

USE AND MAINTENANCE MANUAL

AS40 KS

AS40 KS-M

AS40 KS - H



IMPORTANT!Read the manual before using the appliance

(Translation of original instructions)

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ITALIAN MANUFACTURING INDUSTRY

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1. INTRODUCTION

Before using the appliance carefully read this manual. This manual is an integral part of the machine itself; for this reason it must be preserved with care in a safe place that is accessible to all the users (operators and maintenance personnel) for the whole machine lifetime until demolition.

2. GENERAL WARNINGS

- Plastic bags, polystyrene, staples, etc....must not be left within the reach of children as they are potential sources of danger.
- Before activating the appliance, make sure that the mains voltage corresponds to the one indicated on the data plate.
- DO NOT pull the power cord to remove the plug from the power socket. Instead, remove the plug holding its body with your hand.
- Completely unroll the electric cord during the appliance use.
- It is allowed to use extensions, but only if homologated, dimensioned according to the appliance power and in a good state of conservation.
- Do not use the appliance if the plug or the electric cord are not in good conditions.
- If the power cord of the appliance is damaged, it must be replaced exclusively by a technical assistance centre authorized by the manufacturer.
- Avoid letting the electric cord slide on sharp edges.
- Avoid crushing the electric cord.
- Do not use the appliance with wet or humid hands.
- Do not leave the appliance exposed to atmospheric agents.
- Do not use the appliance if it shows functioning anomalies. Instead, take it to an authorized assistance centre.
- In case of failure, please exclusively refer to an authorized assistance centre always asking for original spare parts.
- Before performing any maintenance or cleaning operation it is mandatory to remove the plug from the power socket.
- Do not wash the appliance with water jets.
- Do not immerse the appliance in water or in other liquids.

- Clean the appliance using a cloth soaked in water; do not use abrasive cleansers, trichloroethylene, solvents.
- When the appliance is out of order it is necessary to render it unusable by cutting the power cord before sending it to the appropriate collection centres.
- The appliance is not intended to be used by people (including children) whose physical, sensorial or mental capacities are reduced, or if they lack experience or knowledge.
- Children must be supervised to make sure that they don't play with the appliance.
- The employer must inform, educate and train the user following what is prescribed by the current laws.
- Before working with this machine, prepare and train by carefully reading this manual. Not authorized and not trained people cannot use this machine.

- It is forbidden to aspirate toxic substances, unless the machine is equipped with the special filters necessary for the specific type of dust which must be expressly requested by you scrupulously observing the current national standards.

- Before using the appliance, the operator must be informed and trained to use the machine and about the substances for which the appliance will be used, including the removal and disposal of aspirated material.
- For maintenance, the machine must be disassembled, cleaned and repaired, as far as possible, without causing risks for the maintenance personnel and for others. The precautions include decontamination before dismantling, the correct ventilation in the rooms in case of the machine disassembling, the maintenance zone cleaning and an appropriate protection of the personnel.
- The manufacturer, or an educated person, should inspect the appliance at least once a year checking if, for example, the filtering system is intact, if the air flux is correct and if the machine control system works correctly.
- When performing maintenance or repairs, all contaminated parts that cannot be adequately cleaned must be eliminated; these parts must be placed in impermeable bags according to current regulations on that type of waste
- For Class H: The manufacturer, or instructed personnel, must inspect the equipment at least once a year checking, for example, whether the filtration system is intact, the air flow correct and the machine control system operating correctly. Additionally, the filtration system on class H machines must be tested at least once a year following the instructions in standard 60335-2-69 chap.22.AA.201.2. If the test fails, the class H filter must be replaced and retested.
- For the M and H Class, the machine outside will have to be decontaminated using an aspirator, a cloth or be treated with a sealant before taking the machine outside the danger area. All the machines will

be considered decontaminated once they have exited from the danger zones and once every action necessary to avoid that the dust is dispersed has been performed.

- For class M and H, the machine must be thoroughly cleaned before leaving the contaminated zone and transported.
- It is necessary to guarantee an appropriate exchange of air in the room where the machine is used. Please refer to the national standards.
- ATTENTION: this machine is intended for dust aspiration only

3. APPLIANCE DEMOLITION

For environmental safeguard, proceed according to the local current. When the appliance is neither usable nor repairable, proceed with the components differentiated disposal.

