

KERSTAR

Part of Absolent Air Care Group

**KAV 15, KAV 18, KAV 20,
KAV 30 & KAV 45
Type H Dry Pick-Up**

**Compressed Air Powered
Vacuum Cleaner**

Category 2 (Dust Zone 21 / Gas Zone 1)

**UK
CA** **CE**  II 2 D Ex h IIIC T50°C DbII
2 G Ex h IICT6 Gb

Operating Instructions



Please read carefully before
use



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IMPORTANT USER INFORMATION

This instruction book should be retained with this appliance for future reference. Should this appliance be sold or transferred to another user, always ensure that this book is supplied with the appliance so the user has the relevant information required to safely use and maintain the KAV cleaner. The warnings in this manual are provided in the interest of safety. You must read them carefully before installing or using this appliance. It is dangerous to alter the specification or modify this appliance in any way.

This appliance is a Type H Dry Pick-Up Compressed Air Vacuum Cleaner and is designed for use in five different environments:

- 1) To pick up non-explosive dust and debris in an unzoned atmosphere.
- 2) To pick up 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).
- 3) To pick up dust and debris that may explode if ignited (Dust Zone 21) in an area where no flammable gases, vapours or mists are present. (A Dust Zone 21 atmosphere is where a potentially explosive dust cloud is likely to occur).
- 4) To pick up dust and debris that may explode if ignited (Dust Zone 21) in a Gas Zone 1 atmosphere.
- 5) To pick up 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.

Before using this appliance or any of the optional extras a risk assessment must be carried out by a competent person to ensure that this appliance is suitable for the application. The risk assessment is the responsibility of the customer/end user. The manufacturer and/or his agent are not qualified to make the risk assessment on behalf of the end user.

SPECIFIC CONDITIONS OF USE

- 1) **DONOT** remove this Type H vacuum cleaner from a contaminated area unless it has been decontaminated in accordance with the "Decontamination" section later in this book.
- 2) This appliance is not suitable for collecting radioactive dusts.
- 3) This vacuum cleaner is not suitable for picking up dust with an ignition energy of less than 1mJ.
- 4) This appliance is designed for dry use only and should be used with care outdoors. It should not be stored outdoors.
- 5) 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 must be earthed.
- 6) 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. A suitable air fuse is available from Kerstar.
- 7) 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.

- 8) 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.
- 9) Air compressors used to supply this vacuum cleaner must incorporate a filter on the intake system to avoid ingress of dust or foreign material into the parts where compression takes place and must employ only lubricants which are resistant to ignition or carbonisation within the equipment's operating temperature range.
- 10) This appliance is not to be used with pyrophoric or self-reactive dusts.
- 11) This vacuum cleaner must not be used to pick up glowing dust/particles or other ignition hazards.
- 12) When picking up swarf and similar metallic parts the KAV must not be used to pick up potentially explosive dusts or be used in potentially explosive atmospheres. Note: when rusty steel and aluminium items collide with sufficient energy it is possible to generate a spark.
- 13) Use only the hose and accessories supplied with this vacuum cleaner. These have been ATEX/UKEX tested and assessed as suitable for use with this appliance. A wide range of Kerstar ATEX/UKEX approved accessories are available from Kerstar. NEVER use any other hose or accessories.
- 14) When collecting dust or debris that may ignite or explode empty the cleaner after every use.
- 15) Use only Kerstar approved accessories and spare parts.



This appliance must be disconnected from the air supply before any maintenance tasks are carried out. Do not use the appliance for dry vacuuming with the filters and/or Microfibre bag removed.

Never use this appliance without the full filtration system fitted.

Under no circumstances should you attempt to repair the 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 and only genuine Kerstar spare parts should be used.

UNPACKING YOUR KAV VACUUM CLEANER

Unpack the carton and ensure that you have a complete set of accessories as listed below:

- 1 KAV Compressed Air Powered Vacuum Cleaner
- 1 Yellow A/S Air Supply Hose
- 1 38mm x 3m A/S Hose Assembly
- 1 38mm Stainless Steel Bent Hose End
- 2 38mm Stainless Steel Wands
- 1 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
- 5 Microfibre Bags to suit your model
- 1 Yellow Earth Path Continuity Certificate

Optional extras:

Hose & Accessory Basket (KAV 18, 30 & 45 only)

Note:

A/S = Anti-static/Conductive

Models on a caddy (KAV 18, 30 & 45) are packed with the caddy handle removed for transport/packing purposes. Refit the handle before use.

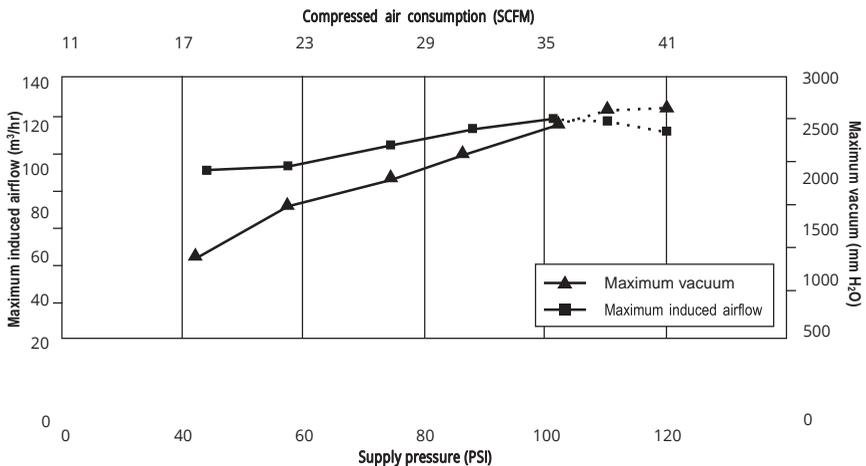
COMMISSIONING YOUR KAV VACUUM CLEANER

Attach the anti-static air supply hose to the air inlet port on the control valve. Do not over-tighten the connection. Do not use any form of liquid thread locker or PTFE tape to seal the thread. The threaded end fitting has its own integral O ring seal. 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.

