pozi Screw	25-215-10-094
18	4	M4 Shakeproof Washer	25-215-10-102
19	1	Gasket for Air Motor	25-325-10-027
20	3	M5 x 16 Pan Pozi Screw	25-215-10-124
21	9	M5 Shakeproof Washer	25-215-10-150
22	1	KAV 15 and 18H HEPA Filter Assembly	25-712-20-054
23	1	12" A/S Sealing Ring and Frame	25-325-10-004
24	1	KAV 15 and 18H HEPA Filter	25-712-10-074
25	3	Clip for KV15 and 18H with Lock Down Facility	25-215-20-006
26	3	M4 x 20 Pan Pozi Screw	25-215-10-096
27	3	Retaining Ring for M4 Screw	25-215-10-114
28	6	M5 x 16 Pan Pozi Screw	25-215-10-124
29	2	Clip Here Yellow Label 16 x 25mm	In-House Printed Label
30	1	12" A/S Filter Assembly	25-712-20-014
31	1	12" A/S Filter Frame	25-204-10-385
32	1	12" A/S Filter Cloth	25-712-10-032
33	1	K1 Microfibre Bag	25-712-10-007
34	1	KAV15H Can Assembly	25-204-20-923
35	2	M5 x 20 Pan Pozi S/Steel Screw	25-215-10-145
36	2	M5 x 16 Pan Pozi S/Steel Screw	25-215-10-144
37	1	Hose Entry Spigot Outer A/S	25-204-10-255
38	1	Spigot Retainer	25-204-10-253
39	1	S/Steel Deflector	25-204-20-187
40	1	ATEX/UKEX Category 2 Black on Yellow Label	25-216-10-059
41	1	Zone 1/21 Warning Label	25-216-10-063
42	1	A/S Blanking Cap and Strap	25-204-20-182
43	3	Clip for Max, Prima, KV5, 10, 15 & 18	25-215-20-004
44	1	Type H Warning Label Red/White Foil	25-216-10-067 (FOIL BACK)
45	2	Kerstar Red/Silver Label	25-216-10-094
46	1	KAV15 A/S Chassis (No Castors)	25-204-20-1075
47	4	75mm A/S Push In Castor	25-215-10-012

