ATMØVAC™



Chamber Vacuum Sealer

DIABLO 12D27G

User Manual

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1. Introduction

Thank you for purchasing the DIABLO 12D27G Vacuum Packaging Unit. With its strong performance and high quality, it can bring you a lot of convenience into your life. To make it provide an excellent working function and make sure it works smoothly, please read this manual carefully first before operation.

1.1. Notice

- Before using this machine, please read this manual carefully and fully understand it.
- Please make sure the operator or supervisor of this product knows well of the essential points of this manual.
- After finishing the reading, please put it on some places where users can get it conveniently for easy checking.
- If any questions, please contact the supplier in time.

1.2. Responsibilities

- This manual is well edited by supplier. If any serious consequence happens that was caused by wrong operation by user who was not correctly referring to this manual, supplier will not take any responsibility for that.
- Regarding of any damage or problems on machine that were caused by not applied with correct-provided spare parts, supplier will refuse to take any responsibility for that.
- Supplier reserves the rights of revising the parameter or spare parts of this product without notice.

2. Safety Notice

2.1. Key Words

This product manufactured in accordance with the latest technical and safety standards. If any wrong operation, it probably causes danger or harm to users or other people nearby. Please take notice for the explanations of the key words 'DANGER', 'WARNING', 'CAUTION' as below. Any error in handling may result in danger or harm to users or persons in the vicinity. Please note the explanations of the key words 'DANGER', 'WARNING', 'CAUTION' as below.



DANGER!

Ignoring this safety notice may cause huge serious harm or even fatal harm to life.



WARNING!

Ignoring this safety notice may cause huge serious harm or even fatal harm to life.



CAUTION!

Ignoring this safety notice may cause huge serious harm to life or property loss.

2.2. Working Conditions

This product is designed to be used indoor under normal temperature. If the condition is very severe (for example, under the caustic atmosphere; temperature is higher than 40°C or lower than 5°), please remember to contact the supplier about this.

During the operation, the oil in pump will be separated to the maximum extent, but it will not be separated completely.



Be Cautious! It is harmful!

- There will be residual oil in the air from the pump.
- Long-term inhalation of such air is harmful to health.
- There should be good ventilation condition in the room using this machine.

If the machine is used in the food industry, please select some special oil that is food safe.

2.3. Transportation and Stores

Wooden case packaging

- If a lifting device is used during machine installation, please pay attention to the position of the machine's center of gravity.
- Please ensure that the rope can be reliably and safely attached to the machine.
- Hang the spreader on a hanger fitted with a safety lock.
- Please use the crane for lifting.



Be cautious!
Please do not walk by, stay, or work under the lift-up object.

Before moving or transiting the machine, please remove all oil from the pump.



Be cautious! Risk of machine damage.

- Tipping over a machine with an oil-filled pump causes oil to enter the pump chamber.
- When starting the pump, if there is too much oil in the chamber, the pump will be damaged.
- When the pump is full of oil, please do not operate it.

Short-term storage of the machine

- Switch off the machine, disconnect the power plug and store the power cord.
- Close the lid and secure it with the lid lock.
- If possible, cover it with a plastic bag to keep out the dust.
- Store the machine in a dry, dust-free, and shock-proof environment.

Long-term storage of the machine

The interior of the machine has already undergone anti-corrosion treatment at the factory, so there's no need to use protective oil again. However, if storage conditions are severe (e.g., in a caustic atmosphere, very high temperatures or frequent changes), it is necessary to use oil again to keep the machine in good condition.

- Switch off the machine, disconnect the power plug and store the power cord.
- Close the lid and secure it with the lid lock.

- Cover it with a plastic bag to keep out the dust.
- If possible, keep the original packaging.
- When moving or in transit, ensure that all oil in the pump is removed.
- Please store the machine in a dry, dust-free, and shock-proof environment.

2.4. Installation



Be cautious! Risk of machine damage.