Fit a metal (conductive) fitting to suit your air outlet sockets to the other end of the air supply hose. Make sure the pipework and outlet fittings of your air supply system is constructed entirely of metal pipes and fittings and is suitably earthed. Finally, using a 500 volt megohmmeter, measure the resistance between the body of the vacuum cleaner and the metal air supply pipe. The reading must be no more than 50 Megohm (5×10^7 Ohm).

PERFORMANCE/COMPRESSED AIR REQUIREMENTS

The KAV range does not require the air supply to be dried or filtered. 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 is related to the air input. The more pressure/volume of air input, the more suction/induced airflow is generated. However, 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.



Note: Optimum performance is achieved at an air input pressure of 90-120psi (6.2-8.3 Bar)

RISK ASSESSMENT (ATEX/UKEX)

If this vacuum cleaner is used for collecting flammable/explosive materials or within a zoned area classified under the ATEX/UKEX Directive 2014/34/EU then a risk assessment must be carried out by a competent person to verify the suitability of the application.

The risk assessment will be 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:

1. Spark ignition sensitivity
2. Hot surface ignition sensitivity (cloud)
3. Hot surface ignition sensitivity (layer)
4. Explosion severity
5. Burning behaviour
6. Thermal instability
7. Chemical instability
8. Static electricity generation
9. Impact of collected material
10. The ATEX/UKEX certification code for the appliance being assessed. (See the rating plate on the machine)

RISK ASSESSMENT (Type H)

If this vacuum cleaner is used for collecting dust and 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 will be 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:

1. The occupational exposure limit of the dust and debris being collected.
 2. The particle size of the dust and debris being collected.
 3. The method of disposal.
- 6

OPERATING INSTRUCTIONS

Connect the KAV to a suitable compressed air supply. Attach the anti-static hose assembly to the canister and connect the stainless steel bent hose end and wands. Choose and attach one of the anti-static tools supplied. To activate the 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. The maximum pressure must be no more than 120psi (8.3 Bar).

CARRYING & STORAGE

The assembled cleaner can be moved around by pulling the vacuum 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 air supply hose.**

When not in use this vacuum cleaner should be disconnected from the compressed air supply. This vacuum cleaner should be stored indoors in a dry environment.

OPTIONAL EXTRAS

Hose & Accessory Basket – 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. Suitable for models KAV 18, 30 & 45H only.

FILTRATION SYSTEM

This compressed air powered Type H vacuum cleaner is fitted with 3 stages of filtration on the negative pressure side of the air motor. That is before the air motor so that the air motor always receives clean filtered air.

1st Stage: K1 Disposable Microfibre Bag – KAV 15H Part No. 25-712-10-007

K4 Disposable Microfibre Bag – KAV 18, 20, 30 & 45H Part No. 25-712-10-008

K1 and K4 Microfibre disposable bags are made from Microfibre material. Microfibre bags offer better filtration efficiency and greater tear resistance from sharp debris than paper bags and are less likely to burst when full of heavy dust/debris. Microfibre disposable bags are fitted with a moulded plastic flange and sealing cap. They are fitted over the inlet inside the canister and the dust/debris is collected inside the bag. The sealing 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. Microfibre bags are not designed to be emptied and should not be reused.

2nd Stage: Anti-static Cloth Filter Assembly – KAV 15 & 18H Part No. 25-712-20-014

– KAV 20, 30 & 45H Part No. 25-712-20-015

A conductive needlefelt cloth filtration media attached to a conductive rubber sealing ring and supported by a conductive plastic rigid filter frame.

3rd stage: HEPA (High Efficiency Particulate Arrestor) Cartridge Filter

- KAV 15 & 18H Part No. 25-712-10-074
- KAV 20, 30 & 45H Part No. 25-712-10-067

Often referred to as the essential or absolute filter. It is designed to filter to a very fine particle size (0.3-0.6 micron 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 metal and is earth bonded to the body of the vacuum cleaner to dissipate any static built up in the HEPA filter.

WARNING

The appliance may contain dust hazardous to health. Emptying and maintenance operations including removal and renewal of dust collection bag must only be carried out by authorised personnel wearing suitable approved personal protection.

WARNING

Do not use the appliance unless the full filtration system is fitted – Type H HEPA cartridge, anti-static 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.

IMPORTANT

The vacuum unit is designed to collect hazardous dusts. Therefore, any dust found within the machine or on its filters may be dangerous to your health. Always take precautions.

DUST/DEBRIS DISPOSAL

(Operation carried out within a contaminated area)

This appliance may contain dust hazardous to health. Emptying and maintenance operations including removal and renewal of the dust collection bag must only be carried out by authorised personnel wearing suitable personal protection. Do not operate without the full filtration system fitted.

Disconnect the hose, fit the blanking cap on the hose entry, unlatch the toggle clips and remove the motor head/HEPA unit. Take care not to drop the motor head/HEPA unit. Remove the anti-static filter assembly, carefully release the disposable bag from the bag tube and lift out of the canister. Seal the disposable bag inlet using the integral cap on the bag collar. The disposable bag should be immediately placed in a suitably labelled impervious plastic bag, and this bag should be sealed and disposed of in accordance with the current regulations. Fit a new disposable bag over the bag tube inside the canister.

This vacuum cleaner is supplied with five spare Microfibre bags and a spare anti-static filter assembly. This (clean) spare filter should be used and the motor head/HEPA unit refitted.

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

DECONTAMINATION

Decontamination operations should only be carried out by competent authorised personnel equipped with suitable personal protection.

