KERSTAR

Part of Absolent Air Care Group

**230V Class 1 (Earthed), 50-60Hz, 1.0KW**
**110V Class 1 (Earthed), 50-60Hz, 0.9KW**

**Category 3 (Dust Zone 22)**
**UKCA CE Ex II 3D Ex h tc T100°C Dc**

# KEVA 20H, KEVA 30H and KEVA 45H Type H Dry Pick-Up Vacuum Cleaner

Original Instructions

KEVA Type H | Version 1.0 | Last Updated December 20, 2024
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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. **Performance** ..... 6
    2.6. **Sound Power and Sound Pressure Levels** ..... 6
    2.7. **Carrying and Storage** ..... 7
    2.8. **Technical Specifications** ..... 7
3. **Operation** ..... 8

    3.1. **Cable and Plug** ..... 8
    3.2. **Motor** ..... 9
    3.3. **Filtration System** ..... 9
4. **KAVIT Interceptor Tank** ..... 10

5. **Loss of Suction and Thermal Switch** ..... 11

    5.1. **Disposable Bags** ..... 11
    5.2. **Antistatic Cloth Filter Assembly** ..... 11
    5.3. **HEPA Cartridge Filter** ..... 11
6. **Maintenance** ..... 12

    6.1. **Dust/Debris Disposal** ..... 12
    6.2. **Decontamination** ..... 12
    6.3. **Yellow Flashing Warning Light** ..... 13
7. **Guarantee and Servicing** ..... 15

    7.1. **Guarantee** ..... 15
    7.2. **Servicing** ..... 15
8. **Spare Parts** ..... 16

9. **Rating Plate** ..... 17

10. **EU Declaration of Conformity (Machinery)** ..... 18

11. **EU Declaration of Conformity (ATEX)** ..... 19

12. **EU Declaration of Conformity (NON-ATEX)** ..... 20

# 1. Introduction

Welcome to the user manual for your new Kerstar® KEVA product!

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.

KEVA products are designed to pick up inert dust and debris in an unzoned area where inflammable dust, gases or vapours are not present; inert dust and debris in a Dust Zone 22 area; conductive and non-conductive dust or debris that may form an explosive dust atmosphere in a Dust Zone 22 area. In addition to these, Type H products can be used to pick up dust and debris that is hazardous to health in a Dust Zone 22 area and conductive and non-conductive dust and debris that is hazardous to health and may form an explosive dust atmosphere in a Dust Zone 22 area.

## 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

- This machine is for dry use and indoor use only. Store indoors only.
- This appliance is not suitable for collecting radioactive, pyrophoric or self-reactive dusts, or dusts with an ignition energy of less than 1mJ. Do not pick up glowing dust or other ignition hazards.
- Only Type H models are suitable for collecting hazardous dusts (i.e., non-radioactive, non-explosive dusts that may be very toxic, harmful, corrosive or irritating). Type H models are not suitable to pick up dusts or liquids of high explosion risk, nor mixtures of combustible dust with liquids.
- Type H models are only suitable for picking up combustible dust in Zone 22 and are not suitable to be connected with dust-generating machines.
- 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.
- When collecting dust or debris that may ignite or explode, empty the cleaner after every use.
- Never remove a Type H vacuum cleaner from a contaminated area unless it has been decontaminated in accordance with the procedures described in this manual.

⚠ **DANGER!** Do not separate when energized, or when an explosive atmosphere is present.

⚠ **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.

## 2.2. Unpacking

Upon receipt of your delivery, unpack the carton and ensure that you have a complete set of accessories as listed in the table below, alongside your vacuum cleaner. This vacuum cleaner must not be installed and/or used as a fixed extraction system and/or run unattended. A/S = Antistatic/Conductive.