- Tipping over a machine with an oil-filled pump causes oil to enter the pump chamber.
- When starting the pump, if there is too much oil in the chamber, the pump will be damaged.
- When the pump is full of oil, please do not operate it.

Please ensure that the installation environment complies with safety regulations.

- No flammable or explosive gases in the environment.
- Suitable temperature range: 5-40°C. If installation is required in an environment outside of this range, please contact the supplier.
- Ambient pressure : standard atmospheric pressure.
- Ensure that power supply complies with the relevant standards.
- Keep the machine in an upright position when moving or transporting it, as tilting the machine will damage the pump.
- Keep the machine horizontal when in use.
  - Keep a distance of 10cm between the unit and walls or other objects for ventilation.
  - Keep it away from heat sources or steam cooking devices (such as pots, dishwashers, or stoves).
- Make sure there are sufficient reserves to drain the oil and replace easily damaged parts.

CAUTION: DO NOT IMMERSE IN WATER.

To ensure continuous protection against the risk of electric shock, connect the device only to connected grounded outlets only.

2.5. Oil filtration and draining



Be cautious! Risk of machine damage.

There is no oil in a new machine. The pump will be damaged if operated without oil.

Before starting the machine, make sure the pump is full of oil. Filling the pump with oil from other positions may damage the pump. Be sure to fill the pump with oil through the oil port.

Inhaling gas (which may contain residual oil) that escapes from the pump during operation can have long-term adverse effects on human health.

Ensure that the machine is operated under good ventilation conditions.



Be cautious! Risk of machine damage.

When the pump is running, the inside of the pump chamber is filled with high temperature, high-pressure oil mist. If the oil filler hole is open, it can be damaged by the hot oil mist. Only when the pump stops running can the oil plug be opened. When the pump is running, the oil plug must be tightly screwed on.

In the following cases, the pump must be filled with vacuum pump oil:

- When the machine is used for the first time, the pump must be filled with oil. After using the machine for the first time for 25 hours or 3000 times, the pump must be filled with oil.
- If the oil level in the pump falls below the minimum level, the oil should be topped up.
- If the machine's performance deteriorates, e.g., if the pumping effect de is unsatisfactory, the oil should be replaced.
- When the machine has been in use for 60 hours, six months or 7000 times, it should be topped up with oil.
- If the vacuum pump oil is visibly cloudy, the oil should be replaced.

Note: use only the vacuum pump oil supplied, an ISO 46# synthetic or semi-synthetic oil.

Oil filing

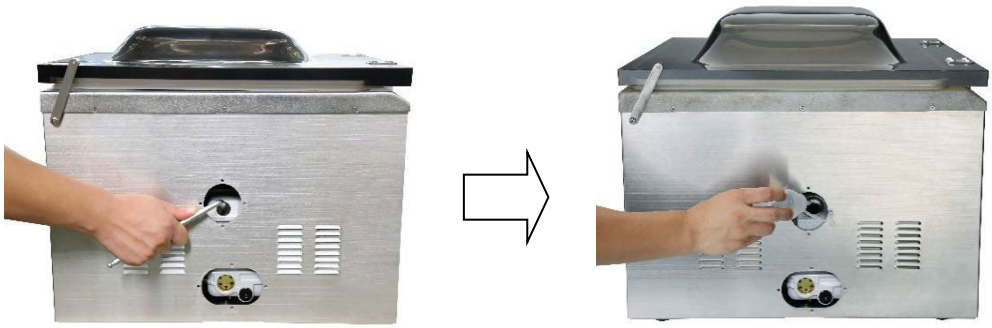
- Use the screwdriver to open oil window n°1.
- Use the wrench to open the oil filler plug.