Before removing the accessories/vacuum cleaner from the contaminated area:

- Accessories should be cleaned externally with a Type H vacuum cleaner.
- They should then be cleaned with an adhesive wipe, sealed at each end and sealed in a clear impervious bag. The bag should carry an appropriate warning label.
- The external surfaces of the bag should then be cleaned with an adhesive wipe.
- The vacuum cleaner should be cleaned externally with itself. The disposable bag and its contents should be removed and disposed of in accordance with the method described in the section titled Dust/Debris Disposal.
- The vacuum cleaner should then be cleaned externally with an adhesive wipe.
- The vacuum cleaner should be sealed in a clear impervious bag. The bag should carry an appropriate warning label.
- The external surfaces of the bag should then be cleaned with an adhesive wipe.

MAINTENANCE

Maintenance must be carried out in a suitable controlled area with local filtered exhaust ventilation and facilities for cleaning the area after servicing.

During maintenance always disconnect from the air supply.

Maintenance and cleaning must only be carried out by competent authorised personnel equipped with suitable personal protection. All parts must be regarded as contaminated and treated as such. Another Type H vacuum cleaner should be used and each component should be 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.

LOSS OF SUCTION

If your cleaner loses suction power first check that the hose and other accessories in use are not blocked. Then check that the filtration system is not blocked. The filtration system can be serviced as follows:

Microfibre bags – If full, replace.

– If burst, empty/clean out canister and replace.

Cloth Filter Assembly – This filter will become contaminated with dust during normal use and/or if the Microfibre bag has holes in it or has burst. The dust must be removed only by vacuuming with another Type H vacuum cleaner. It is advisable to have a spare filter so that the machine itself can be used to vacuum the dust off the contaminated filter.

If any of the filters or Microfibre bags are damaged or have holes they must be replaced with new items.

SERVICING & SPARES

Should your Kerstar KAV need any servicing, repair or spares please contact your nearest Kerstar dealer or contact Kerstar directly:

Tel: +44 (0)1952 290500

Email: sales@filtermist.com

More details on servicing can be found on the Kerstar website www.kerstar.com.

Please make a note of the model and serial number before contacting Kerstar.

Before attempting any servicing of this appliance decontaminate as described above 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.

The Type H HEPA cartridge filter is not reusable or cleanable and 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 unit. Be careful when handling and fitting Type H cartridges as damage to the pleated element will affect the performance and may cause a leakage through the filter of unfiltered air.

GUARANTEE

Kerstar products are guaranteed for 12 months against defective parts and workmanship. Parts that are subject to normal wear and tear are excluded. There are certain conditions that may invalidate this guarantee:

- a) This appliance must be correctly installed and used in accordance with these instructions.
- b) Servicing must be carried out by Kerstar authorised personnel only.
- c) The guarantee may be invalidated by unauthorised repair or modification to the appliance.

Kerstar may introduce modifications to its products from time to time and consequently the details given in this instruction book are subject to alteration without notice.

Please visit www.kerstar.com for full Terms and Conditions and to activate your warranty.

RATING PLATE

The rating plate gives precise information about this product. A full explanation is given below.

1. Name and address of manufacturer
2. Manufacturers model or type number
3. Year of manufacture, assembly or construction
4. The serial no.

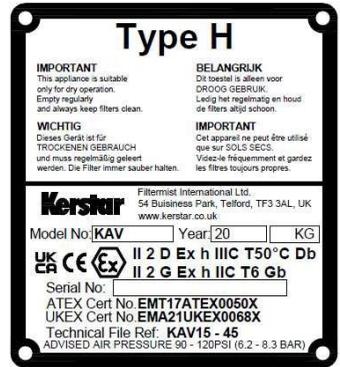
For example 18A 12345 – made in January
2018 number 12345

5. The  mark
6. The  mark
7.  symbol. The distinctive community mark showing a product is suitable for use in a potentially explosive dust and/or gas atmosphere.
8. **II** – equipment group II (surface industries)
9. **2** – Category 2 product

10. **Exh** – Protection Concept – Constructional Safety (applies to the mechanical parts of the vacuum cleaner)
11. **D** – explosive dust atmosphere

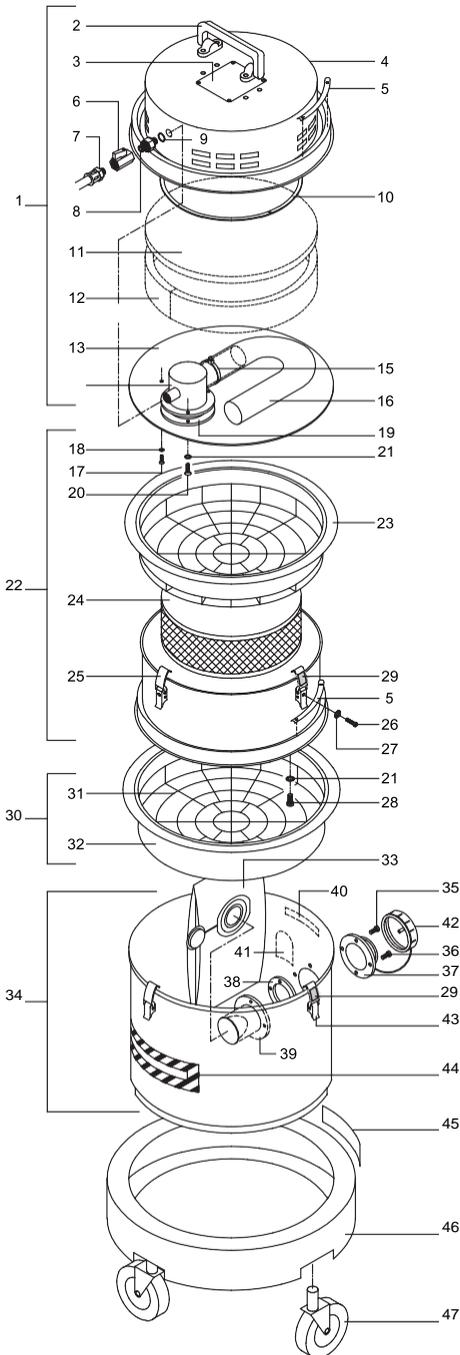
Note: As part of the Ignition Hazard Assessment the inside of the canister has been tested and approved as Category 1 Dust Zone 20.