[a] A/S = Anti-static / Conductive

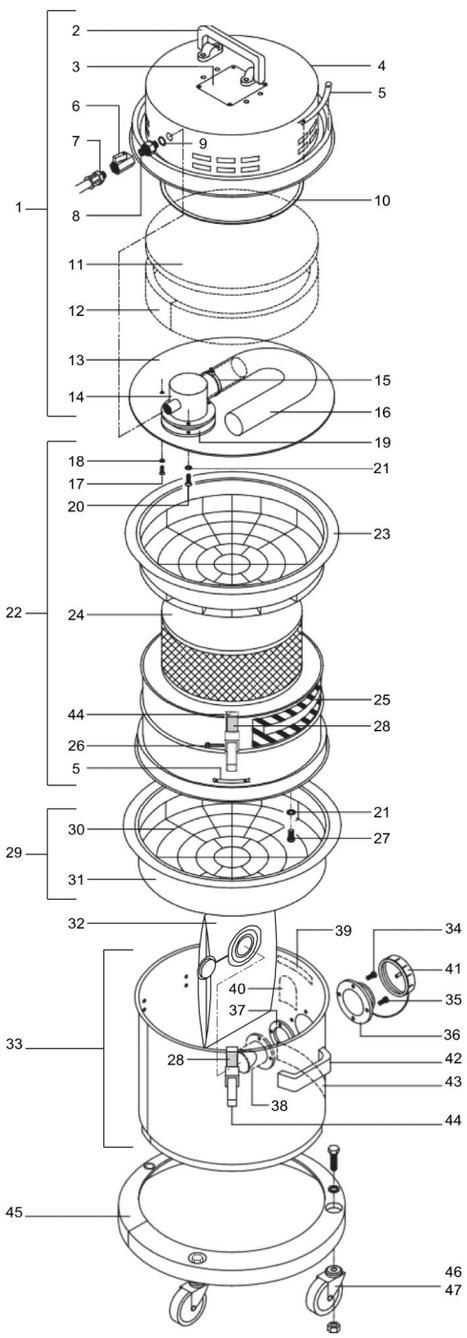


[a]·A/S = Anti-static / Conductive

Table 3. Spare Parts for KAV 18H

Item	Quantity	Description	Part Number
1	1	KAV 18H Motor Head and Air Supply Hose	25-204-20-834
2	1	A/S[a] Flip Flop Handle Assembly	25-215-10-068
3	1	KAV 15-45H Rating Plate	25-216-10-028
4	1	KAV 15 and 18 Top Pressing	25-204-10-485
5	2	Earth Strip Curved	25-204-10-531
6	1	Ball Valve	25-215-10-072
7	1	Air Supply Hose A/S 5 Metre	25-204-10-490
8	1	1/4 BSP Male to Male Nipple	25-204-10-1607
9	2	Soft Metal Washer	25-215-10-074
10	1	800 x 4 x 6mm Foam Rubber Seal	25-325-10-025
11	1	Foam Silencing KAV 15/18 Top	25-320-10-017
12	1	Foam Silencing KAV 15-45 Side	25-320-10-031
13	1	KAV 15 and 18 Motor Plate	25-204-10-486
14	1	Air Motor	25-217-10-056
15	1	Tyrap for Sound Attention Hose	25-215-10-075
16	1	330 x 40mm Sound Attention Hose	25-320-10-006
17	4	M4 x 12 Pan Pozi Screw	25-215-10-094
18	4	M4 Shakeproof Washer	25-215-10-102
19	1	Gasket for Air Motor	25-325-10-027
20	3	M5 x 16 Pan Pozi Screw	25-215-10-124
21	9	M5 Shakeproof Washer	25-215-10-150
22	1	KAV 15 and 18H HEPA Filter Assembly	25-712-20-054
23	1	12" A/S Sealing Ring and Frame	25-325-10-004
24	1	KAV 15 and 18H HEPA Filter	25-712-10-074
25	3	Clip for KV15 and 18H with Lock Down Facility	25-215-20-006
26	3	M4 x 20 Pan Pozi Screw	25-215-10-096
27	3	Retaining Ring for M4 Screw	25-215-10-114
28	2	Clip Here Yellow Label 16 x 25mm	In House Printed Label
29	6	M5 x 16 Pan Pozi Screw	25-215-10-124
30	1	12" A/S Filter Assembly	25-712-20-014
31	1	12" A/S Filter Frame	25-204-10-385
32	1	12" A/S Filter Cloth	25-712-10-032
33	1	K4 Microfibre Bag	25-712-10-008
34	1	KAV18H Can Assembly	25-204-20-928
35	2	M5 x 20 Pan Pozi S/Steel Screw	25-215-10-145
36	2	M5 x 16 Pan Pozi S/Steel Screw	25-215-10-144
37	1	Hose Entry Spigot Outer A/S	25-204-10-255
38	1	Spigot Retainer for KAV	25-204-10-253
39	1	KAV S/Steel Deflector	25-204-20-187
40	1	ATEX/UKEX Category 2 Black on Yellow Label	25-216-10-059
41	1	Zone 1/21 Warning Label	25-216-10-063
42	1	A/S Blanking Cap and Strap	25-204-20-182
43	3	Clip for Max, Prima, KV5, 10, 15 & 18	25-215-20-004
44	1	Type H Warning Label Red/White Foil	25-216-10-067 (Foil Black)
45	1	Kerstar Red/Silver Label	25-216-10-094
46	1	KAV18 Caddy Assembly S/Steel (with A/S Wheels and Castors)	25-204-20-109
47	1	75mm A/S Castor Unbraked	25-215-10-016
48	1	75mm A/S Castor Braked	25-204-10-1426
49	2	200mm A/S Wheel	25-215-10-474
50	1	KAV/KEVA (18, 30 and 45) Hose and Accessory Basket	25-204-10-351