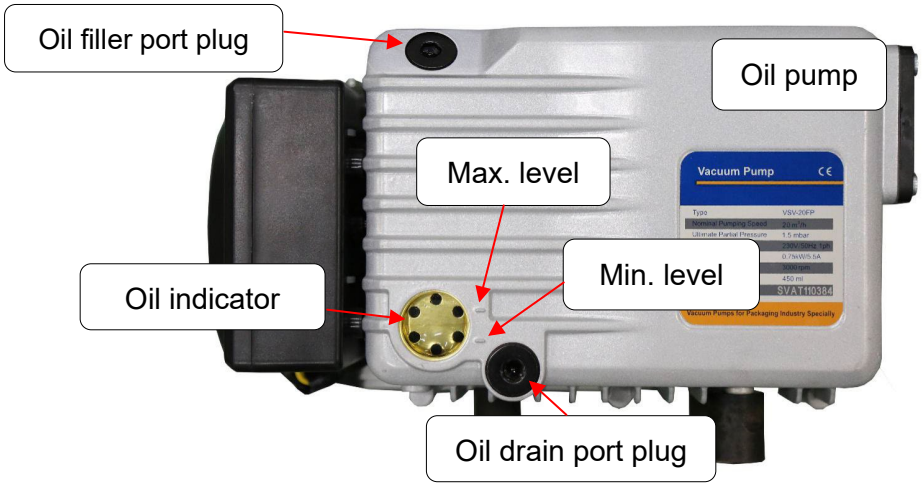
- Fill the pump with oil from the oil bottle until the oil in the pump remains in 1/2~3/4 position (between MIN and MAX displayed by the oil indicator).
- Screw the cap on tightly and reinstall the cover of oil window n°1.

Draining oil

- Use the screwdriver to open oil window n°2.
- Prepare a container and place it directly the oil drain hole.