12. **IIICT50°C Db** – **IIIC** dust group – conductive dust
 - a. **T50°C** surface temperature for dust evaluation less than 50°C
 - b. **Db** dust atmosphere EPL (Equipment Protection Level Zone 21)
13. **G** – explosive gas, vapour or mist atmosphere
14. **IIC T6 Gb** – **IIC** gas group – suitable for group II gases, vapours and mists (Hydrogen & Acetylene)
 - **T6** surface temperature classification for gases, vapours and mists less than 85°C
 - **Gb** gas atmosphere EPL (Equipment Protection Level Zone 1)
15. **ATEX Cert No. EMT17ATEX0050X** – The KAV 15-45 range has been tested and approved by an independent test house.
X – refer to instruction book for special operating or user instructions.
16. **ATEX Cert No. EMT17ATEX0050X** – The KAV 15-45 range has been tested and approved by an independent test house.
17. **UKEX Cert No. EMA21UKEX0068X** – The KAV 15-45 range has been tested and approved by an independent test house.
18. **Technical File Ref KAV15 – 45** – The Technical File for the KAV15-45 model range is lodged at Element Materials Technology Ltd.





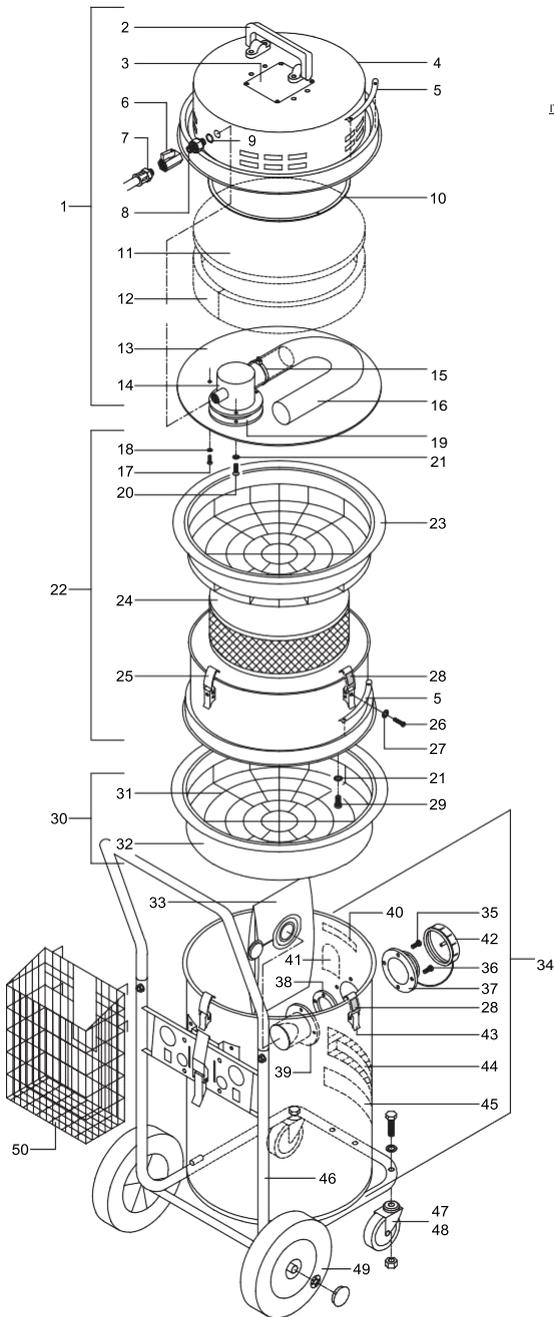
SPARE PARTS - KAV 15H



ITEM	QTY.	DESCRIPTION
1	1	KAV15H MOTOR HEAD & AIR SUPPLY HOSE
2	1	A/S FLIP FLOP HANDLE ASSEMBLY
3	1	KAV15-45H RATING PLATE
4	1	KAV15 & 18 TOP PRESSING EARTH STRIP CURVED
5	2	BALL VALVE
6	1	AIR SUPPLY HOSE A/S 5 METRE
7	1	1/4 BSP MALE TO MALE NIPPLE
8	1	SOFT METAL WASHER
9	2	800 x 4 x 6mm FOAM RUBBER SEAL
10	1	FOAM SILENCING KAV15/18 TOP
11	1	FOAM SILENCING KAV15-45 SIDE
12	1	KAV15 & 18 MOTOR PLATE
13	1	AIR MOTOR
14	1	TYRAP FOR SOUND ATTENUATION HOSE
15	1	330 x 38mm SOUND ATTENUATION HOSE
16	1	M4 x 12 PAN POZI SCREW
17	4	M4 SHAKEPROOF WASHER
18	4	GASKET FOR AIR MOTOR
19	20	M5 x 16 PAN POZI SCREW
20	3	M5 SHAKEPROOF WASHER
21	1	KAV15 & 18H HEPA FILTER ASSEMBLY
22	1	12" A/S SEALING RING & FRAME
23	1	KAV15 & 18H HEPA FILTER
24	1	CLIP FOR KV15 & 18H WITH LOCK DOWN FACILITY
25	3	M4 x 20 PAN POZI SCREW
26	3	RETAINING RING FOR M4 SCREW
27	6	M5 x 16 PAN POZI SCREW
28	2	CLIP HERE YELLOW LABEL 16 x 25mm
29	1	12" A/S FILTER ASSEMBLY
30	1	12" A/S FILTER FRAME
31	1	12" A/S FILTER CLOTH
32	1	K1 MICROFIBRE BAG
33	1	KAV15H CAN ASSEMBLY
34	2	M5 x 20 PAN POZI S/STEEL SCREW
35	2	M5 x 16 PAN POZI S/STEEL SCREW
36	1	HOSE ENTRY SPIGOT OUTER A/S
37	1	SPIGOT RETAINER FOR KAV
38	1	KAV S/STEEL DEFLECTOR
39	1	ATEX/UKEX CATEGORY 2 BLACK ON YELLOW LABEL
40	1	A/S BLANKING CAP & STRAP
41	3	CLIP FOR Max, Prima, KV5, 10, 15 & 18
42	1	TYPE H WARNING LABEL RED/WHITE FOIL
43	2	KERSTAR RED/SILVER LABEL
44	1	KAV15 A/S CHASSIS (NO CASTORS)
45	4	75mm A/S PUSH IN CASTOR