### Table 1. Components for KEVA and KEVA Type H Models

| Component Description | Quantity |
|---|---|
| 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 |
| K4 Disposable Microfibre Bags | 5 |
| Yellow Earth Path Continuity Certificate | 1 |
| Antistatic Filter Assembly (Type H Models Only) | 1 |
| Blue Type H Test Certificate (Type H Models Only) | 1 |

In addition to the above, KEVA Type H models have the following unique components:

As an optional extra, a hose and accessory basket can be provided (KEVA 30, KEVA 45, KEVA 30H and KEVA 45H only). Models on a caddy (KEVA 30 and KEVA 45) are packed with the caddy handle removed for transport/packing purposes - refit the handle before use.

## 2.3. Electrical Information

Please be aware of the following information prior to commissioning:

- This product must be earthed.
- This product must only be plugged into a suitable wall mounted outlet socket - it must not be permanently wired into the electrical supply.
- Do not use any type of extension lead or cord at any time with the product.
- Do not plug or unplug under load.

## 2.4. Commissioning

To commission your KEVA series product, follow this procedure:

1. Carefully inspect your product for damage. If any damage is found do not use the product - please report any damage to your supplier.
2. Make sure the plug fitted is suitable for your outlet socket.
3. Make sure that the electrical supply requirements on the rating plate are in accordance with your electrical supply.
4. **Optional for Type H models only.** Remove the motor head/HEPA unit from the canister and ensure the full filtration system is fitted. Then, refit the motor head/HEPA unit.

Prior to use, conduct a risk assessment to ensure that your vacuum cleaner is suitable for your specific environment and requirements. Always ensure that the operators of your vacuum cleaner are trained in its operation.

This appliance 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.

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

## 2.5. Performance

The following table lists expected performance values for KEVA series products.

### Table 2. Performance for KEVA Series Products

| Voltage | Max Airflow | Max Vacuum |
|---|---|---|
| 110 v | 56 l/s or 200 m³/Hr | 2100 mmH2O[a.] or 206 hPa[b.] |
| 230 v | 59 l/s or 210 m³/Hr | 2300 mmH2O or 225 hPa |

[a.] Millimetres of water column at 4 deg C pressure unit.

[b.] Hectopascal (100 x 1 pascal) pressure units.

## 2.6. Sound Power and Sound Pressure Levels

The following table provides information on sound power and sound pressure levels in accordance with legislation.

### Table 3. Declared Dual Number Noise Emission Values in Accordance with ISO 4871:1996

| Parameter | Value |
|---|---|
| Measured A-Weighted Sound Power Level ($L_{WA}$) (ref. 1pW, decibels dB(A)) | 77.6 + 13.7 = 91.3 (dB(A) re 1pW) |
| Uncertainty (KWA in decibels, dB) | 2 dB |
| Measured A-weighted emission sound pressure level, LpA (ref 20 μPa) at the operator's position in decibels (1 LpA calculated to BS EN ISO 1120:2009 using d = 1m) | LpA = 91.3 – 13.7 = 77.6 dB(A) re 20 μPa |
| Uncertainty (kPa in decibels, dB) | 2 dB |

The magnitude of vibration emissions for the machine at the hose end is **below 2.5m/s²**.

## 2.7. 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.

## 2.8. Technical Specifications

The following table provides technical specifications for KEVA models. If you require information on particular parameters not listed here, please contact us (see the back verso page of this manual for contact details).

### Table 4. Technical specifications for KEVA models

| | KEVA 20/20H | KEVA 30/30H | KEVA 45/45H |
|---|---|---|---|
| **Dimensions (H x W x D)** | 830x440x440mm | 960x450x500mm | 1080x450x500mm |
| **Weight** | 21.2kg | 26kg | 26.8kg |
| **Motor** | 1050w Max / 900w Mean 1150w Max / 1000w Mean | | |
| **Power** | 230/110V 50/60Hz | | |
| **Performance** | 110V Max Airflow 200 M³/Hr Max Vacuum 2,100mm/WG | | |
| **Capacity Litres** | 20L | 30L | 40L |
| **Mobility** | 4 x 75mm conductive castors and conductive plastic chassis[a.] | Mounted on detachable stainless steel caddy with conductive wheels and castors | |
| **Cleaning Range** | 28m | | |

[a.] All models have a locking/braked castor

# 3. Operation

This product has been designed for indoor and dry vacuum cleaning only and must not be used to pick up any liquids.