- Use the wrench (provided by the supplier) to unscrew the cap, then the oil will start to drain out.
- Once all the oil has been drained, screw the cap back and reinstall the cover of oil window n°2.







Gaz Inflation System

Warning! Explosion!

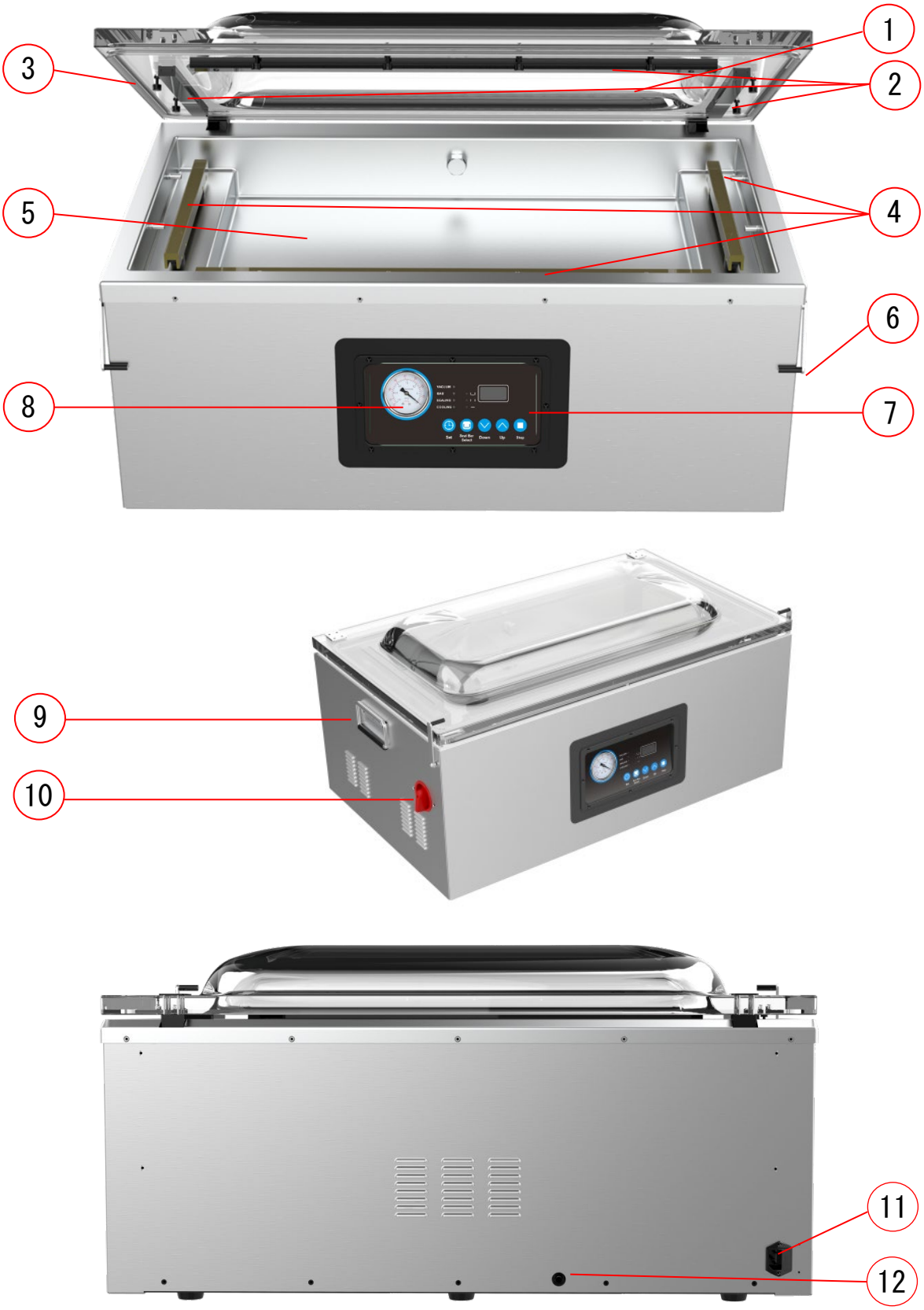
Explosive gases or gas mixtures containing 20 % (or more) oxygen must not be used, as they may cause an explosion.