[a]·A/S = Anti-static / Conductive

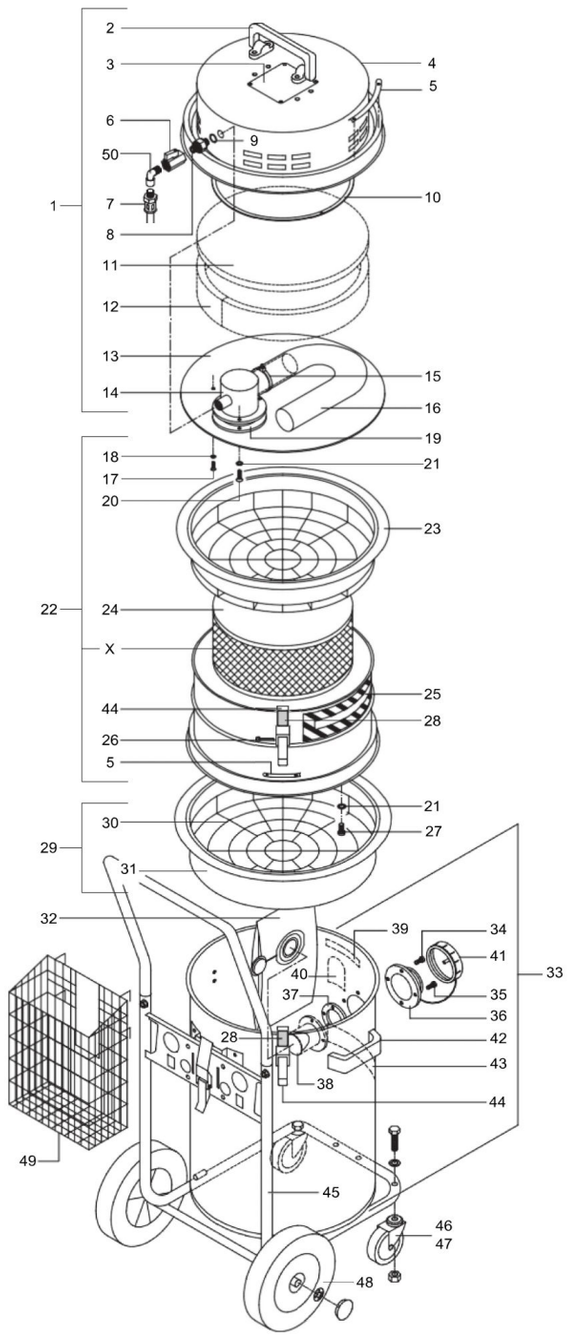


[a]·A/S = Anti-static / Conductive

Table 4. Spare Parts for KAV 20H

Item	Quantity	Description	Part Number
1	1	KAV 20H Motor Head and Air Supply Hose	25-204-20-846
2	1	A/S[a] Flip Flop Handle Assembly	25-215-10-068
3	1	KAV 15-45H Rating Plate	25-216-10-028
4	1	KAV 20-45 Top Pressing	25-852-10-026
5	2	Earth Strip Curved	25-204-10-531
6	1	Ball Valve	25-215-10-072
7	1	Air Supply Hose A/S 5 Metre	25-204-10-490
8	1	1/4 BSP Male to Male Nipple	25-204-10-1607
9	2	Soft Metal Washer	25-215-10-074
10	1	850 x 4 x 6mm Foam Rubber Seal	25-325-10-026
11	1	Foam Silencing KAV 20-45 Top	25-320-10-030
12	1	Foam Silencing KAV 15-45 Side	25-320-10-031
13	1	KAV 20-45 Motor Plate	25-204-10-530
14	1	Air Motor	25-217-10-056
15	1	Tyrap for Sound Attention Hose	25-215-10-075
16	1	500 x 40mm Sound Attenuation Hose	25-320-10-006
17	4	M4 x 12 Pan Pozi Screw	25-215-10-094
18	4	M4 Shakeproof Washer	25-215-10-102
19	1	Gasket for Air Motor	25-325-10-027
20	3	M5 x 16 Pan Pozi Screw	25-215-10-124
21	9	M5 Shakeproof Washer	25-215-10-150
22	1	KAV 20, 30 and 45H HEPA Filter Assembly	25-712-20-056
23	1	14" A/S Sealing Ring and Frame	25-325-20-004
24	1	KAV/KEVA20, 30 & 45H HEPA Filter	25-712-10-067
25	1	Type H Warning Plate Red/White	25-216-10-067
26	2	Split Pin	N/A
27	6	M5 x 6 Pan Pozi Screw	25-215-10-121
28	2	Clip Here Yellow Label 23 x 34mm	25-216-10-056
29	1	14" A/S Filter Assembly	25-712-20-015
30	1	14" A/S Filter Frame	25-204-10-387
31	1	14" A/S Filter Cloth	25-712-10-033
32	1	K4 Microfibre Bag	25-712-10-008
33	1	KAV20H Can Assembly	25-204-20-946
34	2	M5 x 20 Pan Pozi S/Steel Screw	25-215-10-145
35	2	M5 x 16 Pan Pozi S/Steel Screw	25-215-10-144
36	1	Hose Entry Spigot Outer A/S	25-204-10-255
37	1	Spigot Retainer for KAV	25-204-10-253
38	1	KAV S/Steel Deflector	25-204-20-187
39	1	ATEX/UKEX Category 2 Black on Yellow Label	25-216-10-059
40	1	Zone 1/21 Warning Label	25-216-10-063
41	1	A/S Blanking Cap and Strap	25-204-20-182
42	2	A/S Curved Surface Handle with Screws and Washers	25-215-10-528
43	1	Kerstar Red/Silver Label	25-216-10-094
44	4	KV20-110 Clip for Metal Head	25-215-10-031
45	1	KAV/KEVA 20 A/S Chassis (No Castors)	25-204-20-1080
46	3	75mm A/S Castor Unbraked	25-215-10-016
47	1	75mm A/S Castor Braked	25-204-10-1426