To operate your KEVA, follow this procedure:

1. Unscrew the blanking cap from the threaded hose entry. Connect the hose and accessories required.
2. Insert the mains plug into a suitable socket outlet.
3. Switch on the unit by turning the **ON/OFF** switch from "**0**" to "**1**".

**IMPORTANT!** When this unit needs to be switched off it must only be switched off (or on) using the ON/OFF switch.

**IMPORTANT!** When coiling the mains cable, ensure that any twists or knots in the cable come out at the plug end. **DO NOT** coil the cable from the plug end as all twists and knots remain in the cable and considerably shorten its life.

During operation, ensure that the following aspects are understood:

- Do not cover the motor head. This vacuum cleaner draws air into the motor head for cooling purposes.
- The disposable microfibre bag used in this vacuum cleaner is not designed to be emptied. If it is full or if the vacuum efficiency is impaired it must be replaced.
- The appliance should only be operated when all filters, including filters for motor cooling air, are in position and undamaged.
- This vacuum cleaner must remain stationary when in use.
- This vacuum cleaner is designed and rated for use in an ambient temperature range of 0ºC to +30ºC.

## 3.1. Cable and Plug

This vacuum cleaner is a **Class I (Earthed)** appliance and has **10 metres** of three core mains cable. The supply cable should be regularly examined for signs of damage - if damaged it must be replaced, either by the manufacturer, our service agent or a similar qualified and competent person in order to avoid a hazard. Please contact us for further information if required.

The cable is fitted with a standard (non ATEX/UKEX) approved plug suitable for your socket (**13 amp, 3 pin** for **UK 230 V**, **16 amp yellow round pin** for **UK 110V** and **16 amp round pin** for **Europe 230 V**). The fitted plug is suitable for standard supply sockets that are situated outside the zoned area.

If the supply socket is situated within the zoned area it should be ATEX/UKEX approved - the standard (as-supplied) plug on this appliance should be removed and changed for a plug that is ATEX/UKEX approved. Ensure the plug that has been removed is disposed of immediately so there is no chance of the plug being used. The replacement plug must be fitted by a competent person following the fitting instructions provided by the plug manufacturer.

Follow this procedure to replace the plug:

1. Ensure that the lengths of wire to be fitted inside the plug have been cut to the correct length and the end correctly prepared. When preparing the cable ends, take care not to damage the outer sheath or the insulation surrounding the inner conductors.
2. Connect the **blue (NEUTRAL)** wire to the terminal in the plug which is marked with the letter "**N**" or coloured **black**.
3. Connect the **brown (LIVE)** wire to the terminal in the plug which is marked with the letter "**L**" or coloured **red**.
4. Connect the **green/yellow (EARTH)** wire to the terminal in the plug which is marked with the letter "**E**" or coloured **green**.

5. Tighten all screws. Ensure that all conductor strands have entered into the terminal posts and that the mains lead is securely held in place by the cable clamp.

## 3.2. Motor

KEVA models are rated in accordance with **BS EN 60335-2-69:2012** *Household and similar electrical appliances. Safety. Particular requirements for wet and dry vacuum cleaners, including power brush for commercial use*. **110 v** models are rated at **0.9 kW** while **230 v** models are rated at **1.0 kW**.

The motor is a non-sparking electronically commutated brushless motor and consumes a maximum running current of **9 amps (230 v models)** or **13 amps (110 v models)**. The electronic control of the motor limits the starting current to these values. The electrical supply should be fitted with a fuse/protective device suitable for the current demand.

The motor is thermally protected - there is a thermal switch to protect the windings in the motor and there is a thermal switch to protect the electronic control circuit board. If your vacuum cleaner cuts-out, please refer to the section **Loss of Suction**. The cut-out switches will automatically reset when the motor temperature drops.