A/S = ANTI-STATIC / CONDUCTIVE

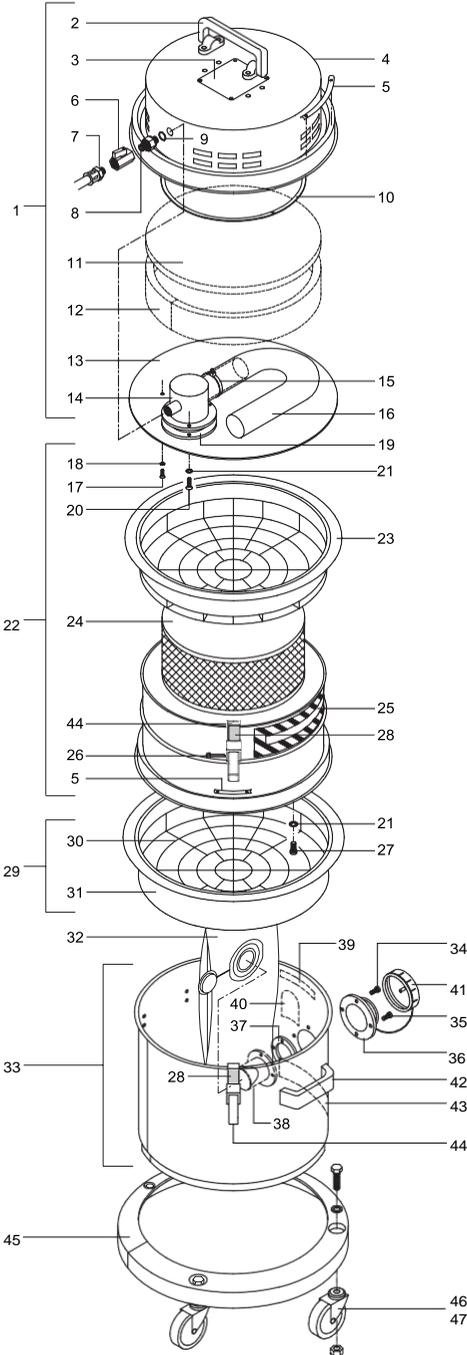
SPARE PARTS – KAV 18H



ITEM	QTY	DESCRIPTION
1	1	KAV18H MOTOR HEAD & AIR SUPPLY HOSE
2	1	A/S FLIP FLOP HANDLE ASSEMBLY
3	1	KAV15-45H RATING PLATE
4	1	KAV15 & 18 TOP PRESSING
5	2	EARTH STRIP CURVED
6	1	BALL VALVE
7	1	AIR SUPPLY HOSE A/S 5 METRE
8	1	1/4 BSP MALE TO MALE NIPPLE
9	2	SOFT METAL WASHER
10	1	800 x 4 x 6mm FOAM RUBBER SEAL
11	1	FOAM SILENCING KAV15/18 TOP
12	1	FOAM SILENCING KAV15-45 SIDE
13	1	KAV15 & 18 MOTOR PLATE
14	1	AIR MOTOR
15	1	TYRAP FOR SOUND ATTENUATION HOSE
16	1	330 x 38mm SOUND ATTENUATION HOSE
17	4	M4 x 12 PAN POZI SCREW
18	4	M4 SHAKEPROOF WASHER
19	1	GASKET FOR AIR MOTOR
20	3	M5 x 16 PAN POZI SCREW
21	9	M5 SHAKEPROOF WASHER
22	1	KAV15 & 18H HEPA FILTER ASSEMBLY
23	1	12" A/S SEALING RING & FRAME
24	1	KAV15 & 18H HEPA FILTER
25	3	CLIP FOR KV15 & 18H WITH LOCK DOWN FACILITY
26	3	M4 x 20 PAN POZI SCREW
27	3	RETAINING RING FOR M4 SCREW
28	2	CLIP HERE YELLOW LABEL 16 x 25mm
29	6	M5 x 16 PAN POZI SCREW
30	1	12" A/S FILTER ASSEMBLY
31	1	12" A/S FILTER FRAME
32	1	12" A/S FILTER CLOTH
33	1	K4 MICROFIBRE BAG
34	1	KAV18 CAN ASSEMBLY
35	2	M5 x 20 PAN POZI S/STEEL SCREW
36	2	M5 x 16 PAN POZI S/STEEL SCREW
37	1	HOSE ENTRY SPIGOT OUTER A/S
38	1	SPIGOT RETAINER FOR KAV
39	1	KAV S/STEEL DEFLECTOR
40	1	ATEX/UKEX CATEGORY 2 BLACK ON YELLOW LABEL
41	1	ZONE 1/21 WARNING LABEL
42	1	A/S BLANKING CAP & STRAP
43	3	CLIP FOR Max, Prima, KV5, 10, 15 & 18
44	1	TYPE H WARNING LABEL RED/WHITE FOIL
45	1	KERSTAR RED/SILVER LABEL
46	1	KAV18 CADDY ASSEMBLY S/STEEL (WITH A/S WHEELS & CASTORS)
47	1	75mm A/S CASTOR UNBRAKED WITH NUT, BOLT & WASHER
48	1	75mm A/S CASTOR BRAKED WITH NUT, BOLT & WASHER
49	2	200mm A/S WHEEL WITH LOCK WASHER & YELLOW CAP
50	1	KAV/KEVA (18, 30 & 45) HOSE & ACCESSORY BASKET

