



« VACROM 25 » vacuum cleaner
Réf. 93975

User guide



Electrical tool vacuum unit

Product: Suction unit for wet and dry substances

Typ Réf. 93975 VACROM 25

Unit construction type
Complies with the following relevant provisions

EC Machinery Directive 2006/42/EU
EMC Directive 2004/108/EC

Applicable harmonised standards

EN 12100-1, EN-12100-2,
EN 60335-1, EN 60335-2-69,
EN 55014-1, EN 55014-2,
EN 61000-3-2

Applicable national standards and technical specifications

DIN EN 60335-1,
DIN EN 60335-2-69

Vacuum cleaners from classes M and H have been successfully tested in accordance with

IFA Test Certificate

- GS-BIA-MO2 (07/02),
- DIN EN 60335-2-69 (including) Appendix AA,
- DIN 60335-2-69/A1 (11/05).



IP24

We declare in our own sole responsibility that this product complies with the EU directives and definitive standards: machinery and amending Directive 2006/42/EG with amendments, electromagnetic compatibility directive 2004/108/EG with amendments.



When unpacking, check that the unit is complete and shows no signs of transport damage.

Read all the information carefully. They contain important advice about how to use the unit, safety, maintenance and care. Please keep these operating instructions somewhere safe and pass on to any subsequent owners. We reserve the right to make design and equipment changes.

1. Safety Advice.

- The vacuum device is designed for industrial use. Ideal in combination with an electric tool, on building sites, in workshops, etc.

● Warning!

- vacuum devices are **not suitable** for aspiration/clearing of toxic dusts.
- Class **M** vacuum devices are suitable for aspiration/clearing of dry, non-combustible dusts, non-combustible liquids, wood dusts and hazardous dusts with workplace limit values of $\geq 0.1 \text{ mg/m}^3$.
- Class **H** vacuum devices are suitable for aspiration/clearing of dry, non-combustible dusts, carcinogenic and pathogenic particles as well as non-combustible liquids, wood dusts and toxic dusts with workplace limit values of $< 0.1 \text{ mg/m}^3$.

● Warning!

- Persons (including children) who are, due to their physical, sensory or intellectual abilities or lack of experience or knowledge, unable to safely use the vacuum device should not use it without supervision or instruction by a responsible person.
- Particular caution is advised with children, elderly or infirm persons.
- Do not point nozzle, tube or hose at people or animals.

● Danger!

- Do not operate the vacuum device where there is danger of explosions.
- Keep away the vacuum device from inflammable gases and substances.

● Danger!

- Do not aspirate any combustible or explosive solvents, materials soaked in solvents, explosive dusts, liquids such as petrol, oil, alcohol, diluents or materials hotter than 60°C (140°F).
- Otherwise there will be danger of fire and explosions!

● Danger!

- Use the socket of the vacuum device only for the purposes defined in the instruction manual.

- In case of any inappropriate usage, improper operation or repair, the producer shall be exempt from liability.
 - Do not use any damaged extension lines.
 - If the connector line of the vacuum device has been damaged, it must be replaced with a special connector line which is available from the producer or their service.
 - Electric brushes: Do not allow the rotating brushes to get into contact with the power connection line.
 - The voltage on the type sign must correspond to the grid voltage.
 - After every use and before any maintenance, switch off the vacuum device and pull the power plug.
 - Pull on the plug only, not on the line.
 - Never plug or pull the power plug with wet hands.
 - The socket must be secured via a household fuse with a suitable current rating.
 - Never open the vacuum device outdoors in rain or storm.
- **Danger!**
- Danger of suffocation
 - Keep packaging material such as plastic bags away from children
 - Never stand or sit upon the vacuum device.
 - Particular caution is advised when ascending stairs. Pay attention to standing safely.
 - Do not pull the suction hose and connection line over sharp edges, kink it or shut it.
 - Always lay the suction hose and connection line so that nobody may trip over them.
 - In case of any leakage of foam or liquid, immediately switch off the vacuum device.
 - Always keep dry the inside of the lid.
 - Do not start the vacuum device including its accessories if:
 - the vacuum device shows detectable damage (fissures/cracks);
 - the power connection line is defective or shows fissuring or ageing; or
 - any invisible defect is suspected (after a fall).
 - Do not allow the rotating brushes to get into contact with the power connection line.
- **Warning!**
- Use only the brushes supplied with the vacuum device or defined in the instruction manual. Use of any other brushes may pose a safety hazard.
 - Clean and disinfect the vacuum device immediately after use to prevent microbial contamination due to long-term failure to clean it, especially when using the device in food-processing.
 - Do not use any steam jets or high-pressure cleaners for cleaning.
 - Acids, acetone and solvents may corrode parts of the vacuum device.
 - Do not leave the device without supervision. In case of longer interruptions of work, pull the power plug.