## 3.3. Filtration System

This vacuum cleaner is fitted with two separate air filtration systems. The first is for the working air - that is, the airflow created by the motor to transport dust/debris up the hose and into the disposable bag. The second is for the cooling air - that is, the airflow created by the motor in order to keep its temperature within acceptable limits.

### Working Air

- **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.

### Cooling Air

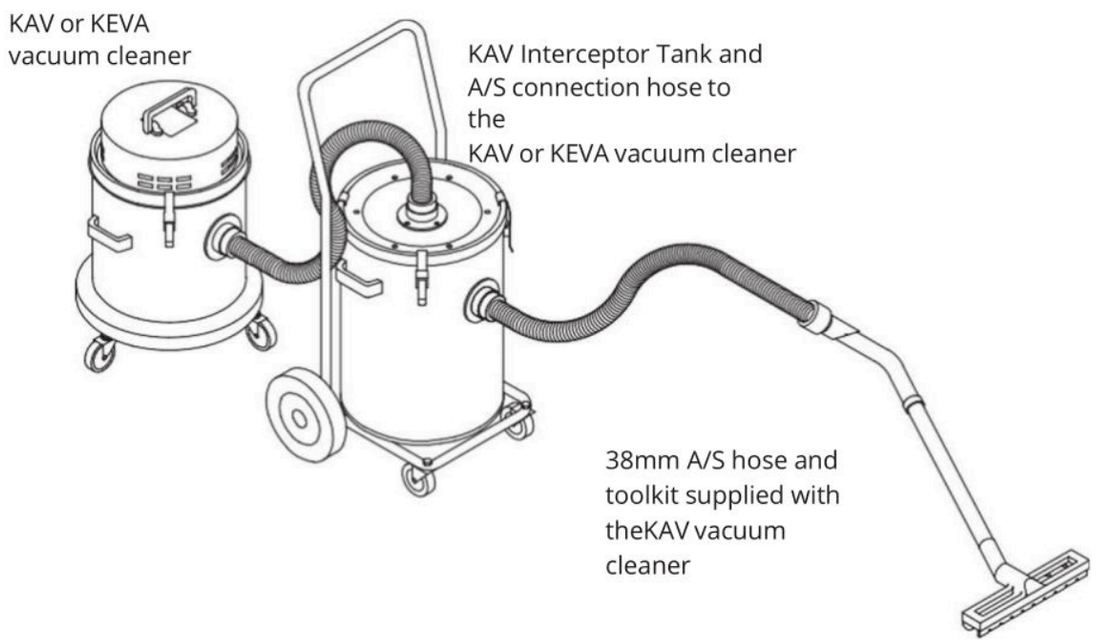
The electrical and electronic parts of the vacuum motor are protected against potentially flammable/explosive dust ingress by HEPA filters. The HEPA filter situated on the top of the motor head filters the inlet cooling air, while the exhaust outlet cooling air HEPA filter is situated within the motor head.

# 4. KAVIT Interceptor Tank

The KAVIT Interceptor Tank is an optional accessory designed to intercept dry dust or debris before it reaches your KAV. The Standard KAVIT is not designed to collect health endangering dust and debris. For this application please request a Type H KAVIT with Hepa H14 filter, The KAVIT is rated ATEX/UKEX Category 2 and is suitable for Dust Zone 21 and Gas Zone 1, when used with a Category 2 KAV 15 – 45 model.

The KAVIT is not fitted with a microfibre bag or an A/S filter assembly as the main vacuum cleaner already has these - however, it can be fitted with such if required. For W/D models, the tank is fitted with a 14" A/S float assembly - for dry pickup the A/S float assembly should be replaced with a 14" A/S sealing ring and frame without cage (optional extra).

The KAVIT Interceptor Tank is also suitable for use with KEVA models. When used with KEVA models, the KAVIT ATEX/UKEX rating reduces to ATEX/UKEX Category 3/Dust Zone 22.