A/S = ANTI-STATIC / CONDUCTIVE

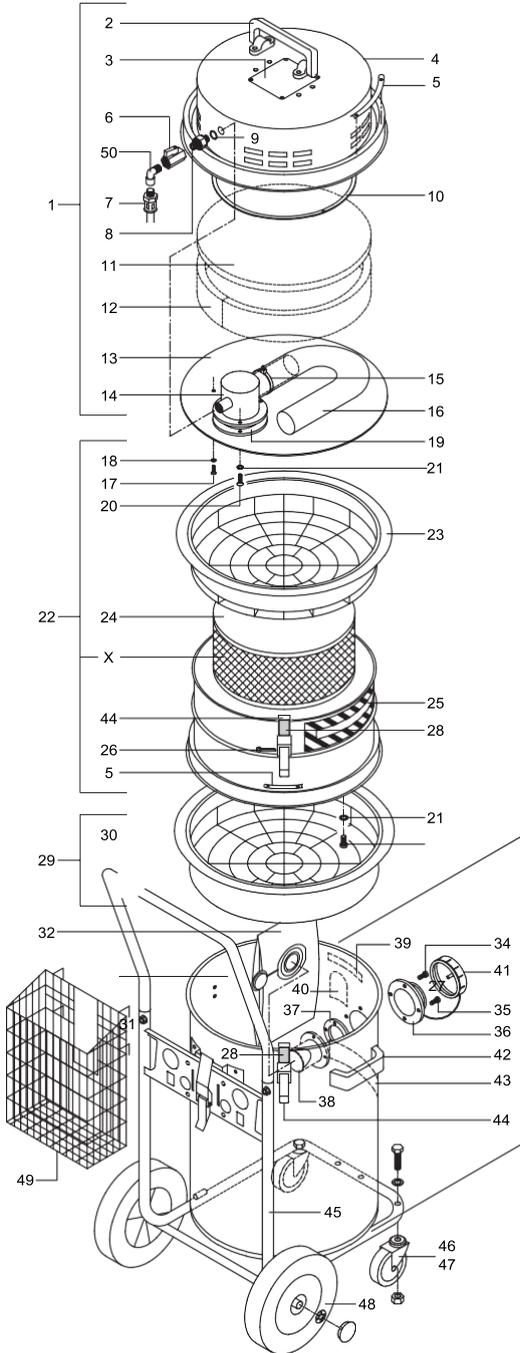
SPARE PARTS – KAV 20H



ITEM	QTY	DESCRIPTION
1	1	KAV20H MOTOR HEAD & AIR SUPPLY HOSE
2	1	A/S FLIP FLOP HANDLE ASSEMBLY
3	1	KAV15-45H RATING PLATE
4	1	KAV20-45 TOP PRESSING
5	2	EARTH STRIP CURVED
6	1	BALL VALVE
7	1	AIR SUPPLY HOSE A/S 5 METRE
8	1	1/4 BSP MALE TO MALE NIPPLE
9	2	SOFT METAL WASHER
10	1	850 x 4 x 6mm FOAM RUBBER SEAL
11	1	FOAM SILENCING KAV20-45 TOP
12	1	FOAM SILENCING KAV15-45 SIDE
13	1	KAV20-45 MOTOR PLATE
14	1	AIR MOTOR
15	1	TYRAP FOR SOUND ATTENUATION HOSE
16	1	500 x 38mm SOUND ATTENUATION HOSE
17	4	M4 x 12 PAN POZI SCREW
18	4	M4 SHAKEPROOF WASHER
19	1	GASKET FOR AIR MOTOR
20	3	M5 x 16 PAN POZI SCREW
21	9	M5 SHAKEPROOF WASHER
22	1	KAV20, 30 & 45H HEPA FILTER ASSEMBLY
23	1	14" A/S SEALING RING & FRAME
24	1	KAV/KEVA20, 30 & 45H HEPA FILTER
25	1	TYPE H WARNING PLATE RED/WHITE
26	2	SPLIT PIN
27	6	M5 x 6 PAN POZI SCREW
28	2	CLIP HERE YELLOW LABEL 23 x 34mm
29	1	14" A/S FILTER ASSEMBLY
30	1	14" A/S FILTER FRAME
31	1	14" A/S FILTER CLOTH
32	1	K4 MICROFIBRE BAG
33	1	KAV20H CAN ASSEMBLY
34	2	M5 x 20 PAN POZI S/STEEL SCREW
35	2	M5 x 16 PAN POZI S/STEEL SCREW
36	1	HOSE ENTRY SPIGOT OUTER A/S
37	1	SPIGOT RETAINER FOR KAV
38	1	KAV S/STEEL DEFLECTOR
39	1	ATEX/UKEX CATEGORY 2 BLACK ON YELLOW LABEL
40	1	ZONE 1/2I WARNING LABEL
41	1	A/S BLANKING CAP & STRAP
42	2	A/S CURVED SURFACE HANDLE WITH SCREWS & WASHERS
43	1	KERSTAR RED/SILVER LABEL
44	4	KV20-110 CLIP FOR METAL HEAD
45	1	KAV/KEVA 20 A/S CHASSIS (NO CASTORS)
46	3	75mm A/S CASTOR UNBRAKED WITH NUT, BOLT & WASHER
47	1	75mm A/S CASTOR BRAKED WITH NUT, BOLT & WASHER