[a]·A/S = Anti-static / Conductive

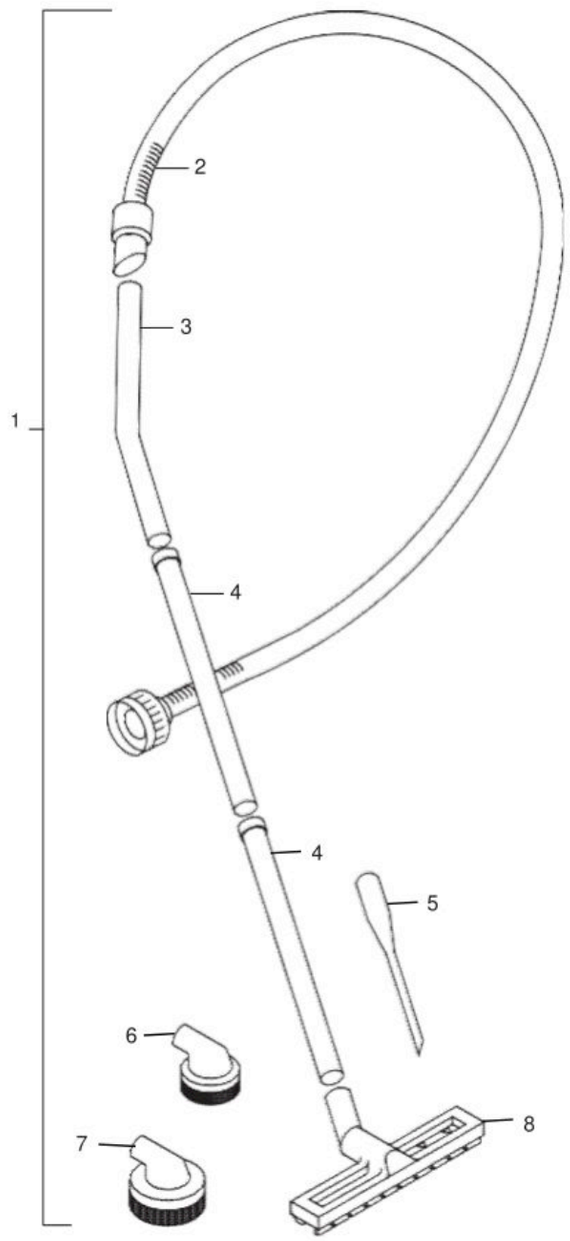


[a]·A/S = Anti-static / Conductive

Table 5. Spare Parts for KAV 30H and 45H

Item	Quantity	Description	Part Number
1	1	Motor Head and Air Supply Hose	25-204-20-858 (30H) / 25-204-20-870 (45H)
2	1	A/S[a] Flip Flop Handle Assembly	25-215-10-068
3	1	KAV 15-45H Rating Plate	25-216-10-028
4	1	KAV 20-45 Top Pressing	25-852-10-026
5	2	Earth Strip Curved	25-204-10-531
6	1	Ball Valve	25-215-10-072
7	1	Air Supply Hose A/S 5 Metre	25-204-10-490
8	1	1/4 BSP Male to Male Nipple	25-204-10-1607
9	2	Soft Metal Washer	25-215-10-074
10	1	850 x 4 x 6mm Foam Rubber Seal	25-325-10-026
11	1	Foam Silencing KAV 20-45 Top	25-320-10-030
12	1	Foam Silencing KAV 15-45 Side	25-320-10-031
13	1	KAV 20-45 Motor Plate	25-204-10-530
14	1	Air Motor	25-217-10-056
15	1	Tyrap for Sound Attention Hose	25-215-10-075
16	1	500 x 40mm Sound Attention Hose	25-320-10-006
17	4	M4 x 12 Pan Pozi Screw	25-215-10-094
18	4	M4 Shakeproof Washer	25-215-10-102
19	1	Gasket for Air Motor	25-325-10-027
20	3	M5 x 16 Pan Pozi Screw	25-215-10-124
21	9	M5 Shakeproof Washer	25-215-10-150
22	1	KAV 20, 30 and 45H HEPA Filter Assembly / "" Without HEPA Filter	25-712-20-056 / 25-712-20-051
23	1	14" A/S Sealing Ring and Frame	25-325-20-004