A schematic diagram of the KAVIT interceptor tank, showing how it connects to your KAV or KEVA unit.

# 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. 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.

Filtration efficiency should be tested at least annually, or more frequently as specified in national requirements. The test methods that can be used to verify the machine's filter efficiency are specified in **IEC 60335-2.69 Annex AA (AA22.201.2)**. If the test fails it should be repeated with a new essential filter.

Earth continuity between the hose end and the equipment earthing point must be checked at regular intervals.

## 6.1. 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.

## 6.2. 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.

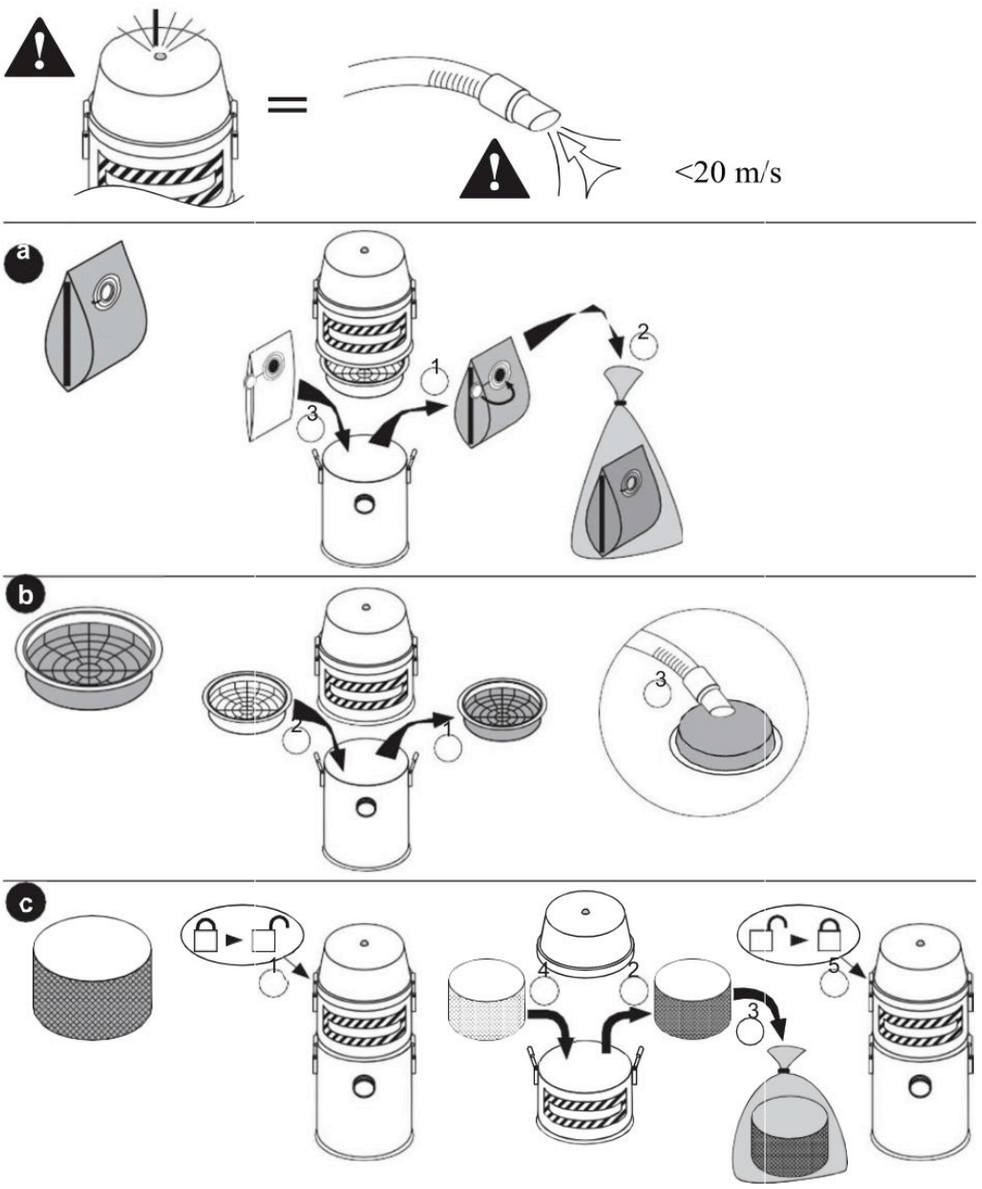
## 6.3. Yellow Flashing Warning Light

KEVA Type H models are fitted with a yellow LED warning light. This light flashes if the airspeed in the hose has dropped below 20 metres per second (m/s), indicating that there is an impediment to the airflow.

Attempt the following procedures to restore the airflow:

1. Remove the hose. If the yellow light stops flashing, this means that the hose is blocked. Unblock the hose by any means available and try again.
2. If the yellow light continues to flash with no hose connected, then there is a restriction in the air filtration system. Use the following sequence to check, replace or clean the following:

    a. Disposable microfibre bag
    b. High efficiency filter assembly
    c. HEPA Cartridge filter


<20 m/s
a
1
2
3
b
1
2
3
c
1
2
3
4
5

# 7. Guarantee and Servicing

## 7.1. 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.

## 7.2. 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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# 8. Spare Parts

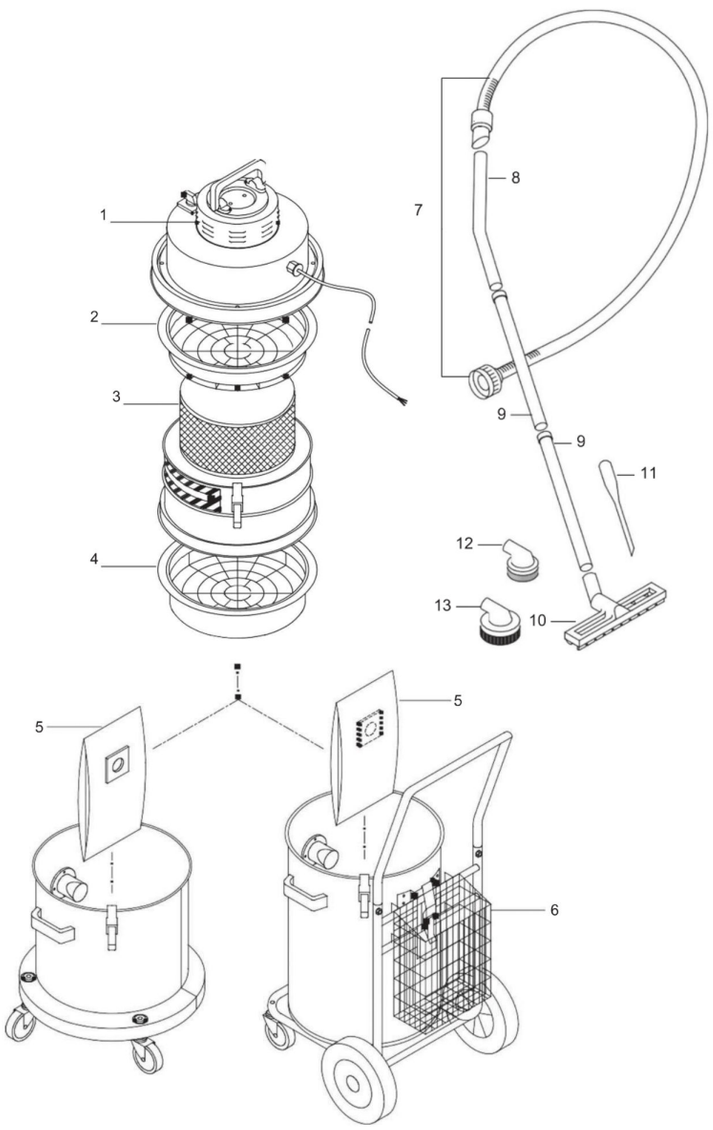



**Figure 1.** A schematic illustration of the KEVA product. Numbers indicating discrete spare parts and are detailed in the table overleaf. The upper components (1-4) and the vacuum hose and attachments (7-13) are universal to all KEVA models. The wheeled containers in the lower left and lower right represent the KEVA 20/20H and KEVA 30/30H/45/45H respectively.