A/S = ANTI-STATIC / CONDUCTIVE

SPARE PARTS – KAV 30H and KAV 45H



ITEM	QTY	DESCRIPTION
1	1	KAV30H MOTOR HEAD & AIR SUPPLY HOSE KAV45H MOTOR HEAD & AIR SUPPLY HOSE
2	1	A/S FLIP FLOP HANDLE ASSEMBLY
3	1	KAV15-45H RATING PLATE
4	1	KAV20-45 TOP PRESSING
5	2	EARTH STRIP CURVED
6	1	BALL VALVE
7	1	AIR SUPPLY HOSE A/S 5 METRE
8	1	1/4" BSP MALE TO MALE NIPPLE
9	2	SOFT METAL WASHER
10	1	850 x 4 x 6mm FOAM RUBBER SEAL
11	1	FOAM SILENCING KAV20-45 TOP
12	1	FOAM SILENCING KAV15-45 SIDE
13	1	KAV20-45 MOTOR PLATE
14	1	AIR MOTOR
15	1	TYRAP FOR SOUND ATTENUATION HOSE
16	1	500 x 38mm SOUND ATTENUATION HOSE M4
17	4	x 12 PAN POZI SCREW
18	4	M4 SHAKEPROOF WASHER
19	1	GASKET FOR AIR MOTOR
20	3	M5 x 16 PAN POZI SCREW
21	9	M5 SHAKEPROOF WASHER
22	1	KAV20, 30 & 45H HEPA FILTER ASSEMBLY
23	1	KAV20, 30 & 45H HEPA FILTER ASSEMBLY WITHOUT THE HEPA FILTER
24	1	14" A/S SEALING RING & FRAME
25	1	KAV/KEVA20, 30 & 45H HEPA FILTER
26	2	SPLIT PIN
27	6	M5 x 6 PAN POZI SCREW
28	2	CLIP HERE 23 x 34mm BLACK ON YELLOW LABEL
29	1	14" A/S FILTER ASSEMBLY
30	1	14" A/S FILTER FRAME
31	1	14" A/S FILTER CLOTH
32	1	K4 MICROFIBRE BAG
33	1	KAV30H CAN ASSEMBLY
33	1	KAV45H CAN ASSEMBLY
34	2	M5 x 20 PAN POZI SCREW S/STEEL
35	2	M5 x 16 PAN POZI SCREW S/STEEL
36	1	HOSE ENTRY SPIGOT OUTER A/S
37	1	SPIGOT RETAINER FOR KAV
38	1	KAV S/STEEL DEFLECTOR
39	1	ATEX/UKEX CATEGORY 2 BLACK ON YELLOW LABEL
40	1	ZONE 1/21 WARNING LABEL
41	1	A/S BLANKING CAP & STRAP
42	2	A/S CURVED SURFACE HANDLE WITH SCREWS & WASHERS
43	1	KERSTAR RED/SILVER LABEL
44	4	KV20-110 CLIP FOR METAL HEAD
45	1	KAV/KEVA30 & 45 CADDY ASSEMBLY S/STEEL (WITH A/S WHEELS & CASTORS)
46	1	75mm A/S CASTOR UNBRAKED WITH NUT, BOLT & WASHER
47	1	75mm A/S CASTOR BRAKED WITH NUT, BOLT & WASHER
48	2	200mm A/S WHEEL WITH LOCK WASHER & YELLOW CAP
49	1	KAV/KEVA (18, 30 & 45) HOSE & ACCESSORY BASKET
50	1	1/4" BSP ELBOW MALE TO FEMALE (KAV45H ONLY)

A/S = ANTI-STATIC / CONDUCTIVE

EU DECLARATION OF CONFORMITY (DoC)

KERSTAR

Manufacturer's name: Filtermist Limited		Machinery covered by this declaration:	
Full address:	Telford 54 Business Park, Nedge Hill, Telford, Shropshire TF3 3AL	Description:	Compressed air powered canister type portable vacuumcleaner & interceptor tank
	+44 (0)1952 290500	Function:	Vacuum to collect dry, wet & dry and type Hdust/debris
		Type:	KAV Air powered vacuum (KAV 15-45) and KAVIT interceptor tanks (KAVIT20-45)
Authorised Representative:	Absolent AB	Model:	KAV 15, KAV 18, KAV 20, KAV 30, KAV 45, KAV 18 W/D, KAV 20 W/D, KAV 30 W/D, KAV 45 W/D, KAV 15 H, KAV 18 H, KAV 20 H, KAV30 H, KAV 45 H, KAVIT 20, KAVIT 30, KAVIT 45, KAVIT 20 H, KAVIT 30 H, KAVIT 45 H
Full address:	Staplaregatan 1 SE-531 40 Lidköping Sweden	Serial No.:	See unit
Filtermist Limited declares under its sole responsibility as the manufacturer that the above object(s)/products are in conformity with the ATEX directive 2014/34/EU covering Equipment and protective systems intended for use in potentially explosive atmospheres.			
The machinery also conforms to the following Directives:	RoHS Directive 2011/65/EU		
The following standards have been used:	EN ISO 80079-36:2016, EN ISO 80079-37:2016; EN ISO 4414:2010		
ATEX Coding:  II 2 D Ex h IIC T50°C Db  II 2 G Ex h IIC T6 Gb		The Kerstar Air Vacuums 'KAV15-45' range are a series of standard can style compressed air powered industrial vacuum cleaners. Compressed air is used to create a vacuum by venturi effect in dry, wet, or Hazardous Type H environments. KAV 15 & 20 models are mounted on chassis with four castors, while 18, 30, 45 are mounted on a steel caddy with two fixed wheels and castors. The vacuum cleaners, and optional accompanying interceptor tanks are constructed from conductive materials to ensure compliance with ATEX directive.	
Notified Body (Where applicable):		4 digit notified body number:	
Element Materials Technology Ltd. Technical File Holder DIF 2812-006 Certificate number EMT17ATEX0050X		2812	
Person authorised to compile the technical file (based in the European Community):	Name:	Absolent AB	
	Address:	Staplaregatan 1 SE-531 40 Lidköping, Sweden	
Specific Conditions of use. The equipment is supplied with a conductive air supply hose. It is the end user's responsibility to ensure a good earth connection is maintained at the compressed air connection point whilst the equipment is in use. 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:	Craig Haynes	
	Position in company:	Product Engineering Team Lead	
	Signature:		
	Place of Declaration:	Filtermist Limited, Telford 54 Business Park, Nedge Hill, Telford, Shropshire, TF3 3AL	
	Date of Declaration:	1 January 2024	