● **Warning!**

- Have repairs been made only by experts, e. g. the producer's service. Use original spare parts only.
- Improperly repaired devices pose a hazard for the user.

2. Before use.

When unpacking, check that the unit is complete and shows no signs of transport damage.

Read all the information carefully. They contain important advice about how to use the unit, safety, maintenance and care. Please keep these operating instructions somewhere safe and pass on to any subsequent owners. We reserve the right to make design and equipment changes.

3. Use original accessories.

Paper filter bag FB 25

for 25 L-tank BGIA Class M approved

5 pcs. = 1 set

Paper filter bag FB 50

for 50 L-tank BGIA Class M approved

5 pcs. = 1 set

Filter cassettes FK 4300

Cellulose material, BGIA Class M approved

2 pcs. = 1 set

Filter cassettes FKP 4300

Polyester material, BGIA Class M approved

2 pcs.=1 set

Filter cassettes FKP 4300 HEPA (H14)

Three-ply filter cassette, BGIA Class H approved

2 pcs. = 1 set

Plastic emptying bag

for ISC-/IS-ARM-1250/1225, ISC-/IS-ARM-1250 E/1225 E, ISC-/IS-ARH-1250/1225

BGIA class M and H permitted,

5 pcs. = 1 set

ASBESTOS plastic emptying bag

for ISC-/IS-ARH-1250/1225 ASBESTOS

BGIA class H + Asbestos permitted

5 pcs. = 1 set

For more accessories please refer to our accessories list or contact us.

4. Fields of application.

For wet and drying suctioning.

Dust class M vacuum cleaners are suited to suctioning up/off dry non-flammable dust non-flammable liquids, wood dust and hazardous dust with AGW's $\geq 0.1 \text{ mg/m}^3$.

Dust class H vacuum cleaner are suited to suctioning up/off dry non-flammable dust, carcinogenic and pathogenic particles, non-flammable liquids, wood dust and dusts hazardous to health with AGW's $< 0.1 \text{ mg/m}^3$.

5. Commissioning.

Switch the unit ON/OFF with the switch ②a in the top section ① (or switch to automatic mode – see Section 5.1.).

5.1. Operating field

Depending on the unit configuration, the following functions and settings are available:

0 = Suction unit > off <

1 = Suction unit > on <

A = Ready mode for ON/OFF automatic mode.

(Suction unit is switched ON/OFF by the electrical tool)

R = Filter cleaning function; in this switch setting the vibrator is activated for approx. 10 sec. and then switches off again automatically.

RA = Ready mode like "A" plus automatic filter cleaning.

The power socket ②b is available for connecting an electrical tool.

Caution! The electrical tool must be switched off during connection. The power socket is permanently supplied with voltage when the plug is in the mains socket regardless of the switch setting. In switch setting "0" the power socket could still be used as an extension cable (e.g. for lights).

Connected load: Suction unit and connected unit max. 16 A.
The suction output can be adjusted steplessly using the rotating speed setter ②d.

Pre-selection switch ②d for minimum volume signal (horn and light) for suction units of the class "M" and "H".

In mode "A" or "RA", the following settings should be made depending on the diameter of the hose:

Hose diameter	Switch setting
35 mm Ø	70 m ³ /h
27 mm Ø	40 m ³ /h
19 mm Ø	20 m ³ /h

The speed is not regulated.

The suction unit always runs at max. speed

The suction openings of the electrical tools are not standardised. There is an adapter available (rubber nozzle or rubber muff) which can be shortened and adjusted to the respective electrical tool.

6. Operation [wet and dry suctioning].

When the handle pipe is used, the secondary air valve can be used to adjust the suction output.

6.1. Dry suctioning.

Only suction with a dry filter, unit and accessories so that the dust does not adhere and harden. We recommend using a paper filter bag if soot, cement, plaster, flour or similar substances are suctioned.

Always use the paper filter bag in combination with the filter cartridges.

6.2. Wet suctioning.

Suction without a paper filter bag. The filter cassettes are suitable for wet suctioning.

The installed sensor switches the motor off when the tank is full. Empty the unit as outlined in Section 6.4. If the unit is not switched off, the restarting safeguard remains effective. The unit will only be ready for operation again after it has been switched off and switched on again.

- Before emptying, first remove the suction hose from the liquid.
- Due to the high suction output and the streamlined shape of the tank, a little water may escape from the hose after the unit has been switched off.
- For the subsequent dry suction phase, use a dry filter. In case of frequent changes between dry and wet suctioning, we recommend using a second filter set, preferably polyester filter cassettes.