24	1	KAV/KEVA20, 30 & 45H HEPA Filter	25-712-10-067
25	1	Type H Warning Plate Red/White	25-216-10-067
26	2	Split Pin	N/A
27	6	M5 x 6 Pan Pozi Screw	25-215-10-121
28	2	Clip Here 23 x 34mm Black on Yellow Label	25-216-10-056
29	1	14" A/S Filter Assembly	25-712-20-015
30	1	14" A/S Filter Frame	25-204-10-387
31	1	14" A/S Filter Cloth	25-712-10-033
32	1	K4 Microfibre Bag	25-712-10-008
33	1	KAV30H Can Assembly KAV45H Can	25-204-20-970 25-204-20-1011
34	2	M5 x 20 Pan Pozi S/Steel Screw	25-215-10-145
35	2	M5 x 16 Pan Pozi S/Steel Screw	25-215-10-144
36	1	Hose Entry Spigot Outer A/S	25-204-10-255
37	1	Spigot Retainer	25-204-10-253
38	1	S/Steel Deflector	25-204-20-187
39	1	ATEX/UKEX Category 2 Black on Yellow Label	25-216-10-059
40	1	Zone 1/21 Warning Label	25-216-10-063
41	1	A/S Blanking Cap and Strap	25-204-20-182
42	2	A/S Curved Surface Handle	25-215-10-528
43	1	Kerstar Red/Silver Label	25-216-10-094
44	4	KV20-110 Clip for Metal Head	25-215-10-031
45	1	KAV/KEVA 30 and 45 Caddy Assembly S/Steel (with A/S Wheels and Castors)	25-204-20-1098
46	1	75mm A/S Castor Unbraked	25-215-10-016
47	1	75mm A/S Castor Braked	25-204-10-1426
48	2	200mm A/S Wheel	25-215-10-474
49	1	KAV/KEVA Hose and Accessory Basket	25-204-10-351
50	1	1/4" BSP Elbow Male to Female (KAV45H Only)	N/A