Be cautious! Risk of machine damage.

The pressure of gas source must not exceed atmospheric pressure.

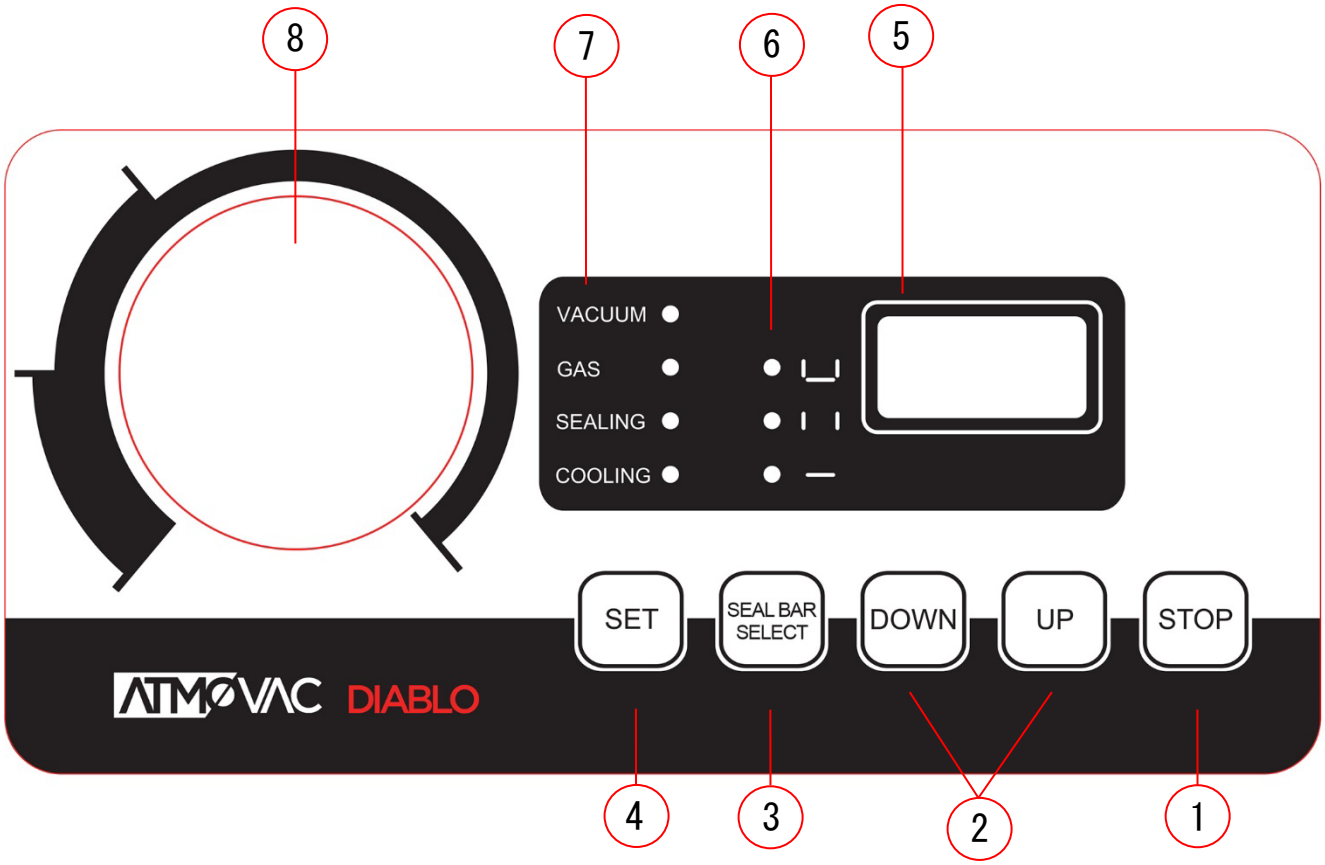
- Do not use explosive gases or gas mixtures containing high levels of oxygen, as this may cause an explosion. If any damage or accident is caused by the user's use of the machine in disregard of the instructions, the supplier will not accept any liability.
- The gas cylinder must be tightly closed. If the gas is not used or the machine is not in use, the gas cylinder switch must be securely closed.
- The gas cylinder pressure valve must not exceed 0,1 Mpa, otherwise the machine may be damaged.
- The outer diameter of the connector for the inflation pipe is 11 mm (we recommend using a silica pipe with an inner diameter of 8 mm for inflation). This connector is located on the side or rear of the machine.

3. Product operation



1 Lid	2 Sealing strip	3 Joint
4 Sealing bar	5 Chamber	6 Lid lock
7 Control panel	8 Pressure gauge	9 Handle
10 Power switch	11 Electric Socket	12 Gaz-filled tube connector

3.1. Control Panel



1. Stop Button

Press the 'Stop' button to stop machine operation.

2. Up and Down Button (Time setting buttons)

Press the buttons 'V' and 'Λ' to set the time for each mode.

3. Seal Bar Selection Button

Press the button 'Seal Bar Select' button to select the seal bar to be used.

4. Set button

Press the 'Set' button to switch between working modes, then press 'ν' et 'Λ' to set the duration of each mode.

5. LED Display

- While the machine remains in preparation mode, the LED display shows 'ON', or 'CLO' if the lid is closed.
- When the working mode is ready to be set, the digital display shows the time of setting.
- When the machine is running, the digital display indicates the set-up rest time.

6. Seal Bar Selection Indicator

When you press the 'Seal Bar Select' button to select the seal bar, the corresponding indicator lights up.

|‾‾| three seal bars are operating

| | two seal bars operate left and right.

‾‾ : one seal bar operates at the front.

7. Operating Mode Indicator

- the light on indicates that the relative working mode is ready to be set.
- The flashing light indicates that the machine is operating in relative work mode.

8. Pressure Gauge

Indicates chamber vacuum pressure.