UKCA DECLARATION OF CONFORMITY (DoC)

KERSTAR

Manufacturer's name:	Filtermist Limited	Machinery covered by this declaration:	
Full address:	Telford 54 Business Park, Nedge Hill, Telford, Shropshire TF3 3AL	Description:	Compressed air powered canister type portable vacuum cleaner & interceptor tank
Tel:	+44 (0)1952 290500	Function:	Vacuum to collect dry, wet & dry and type Hdust/debris
		Type:	KAV Air powered vacuum (KAV 15-45) and KAVIT interceptor tanks (KAVIT20-45)
		Model:	KAV 15, KAV 18, KAV 20, KAV 30, KAV 45, KAV 18 W/D, KAV 20 W/D, KAV 30 W/D, KAV 45 W/D, KAV 15 H, KAV 18 H, KAV 20 H, KAV30 H, KAV 45 H, KAVIT 20, KAVIT 30, KAVIT 45, KAVIT 20 H, KAVIT 30 H, KAVIT 45 H
		Serial No.:	See unit

Filtermist Limited declares under its sole responsibility as the manufacturer that the above object(s)/products are in conformity with the "Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016"

The machinery also conforms to the following regulations:	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
The following standards have been used:	BS EN ISO 80079-36:2016, BS EN ISO 80079-37:2016; BS EN ISO 4414:2010

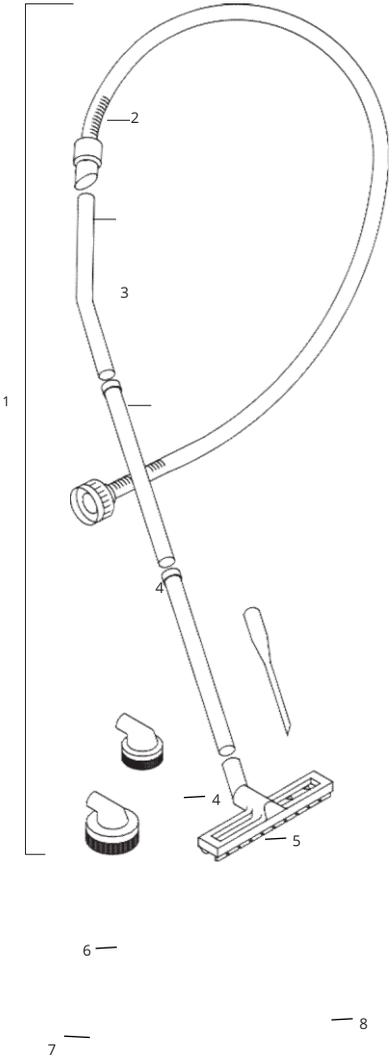
ATEX/UKEX Coding:	The Kerstar Air Vacuums 'KAV15-45' range are a series of standard can style compressed air powered industrial vacuum cleaners. Compressed air is used to create a vacuum by venturi effect in dry, wet, or Hazardous Type H environments. KAV 15 & 20 models are mounted on a chassis with four castors, while 18, 30, 45 are mounted on a steel caddy with two fixed wheels and castors. The vacuum cleaners, and optional accompanying interceptor tanks are constructed from conductive materials to ensure compliance with ATEX directive, and the UK equivalent.
II 2 D Ex h IIIC T50°C Db	
II 2 G Ex h IIC T6 Gb	

Notified Body (Where applicable): Element Materials Technology Ltd. Technical File Holder DIF 0891-011 Certificate number EMT21UKEX0068	4 digit notified body number: 0891
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Specific Conditions of use. The equipment is supplied with a conductive air supply hose. It is the end user's responsibility to ensure a good earth connection is maintained at the compressed air connection point whilst the equipment is in use. 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:	Craig Haynes
	Position in company:	Product Engineering Team Lead
	Signature:	
	Place of Declaration:	Filtermist Limited, Telford 54 Business Park, Nedge Hill, Telford, Shropshire, TF3 3AL
	Date of Declaration:	1 January 2024

TOOL KIT for KAV 15, 18, 20, 30 & 45H



Item	QTY	Part No.	Description
1	1	25-132-30-037	38mm D1 A/S 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	38 x 70mm A/S Dusting Brush
7	1	25-204-20-195	38 x 100mm A/S Dusting Brush
8	1	25-204-20-1330	38 x 375mm A/S Heavy Duty Floor Tool with Brushes

A/S = Anti-static/Conductive



PROTECTING THE ENVIRONMENT

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.

CAUTION: This Type H Vacuum Cleaner is likely to contain or be contaminated with dust which may be hazardous to health. It must be thoroughly decontaminated in accordance with best practice before recycling.



FILTERMIST

Part of Absolent
Air Care Group

Supplied by:

Filtermist Limited
Telford 54 Business Park
Nedge Hill
Telford
Shropshire
TF3 3AL
England

Version: January 2024

www.kerstar.com

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www.filtermist.co.uk

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