The electrical equipment cannot be disposed as an urban waste, but it is necessary to respect the separated collection introduced by the special rule for disposal of waste derived from electrical (dlg n 151 of the 25/7/05 - 2002/96/CE - 2003/108/CE).

Electrical equipment is marked by a symbol bearing a crossed out wheeled bin. This symbol indicates that the equipment has been placed on the market after 13 August 2005 and that it must be separately collected.



An inappropriate or abusive disposal of the equipment or a misuse of it, in consideration of the contained substances and materials could cause damages to persons and to the environment. The disposal of electrical waste which doesn't comply with the current standards will involve the application of administrative and criminal sanctions.

4. REFERENCE REGULATIONS

The appliance has been built in conformity with the current Machinery Directive and in conformity with the standards indicated in the "EC" declaration of conformity.

5. UNPACKING

Once the packaging has been removed following the indications in the instructions on the packaging itself, check the integrity of the appliance and of all of its supplied. If you encounter clear damages please contact the dealer or an authorized assistance centre.

6. DESCRIPTION OF THE VACUUM

INTRODUCTION

It is important that the vacuum is conducted by responsible persons which maintain a correct functioning, maintenance and repair use. If functioning problems arise, please contact the dealer. The buyer is not authorized to modify or tamper the vacuum, failing which the invalidation of the warranty and the exemption from every liability on possible damages to things or persons by the manufacturer.

INTENDED USE AND MISUSE

The vacuum AS40 KS has been designed to vacuum dust, solid bodies of various sizes and processing residues constituted by a mix of dust. It is prohibited to vacuum materials with the risk of explosions or singularly inert materials but which, once vacuumed and mixed in the collection container, could cause dangerous chemical reactions. It is absolutely prohibited to use the vacuum in explosive atmospheres or outside the standard temperature, pressure or humidity values. Uses different from those listed above are not allowed. Any use different from the one for which the vacuum has been built represents an anomalous condition which could harm the appliance and constitute a serious hazard for the user.

! ATTENTION, DANGER

The manufacturer cannot be considered liable for possible damages caused by an improper or incorrect use. Any other user relieves the manufacturer from any responsibility for damages to persons and/or things and voids any warranty condition.

Important!

Always use dedicated filters depending on the type of dusts or debris to be vacuumed.

NOISE LEVEL

Noise measurements have been performed in accordance with what is established by the **Machinery Directive 2006/42/EC**. The phonometric tests performed on these specific vacuum models, at a distance of 1 meter and from an height of 1,60 meters, in correspondence with the most noisy position, with respect to the four sides of the machines, highlight an acoustic pressure (LpA) not higher than:

74 dB (A)

The vibrations to the hand-arm system transmitted by the machine are lower than 2,5 m/s².

Important!

Pursuant to the Legislative Decree 81/08, the workers exposed to sound pressure levels higher than 85 dB (A) must be protected by specific individual protection devices.

For this reason, it is necessary to, if the processing require the use in those conditions, provide workers with endorsed individual acoustic protections and to inform them about the risks deriving from exposure to noise.

OPENING THE PACKAGING

The vacuum is fixed to a wooden pallet through metal brackets and wood screws and it's covered by strapped cardboard. At the packaging opening it is necessary to check that all the parts are intact and that they haven't suffered damages during transport. If the packaging shows damages immediately complain against the carrier and record that the material is withdrawn subject to control.

PARTS OF THE VACUUM



Figure 1

CONTROLS AND INDICATORS

- A- 1 or 2 speeds switches
- B- Manometer
- C- Filter shaker lever
- D- Handle for moving the machine
- E- Stem release large handle
- F- Fixed rear wheel
- G- Pivoting front wheel
- H- Vacuum vent
- I- Cloth filter release
- J- Head release
- K- Dust container

Controls and indicators (reference to figure 2)

- A- Switches formotors 1-2-3 switching on (CL.L)
Switches formotors 2-3 switching on (CL.M and H)

Position I: machine on
Position 0: machine off

- B- Manometer: indicates the filters clogging.
Hand in the red part: turn the machine off and shake the filter through the lever