9. Reset to factory settings

After plugging the machine to power and turning on the switch on the left of the machine, press and hold the 'Seal Bar Select' and 'Set' buttons, the machine displays 'rS' with a 'di' sound, and returns to its factory settings.

3.2. Technical parameters

Model	DIABLO 12D27G
Voltage	110-120V~60Hz
Power	2355W
Amps	21.5A
Plug configuration	NEMA 5-15P
Pressure	-29.9inHg（-1012mbar）directly in pump -29.5inHg（-1000mbar）in vacuum chamber
Pump	Pompe à l'huile
Pump speed	24cm/hr
Seal Bar Width	3.5mmx2、3.5mmx2、3.5mmx2 0.14"x2 x 0.14"x2 x 0.14"x2
Seal Bar	318mmx2、686mmx1 12.52"x2 x 27"x1
Max bag width	318mm、686mm 12.52"x27"in
Machine dimensions	(W)941 x (D)581 x (H)472 mm (W)37.04" x (D)22.87" x (H)18.58" in
Chamber dimensions	(W)845 x (D)444 x (H)168 mm (W)33.26" x (D)17.48" x (H)6.61" in
Shipping weight and dimensions	Gross weight : 271 lbs Net weight : 209.4 lbs Dimensions (in) : (W)41,53" x (D)26,38" x (H)25,40"

3.3. Operating Instructions

To extend the life of your chamber vacuum sealer, we strongly recommend that you pause for at least 20 seconds between each sealing operation.

1. Choose a vacuum bag of the right size and place the object in the bag, leaving a gap of at least 2 inches

(5 cm) between the top of the bag opening and the object to ensure the sealing effect.

2. Plug the unit to power and activate the switch on the left of the unit; the digital tube will then display 'ON'. If the digital tube displays 'CLO', open the vacuum cover to switch to the preparation state.

   Note: When the LED display shows 'CLO', the machine is in protection mode. In this state, no matter which button you press, the machine will not operate. Open the vacuum lid, and then the machine can resume normal operation.

3. Gas Inflation Function (inert gas such as nitrogen)

   ▪ If the gas inflation function is required (it is generally used for packaging fragile items), connect the air source before setting the parameters and operation, and set the air source pressure to 0,1mpa maximum, then set the inflation time when setting the parameters.

   ▪ If the inflation function is not required, the inflation time can be set to 0 when setting the parameters.

4. Parameters settings

   ▪ Press the 'Set' button to switch vacuum time, gas inflation time, sealing time and cooling time, when the corresponding indicator lights up, then set the required time using the '∧' '∨' buttons (with the memory function, the machine parameters will keep the last working parameters in memory).

   Note: if a setting is adjusted to 0, this means that this process will be suppressed during operation.

5. Place the bag with the items flat in the vacuum chamber, position the bag opening over the sealing bar and clip the bottom side of the bag opening into the clip. The bag opening must remain clean and free of liquid and debris.

6. Close and lightly press the vacuum lid, and the machine begins to vacuum and seal automatically. During the working process, when the working mode is in progress (vacuuming, sealing, cooling), the corresponding indicator light flashes. If sealing is required in advance, press the 'Stop' button during the vacuuming process to switch to sealing mode.

7. When the operation is complete, the machine emits the 'di' sound three times and the operation is finished.

8. Open the lid, take out the item, check the seal and place it in the fridge or freezer.

Note: A successful seal looks '*clear*' on inspection. If the seal is '*blotchy or incomplete*', increase the sealing time by one digit. If the seal is '*white or milky*', decrease the sealing time by one digit.