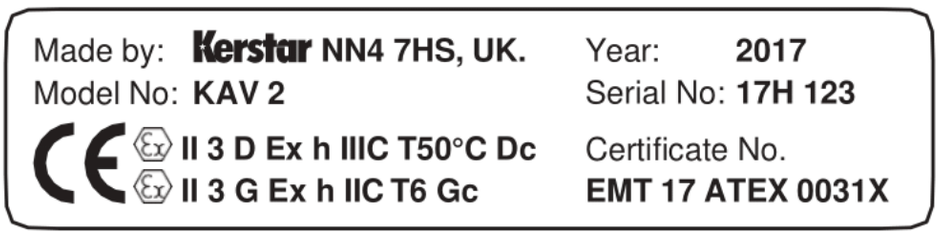
## Table 5. Spare Parts for KEVA models

| Item Number | Quantity | Part Number | Description |
|---|---|---|---|
| 1 | 1 | 25-712-10-066 | KEVA 20, 30 and 45 Inlet HEPA Filter |
| 2 | 1 | 25-325-20-005 | 14" A/S Sealing Ring and Frame Without Cage |
| 3 | 1<br>1 | ?<br>? | KAV/KEVA 20, 30 and 45 HEPA Filter<br>KAV/KEVA 20H, 30H and 45H HEPA Filter |
| 4 | 1 | 25-712-20-015 | 14" A/S Filter Assembly |
| 5 | 1 | 25-712-10-008 | K4 Microfibre Disposable Bag (Pack of 5) |
| 6 | 1 | 25-204-10-351 (?) | KAV/KEVA Hose and Accessory Basket |
| 7 | 1 | 25-204-20-079 | 38mm x 3m A/S Hose Assembly |
| 8 | 1 | 25-204-10-1878 | 38mm Stainless Steel Bent Hose End |
| 9 | 2 | 25-204-10-1877 | 38mm Stainless Steel Wand |
| 10 | 1 | 25-204-20-1330 | 38 x 375mm A/S Heavy Duty Floor Tool with Brushes |
| 11 | 1 | 25-204-10-212 | 38mm Crevice Tool A/S Plastic |
| 12 | 1 | 25-204-10-1296 | 38 x 70mm A/S Dusting Brush |
| 13 | 1 | 25-204-20-195 | 38 x 100mm A/S Dusting Brush |

# 9. 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. |



# 10. 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,<br>Nedge Hill,<br>Telford<br>Shropshire<br>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: | KEVA Series |
| | | Model: | KEVA 20,30 & 45KEVA 20H,30H & 45H |
| | | 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 | |

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# 11. 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: | KEVA 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

ATEX 2014/34/EU

Ex II 3D Ex h tc T100°C Dc

ATEX Cert No. EMT17ATEX0050X

**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 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,<br>Telford 54 Business Park,<br>Nedge Hill, Telford, Shropshire,<br>TF3 3AL, England | 2026-06-01 | Mark Newman<br>Operations Director |

# 12. 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: | KEVA 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

**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 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,<br>Telford 54 Business Park,<br>Nedge Hill, Telford, Shropshire,<br>TF3 3AL, England | 2026-06-01 | Mark Newman<br>Operations Director |

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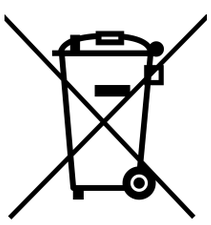

**Protecting the Environment: Disposal**

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