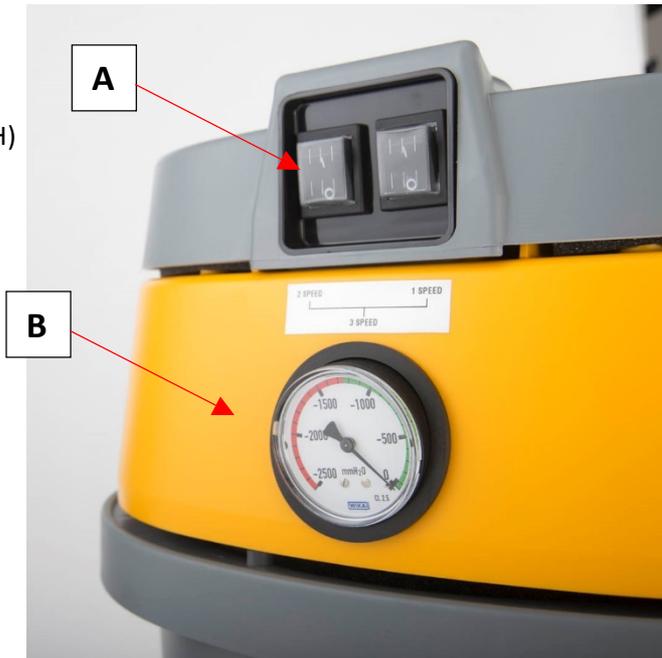


Figure 2

- C- Filter shaker lever: to use for the cloth filter cleaning



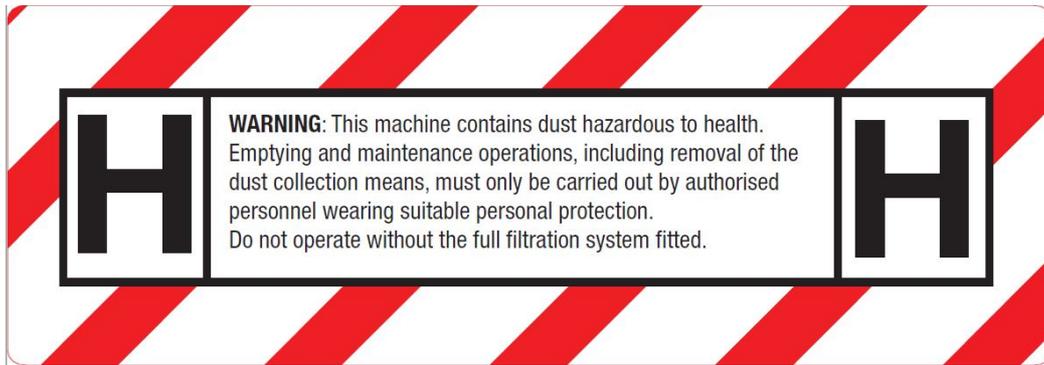
Figure 3

7. TECHNICAL DATA – DIMENSIONS - LABELS

<i>Description</i>	<i>Unit of measurement</i>	<i>Value</i>
Power	<i>kW</i>	3
Voltage	<i>Volt</i>	230
Frequency	<i>Hz</i>	50/60
Depression	<i>hPa</i>	205
Air flow	<i>m³/h</i>	500
Noise level	<i>dB (A)</i>	67
Type of filter		Polyester
Filter surface	<i>cm²</i>	20.000
Capacity	<i>lt</i>	60
Suction	<i>∅</i>	50
Dimensions	<i>mm</i>	890x680x144 5



M CLASS - Adhesive present on a machine suitable for vacuuming dangerous Medium Risk dusts and to separatedust with an exposure limit value depending on the occupied volume higher than 0,1mg/m³.



CLASS H - Sticker found on the machine suited to suction off hazardous dust with High Risk to separate dust with an exposure limit value according to occupied volume greater than 0.01 mg/m³.

8. PUTTING INTO SERVICE:

- Make sure that the power plug is correctly inserted in the power socket.
- Make sure that the flexible hose is regularly inserted and blocked in the appropriate suctionvent.
- Make sure that the power cord and the possible used extension are intact, in a perfect state of conservation.
- Hold the flexible hose extremity with the chosen vacuum accessory.
- Press "I" to start vacuuming.
- Press "O" to stop vacuuming.
- When the pressure gauge indicator is in the red zone, check the vacuum filters and tube.

! ATTENTION, DANGER

In the case of M and H Class vacuums, only use hoses with a diameter indicated in the "Technical Data" chart.