4. Maintenance**Maintenance is essetial to extend machine life, avoid quality defects and achieve optimum packaging performance. If the machine is frequently used (more than 4 hours a day), it is advisable to have it professionally serviced every six months. If the machine is used less than 4 hours a day, it is possible to carry out a complete service every year (depending on working conditions and product conditions).**

- Before carrying out maintenance, please unplug the machine's power cord from the wall outlet.
- If the machine does not operate normally and makes strange noises, switch if off and contact the supplier.
- Do not use detergents (containing solvents) to clean the machine. Check at least once a week whether the li dis broken or not. If the cover is broken, stop using the unit immediately.
- Never treat the unit with a high-pressure cleaner, as this will cause serious damage to electrical parts or other parts of the machine.
- Do not allow water to enter the vacuum port of the chamber or the air outlet port of the pump, as this may cause irreparable damage to the pump.
- A non-specialist cannot carry out large-scale maintenance of the machine.
- Keep the machine in an upright position when moving or transporting it, as tilting it will damage the pump.
- The machine can be operated for a minimum of 8 hours per day. If the users extend the working time of the machine without authorization and cause damage or quality problems to the machine, the supplier will not take any responsibility in this respect.

- If the user does not use the machine in accordance with this manual and causes damage or quality problems to the machine, the factory will not take responsibility.

4.1. The lid

- Never place the machine near a heat source, as this may damage the lid.
- Never place hot/sharp/heavy objects on the lid, as this may damage it.
- Please use a solvent-free detergent to clean the lid, as solvent may damage it.
- Check at least once a week whether the lid is broken or not. If the lid is broken, stop using the machine immediately until a new lid is replaced. If you continue to use a broken lid, the inside of the lid may explode. If the lid explodes, there's is a risk of injury to personnel. The supplier accepts no liability for this type of misuse.
- For safety reasons, please replace the cover every 3 years.

4.2. The pump

To extend the pump's service life and ensure its smooth operation, it is very important to carry out daily pump maintenance. If the machine is used frequently, we suggest at least one complete pump check per year. If you have any doubts or need advice, please contact your supplier.

- A new machine has no oil in the pump. If you are using a new machine for the first time, fill it with oil before use.
- Check the color of the oil.
- The oil should be clear and shiny, not muddy or bubbly. When the oil is at rest, but white substances do not disappear, this means that the oil contains impurities. If the oil contains impurities or turns black, it must be changed.
- Oil life
- Oil life depend on working conditions and a clean and dry environment. Normally, the oil must be changed every 50 working hours or at least every 6 months.
- Please check the oil level and volume in the pump at least once a week. The user can check the oil volume via the oil window, and if the oil level is below ½ position shown on the oil gauge, the oil should be topped up.

4.3. The sealing strip

Check the rubber seal at least once a week. If the sealing strip is broken or uneven, replace it immediately.

- If the sealing strip is jammed in the groove of the cover, it can be removed directly.
- Remove the old sealing strip from the lid groove.
- Install a new sealing strip in the groove.
- Once the installation is complete, check whether the sealing strip has been installed evenly.

4.4. The gasket

The purpose of the gasket is to ensure hermetic sealing of the chamber when the machine is running. It is important that the machine reaches the required vacuum pressure. Under the effect of different pressures, the seal wears out. It must therefore be replaced periodically. The seal should be checked at least once a week for wear or breakage.

- The seal is jammed in the groove of the cover and can be removed directly.
- The user can check the length of the new gasket in relation to the old one. If the gasket is too long or too short, it may prevent the lid from closing tightly, or leave a gap which may cause leakage when the machine is running.
- Install a new gasket in the groove.
- Make sure the gasket is installed evenly, but not too tightly. Both ends of the gasket must be perfectly straight, even, and compact to prevent leakage.

4.5. Errors and Troubleshooting

Error code	Causes of warnings	Troubleshooting
E01	When the machine is in sealing mode, the microswitch system does not close.	1.Press the 'Stop' button 2.Check if the lid is well closed. 3.Check whether the microswitch system is working normally or not (GAS1 cable, microswitch, 10P data cable)

The A-weighted sound pressure level is 73.9dB(A). The vibration level is 0.34m/s2.

Thank you for your purchase.

Happy vacuuming!

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