6.3. Cleaning the filter.

The suction unit is fitted with an electro-magnetic filter cleaning device which can shake off any dust adhered to the folded filter cassettes.

6.3.1. Manual cleaning.

The vibration function (switch setting R or RA /switch ②a) should be activated at the latest when the volume flow display ②c (warning lamp) lights up or when the warning signal sounds or when the suction output sinks.

6.3.2. Automatic cleaning (automatic vibration).

Filter cleaning is performed (switch setting RA/switch ②a) automatically during the next working break when the minimum volume flow level is reached.

6.4. Emptying the tank.

Only permitted with dusts with AGW's > 1mg/m³.

Switch off ②a, disconnect plug ⑥, open snap locks ⑨. Take top section ① and suction hose from the tank ①. Empty the tank.

6.5. Paper filter bag.

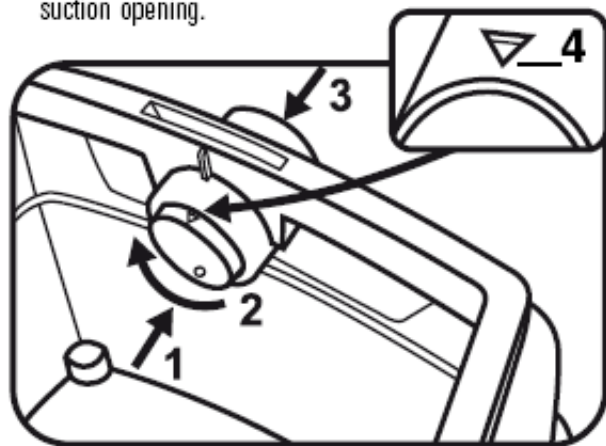
To insert or remove the filter bag/emptying bag, remove the top section ①).

To do this, open the side locks ⑨.

Only use the paper filter bag for dry suctioning.

6.5.1. Inserting the paper filter bag.

- **25 and 50 litre tank**
Push the flange over the suction opening
- **50 L special tank on ISC-/IS ARM-1250, ISC-/IS ARM-1250 E**
- **ISC-/IS ARH-1250/1225** may only be operated with paper filter bags if dust is suctioned up with exposure limits (AGW's) > 0.1 mg/m³.
Turn the knob in the suction opening with the marking ▲ ④ to the top. Push the flange over the suction opening.



Operating the slide valve:

Push the slide valve from inside to the outside ①, turn by 180° ② (see marking ④) and press from outside through the suction pipes to the inside again ③.

6.5.2. Exchanging the paper filter bag.

Carefully pull the flange from the suction connections and close the flange.

Turn on the motor before putting down to ensure that any falling suspended dust can be suctioned (refer to the graph page 169).

Dispose of the vacuumed material as per the statutory regulations.

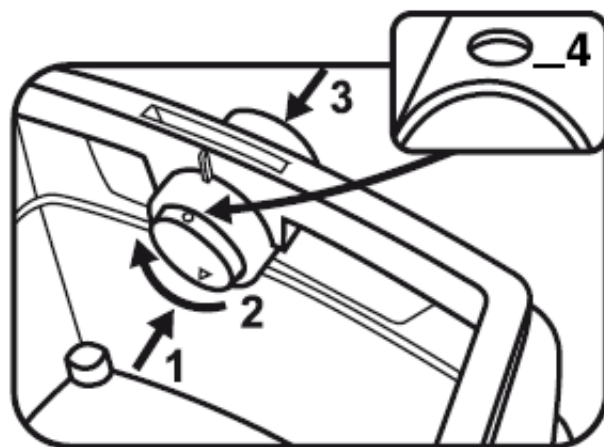
6.5.3. Plastic emptying bag.

Only the M and H vacuum cleaners with the special tanks and rotary valve in the suction opening (models IS-/ISC-ARM 1225/1250E, ISC-/IS-ARH 1225/1250 and ISC-/IS-ARH 1225/1250 ASBESTOS) are suited for using plastic emptying bags.

Turn the rotary valve with the round label upwards in the suction opening ● ④.

Operating the slide valve:

Push the slide valve from inside to the outside ①, turn by 180° ② (see marking ④) and press from outside through the suction pipes to the inside again ③.



Push the flange over the suction pipes, place the opening of the bag over the edge of the tank.

6.5.4. Exchanging the plastic emptying bag.

Detach the suction hose, close the suction opening ⑧ with a plug (Pos. ⑧a).