[a]·A/S = Anti-static / Conductive



[a] A/S = Anti-Static / Conductive

Table 6. Spare Parts for the KAV Type H Tool Kit

Item	Quantity	Part Number	Description
1	1	25-132-30-037	38mm D1 A/S[a] Tool Kit (Items 2-8)
2	1	25-204-20-079	38mm x 3m A/S Hose Assembly
3	1	25-204-10-1878	38mm Stainless Steel Bent Hose End
4	2	25-204-10-1877	38mm Stainless Steel Wand
5	1	25-204-10-212 (?)	38mm Crevice Tool A/S Plastic
6	1	25-204-10-1296	38mm x 70mm A/S Dusting Brush
7	1	25-204-20-195	38mm x 100mm A/S Dusting Brush
8	1	25-204-20-1330	38mm x 375mm A/S Heavy Duty Floor Tool with Brushes

[a] A/S = Anti-Static / Conductive

9. EU Declaration of Conformity (Machinery)

EC DECLARATION OF CONFORMITY			FILTERMIST
Manufacturer's name:	Filtermist Limited	**Machinery covered by this declaration:**	
Full address:	Telford 54 Business Park, Nedge Hill, Telford Shropshire TF3 3AL	Description:	Industrial Vacuum Cleaner
		Function:	To be used in a dust producing workstation environment to remove potentially hazardous dust from surface and the air
		Type:	KAV Series
		Model:	KAV 15,18,20,30 & 45 KAV 15H,18H,20H,30H & 45H KAV 15WD,18WD,20WD,30WD & 45 WD
		Serial No.:	Year-Unit Produced - e.g. 25 001 is the first unit made in 2025
The machinery conforms to all the requirements of the Machinery Directive 2006/42/EC.			
The following standards have been used:	EN12100:2010, EN 60204-1:2018, EN ISO 14120:2015, EN ISO 13857:2019		
The technical file is compiled in accordance with part A of Annex VII of the Machinery Directive 2006/42/EC.			
Person authorised to compile the technical file (based in the European Community):	Name:	**Absolent AB**	
	Address:	Staplaregatan 1SE-531 40 LidköpingSweden	
The relevant authorised person undertakes to transmit, in response to a reasoned request by the national authorities, relevant information on the machinery. This information will be transmitted by: (email, post)			
Person authorised to make this declaration:	Name:	Mark Newman	
	Position in company:	Operations Director	
	Signature:		
	Place of Declaration:	Filtermist Limited, Telford 54 Business Park, Nedge Hill, Telford, Shropshire, TF3 3AL	
	Date of Declaration:	1st June 2026	

V2

10. EU Declaration of Conformity (ATEX)

EU Declaration of Conformity (DOC)

We

Company name:	Filtermist Limited
Postal address:	Telford 54 Business Park, Nedge Hill
City	Telford
Postcode:	TF3 3AL
Telephone number:	01952 290500
E-Mail address:	sales@filtermist.com

Declare that this DOC is issued under the sole responsibility of the manufacturer.

Product:	Industrial Vacuum Cleaner
Type:	KAV Series
Model No's:	KAV 15,18,20,3,45 & KAV 15H,18H,20H,30H,45H & KAV 15WD,18WD,20WD,30WD,45WD
Batch:	N/A
Serial number:	Year-Unit Produced Count - e.g. 25 001 is the first unit made in 2025
Brand Name:	Kerstar (a subsidiary of Filtermist)

Object of the declaration

To be used in a dust producing workstation environment to remove potentially hazardous dust from surface and the air	

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

EMC Directive 2014/30/EC

RoHS Directive 2015/863/EU

ATEX 2014/34/EU:

II 2 D Ex h IIIC T50°C Db II 2 G Ex h IIC T6 Gb **ATEX Cert No:** EMT17ATEX0050X

Pressure Equipment Directive (PED) 2014/68/EU

The following harmonised standards and technical specifications have been applied:

Title, Date of standard/specification:

EN IEC 60079-0, EN ISO 80079-36:2016, EN ISO 80079-37:2016, EN 1127-1:2019, EN 14491:2012, EN 61000-6-2:2019, EN 61000-6-4:2019, EN 13445-1:2021, EN 13445-2:2021, EN 13445-3:2021, EN 13445-4:2021, EN 13445-5:2021, EN 13445-6:2021, EN IEC 63000:2018

Additional information:

The relevant authorised person undertakes to transmit, in response to a reasoned request by the national authorities, relevant information on the machinery. This information will be transmitted by: (email, post).

Person authorised to compile the technical file, based in the European Community is: Absolent AB

Address: Staplaregatan 1, SE-531 40 Lidköping, Sweden

Signed for and on behalf of:

Place of issue	**yyyy-mm-dd**	**Name, function, signature**
Filtermist Limited, Telford 54 Business Park, Nedge Hill, Telford, Shropshire, TF3 3AL, England	2026-06-01	Mark Newman Operations Director

11. EU Declaration of Conformity (NON-ATEX)

EU Declaration of Conformity (DOC)

We

Company name:	Filtermist Limited
Postal address:	Telford 54 Business Park, Nedge Hill
City	Telford
Postcode:	TF3 3AL
Telephone number:	01952 290500
E-Mail address:	sales@filtermist.com

Declare that this DOC is issued under the sole responsibility of the manufacturer.

Product:	Industrial Vacuum Cleaner
Type:	KAV Series
Batch:	N/A
Serial number:	Year-Unit Produced - e.g. 25 001 is the first unit made in 2025
Brand Name:	Kerstar (a subsidiary of Filtermist)

Object of the declaration

To be used in a dust producing workstation environment to remove potentially hazardous dust from surface and the air	

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

EMC Directive 2014/30/EC

RoHS Directive 2015/863/EU

Pressure Equipment Directive (PED) 2014/68/EU

The following harmonised standards and technical specifications have been applied:

Title, Date of standard/specification:

EN 61000-6-2:2019,EN 61000-6-4:2019,EN 13445-1:2021,EN 13445-2:2021,EN 13445-3:2021,EN 13445-4:2021,EN 13445-5:2021,EN 13445-6:2021, EN IEC 63000:2018

Additional information:

The relevant authorised person undertakes to transmit, in response to a reasoned request by the national authorities, relevant information on the machinery. This information will be transmitted by: (email, post).

Person authorised to compile the technical file, based in the European Community is: Absolent AB

Address: Staplaregatan 1, SE-531 40 Lidköping, Sweden

Signed for and on behalf of:

Place of issue	**yyyy-mm-dd**	**Name, function, signature**
Filtermist Limited, Telford 54 Business Park, Nedge Hill, Telford, Shropshire, TF3 3AL, England	2026-06-01	Mark Newman Operations Director

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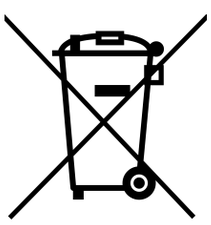

Protecting the Environment: Disposal

When this product has reached the end of its useful life it must be recycled in an environmentally friendly manner. It must not be disposed of with normal household waste.

This product is likely to contain or be contaminated with dust hazardous to health. It must be thoroughly decontaminated in accordance with best practice before recycling

www.kerstar.com

Kerstar® products are manufactured by Filtermist Limited, based at Telford 54 Business Park, Nedge Hill, Telford, Shropshire, TF3 3AL, England.

(+44) 1952 290500 | sales@filtermist.com | www.filtermist.com

Although every effort has been made to maintain accuracy of information and specifications in this manual, no liability can be accepted for errors and omissions and this manual forms no part of a contract. Filtermist International Limited may introduce modifications and improvements from time to time, and consequently the details given in this manual are subject to alteration without notice.

Supplied by:

Certificate Number 1122
ISO 9001
ISO 14001