! ATTENTION, DANGER

During functioning, always check that the manometer hand remains in the green sector. If the hand moves in the red zone it means that it's necessary to clean or replace the filters.

9. SHAKING THE PRIMARY FILTER

! ATTENTION, DANGER

Turn off the machine before shaking the filter. Do not shake the filter when the machine is on.

Use the lever "C" to shake the filter Figure 2 by moving it left and right a few times.

Wait before restarting in order to allow dust to deposit. If the hand remains in the red zone even after shaking the filter, replace the filtering systems.

DUSTS CONTAINER EMPTYING

! ATTENTION, DANGER

Before performing these operations, turn off the machine and remove the plug from the power socket.

! ATTENTION, DANGER

These operations can be performed, in accordance with the current laws, only by specialized and trained personnel, while wearing the necessary safety clothing.

In any case, always refer to the current national standards and laws.

- Release the dusts container "K" Figure 1, remove and empty it.
- Check the sealing gasket integrity and correct positioning
- Reposition and hang it back up.

10. REPLACING THE PRIMARY FILTER AND THE CARTRIDGE FILTER

! ATTENTION, DANGER

During these operations, pay attention not to raise dust. Use clothing and a mask in accordance with the national current laws.

Before processing these operations, turn off the machine and remove the plug from the power socket.

- Raise the vacuum leverage "E" placed below to release and extract the container.



Figure 4



Figure 5

- Release the locking levers "I" and "J" Figure 1.
- Carefully lift the head and place it in a plane zone.

Primary filter replacement

- Raise the spacer "A" Figure 4 containing the cloth filter.
- Unscrew the nut "B" on the bottom of the filter
- Replace the cloth filter (cod. 6895511) and re-screw the nut

Replacing the M Class cartridge filter

- Release the filter "C" Figure 6 by pulling it downwards;
- Replace and press the new filter (cod. **2512076**)

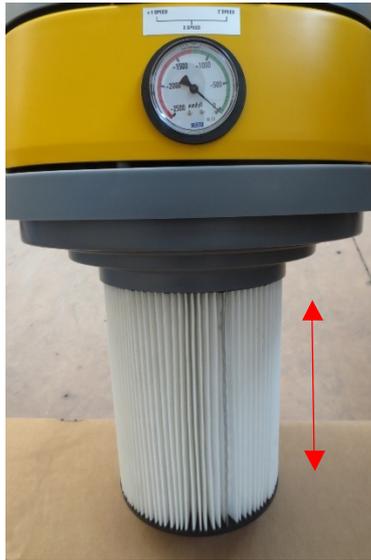


Figure 6

Class H cartridge filter solution

- Use a tool suited to unscrew the M8 nut
- Unscrew the M8 nut
- Unhook the H filter (code 2512078)
- Enclose the used filter in the specific containers
- Replace the filter making sure the gasket is correctly positioned;
- Replace the gasket and nut being sure to tighten the nut.



Attention!

The debris on the filter and the filter itself must be disposed following the standards of the country where the vacuum is being used.

The container blocking operation must be performed by one person which must lower the leverage using both hands.

Attention!

Hands crushing danger!

11. TROUBLESHOOTING

<i>Inconvenience</i>	<i>Cause</i>	<i>Solution</i>
<i>The vacuum doesn't start</i>	Lack of power	Check the presence of voltage in the power socket. Check the plug and the power cord integrity. Rearm the magneto-thermal switch
	Magneto-thermal switch triggered	
<i>Dusts leakage</i>	Suction hose / exhaust is punctured	Replace the hose
	Filter not suitable for the type of suction	Assemble the filter suitable for the type of material to vacuum
<i>The vacuum doesn't vacuum as it should</i>	Hose punctured or clogged	Check the hose conditions and replace it if necessary.
	The container is full	Empty the container
	The filter is clogged	Clean the filter or replace it if necessary
	The gaskets are worn down	Check the gaskets and replace them if necessary
	Air loss	Check for possible air losses from the closing hooks, from the tightening screws, from the container and from the filter chamber
<i>Motors are excessively noisy</i>	<i>Contact Ghibli&Wirbel technical assistance</i>	

12. SPARE PARTS

<i>Code</i>	<i>Description</i>
6895511	Cloth filter group
2512076	M Class Cartridge Filter
6010711	Hand Grinder D50
2512078	Class H cartridge filter