Remove the top section. Switch on the motor before placing on the ground so that any falling dust can also be suctioned (refer to the graph page 169). Close the emptying bag with a closing band.

Pull the flange carefully in front of the suction opening and close tight. Dispose of the contents in accordance with the statutory provisions.

7. Cleaning.

Clean the tank and accessories with water. Wipe the top section ① with a damp cloth.

Allow the tank and the accessories to dry.

8. Servicing.

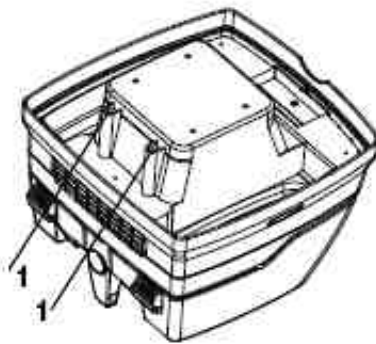
If the suction output of the unit decreases and is not improved after the filter cassettes ⑫ are cleaned, (assuming the tank ⑦ is empty and the paper filter bag ⑭ has been exchanged), then it is time to exchange the filter cassettes ⑫.

Apply the vibration function to the filter cassettes ⑫ again before exchanging them. Use a coin or another similar object to turn the catch ⑤ on the locking bar ④ 90° in an anti-clockwise direction and then press the locking bar ④ backwards. Fold up the hood and lift out the filter cassettes ⑫. Immediately seal the removed filter cassettes in a dust-proof plastic bag and dispose of as per the statutory regulations. Insert new filter cassettes. Fold down the hood again and exert a little pressure to click it back into position.



If the **motor protection filter** ⑬ is soiled, this is an indication that the filter cassettes are defective.

Please exchange both filter cassettes. Wash out the motor protection filter under running water, dry and re-insert.



Note!

Regularly clean the water level sensors ① and examine them for signs of damage

9. Troubleshooting.

Functional problems are not always the result of unit defects!

Malfunction:

Suction output impaired.

Possible cause/ remedy:

Soiled filter → clean.
Paper filter full → exchange.
Tank is full → empty.
Nozzle, pipe or hose is blocked → clean.

Unit will not start.

Plug in the power socket?
No mains power?
Power cable OK?
Unit hood closed properly?
Has the water sensor switched off?

Plastic emptying bag is sucked onto the filter

Set the knob to pos. ●
See point 6.5.3

If the paper filter bag is inserted dust in the tank with M or H vacuum cleaners

Set the knob to pos. ▲
See point 6.5.1

Do not intervene further, contact a customer service workshop.

10. Accessories.

Storage

Fix the suction pipes by inserting them into the special recesses on the reverse of the tank.

11. Technical data.

		ISC 1200	ISC 1400	ISC M+H	ISC Asbestos
voltage	Volt (V) -	220-240	220-240	220-240	220-240
nominal output	Watt	1200	1400	1200	1000
mx output	Watt	1400	1600	1400	1000
frequency	Hertz (Hz)	50/60	50/60	50/60	50/60
air flow*	m³/h/MG	220	230	—	—
low pressure*	hPa/MG	248	259	—	—
air flow**	m³/h/SE	—	—	140	140
low pressure**	hPa/SE	—	—	225	225
sound pressure	dB (A)	69,5	70,0	69,5	69,5

		IS 1200	IS 1400	IS M+H	IS Asbestos
voltage	Volt (V) -	220-240	220-240	220-240	220-240
nominal output	Watt	1200	1400	1200	1000
mx output	Watt	1400	1600	1400	1000
frequency	Hertz (Hz)	50/60	50/60	50/60	50/60
air flow*	m³/h/MG	220	230	—	—
low pressure*	hPa/MG	248	259	—	—
air flow**	m³/h/SE	—	—	140	140
low pressure**	hPa/SE	—	—	225	225
sound pressure	dB (A)	69,5	70,0	69,5	69,5

*on the blower **on the hose

Connecting cable for appliances with socket: H05VV F 3x1.5/
H07RN-F 3G 1,5

Tests and approvals for M and H suction units.

Electro-technical tests need to be performed in accordance with the accident prevention guidelines (BGV A3) and in accordance with DIN VDE 0701 Part 1 and Part 3. These tests need to be performed in regular intervals in accordance with DIN VDE 0702 and after maintenance work or modifications.

At least once a year, a technical dust inspection needs to be performed by the manufacturer or a qualified person, e.g. to check for damage to the filter, leaks, function of the control equipment.

The suction units are passed successful tested in accordance with IEC/EN 60335-2-69.



Old appliances contain valuable materials that can be recycled. Do not dispose of such appliances with the normal domestic waste but rather by way of appropriate collecting points..