User Manual

Chamber Vacuum Sealer

Diablo20D



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Introduction

Thank you for choosing the Diablo20D Vacuum Packaging Unit. We are confident that you will enjoy the convenience of this high-quality, high-performance appliance. To ensure that you operate the chamber vacuum sealer correctly, please read this user manual carefully before using the unit.

Notice:

- Please ensure to read all instructions carefully before using the appliance.
- Please ensure that the person in charge, as well as anyone else operating the unit, are familiar with the key points of this manual.
- Once you have read the manual, please store it in a convenient location where users can easily reference it.
- If you have any questions, please contact the supplier.
- Avoid the use of organic solvents or harsh chemicals when cleaning the lid to avoid a degradation of the material.

Responsibilities:

- This manual contains detailed information on how to properly operate the vacuum sealer. The supplier will not be held responsible for any damage or harm caused by the incorrect operation of the unit.
- The supplier will not be held responsible for damage to, or malfunction of the unit caused by the use of incorrect spare parts.
- Spare parts codification could change without prior notice.

Safety Notice

Warning Summary

This product conforms to the latest technical and safety standards. Incorrect use of the unit is dangerous and may cause harm to the operator or bystanders. Please see below for the description of the various warnings: DANGER, WARNING, CAUTION.

	DANGER Ignoring this safety notice may cause death or serious injury.

	WARNING Ignoring this safety notice may cause death or serious injury.

	CAUTION Ignoring this safety notice may cause death or serious injury.

Operation

This unit is intended to be used indoors under normal conditions. If the unit must be used in extreme conditions (e.g., in a caustic environment or in temperatures higher than 40 ˚C or lower than 5 ˚C), please contact the supplier.

When the unit is operating, the oil in the pump will be separated to the maximum extent; however, it will not be separated completely.

	**CAUTION! May cause injury!**
	Residual oil from the pump will be present in the air. Long-term inhalation of such air is harmful to health. The unit must be used in an environment with adequate ventilation.

If the appliance is used in the food industry, food-safe oil must be used.

Transportation and Storage

Wooden Case Packing

If a lifting device is used when setting up the unit, please pay particular attention to the position of the center of gravity of the unit.

- Ensure that the straps can be safely attached to the unit.
- For added safety and stability, use a spreader beam.
- Lift the unit with a crane.

		**CAUTION!** Do not walk under or stay close to the working crane or suspended load.

Before moving the unit, please be sure to drain all oil from the pump.

 \	**CAUTION! May cause damage to the unit.**
	Tipping over the unit when there is oil in the pump will cause oil to enter the pump chamber. If there is too much oil in the chamber when the pump is started, the pump will be damaged. Do not move the unit after the pump is filled with oil.

Storing the Unit Short Term

- Ensure that the appliance is turned off, unplug it, and put away the power cord.
- Close the lid and lock it using the lid lock.
- Cover the appliance with a plastic bag to protect it from dust.
- Keep the machine in a dry, dust-free and shockproof environment.

Storing the Unit Long Term

The inside of the unit has received an anticorrosive treatment in the factory; therefore, it is not necessary to use protective oil. However, in extreme storage conditions (e.g., in a caustic environment or where temperatures are very high or fluctuate frequently), it is necessary to reapply oil in order to keep the unit in good condition.

- Ensure that the appliance is turned off, unplug it, and put away the power cord.
- Close the lid and lock it using the lid lock.
- Cover the appliance with a plastic bag to protect it from dust.
- If possible, store the appliance in its original packaging.
- If the appliance is to be moved, ensure that all oil in the pump is drained.
- Keep the machine in a dry, dust-free and shockproof environment.

Set-up

	**CAUTION! May cause damage to the unit.**
	Please follow all instructions below when setting up the machine. Below conditions must be met during set-up of the unit in order to avoid damage. Be careful not to get hurt.

Please ensure to use the appliance in an environment conforming to the safety indications.

- Unit must not be operated close to flammable or explosive gases.
- Suitable temperature range: 5 ˚C to 40 ˚C. If the unit must be used in an environment outside this range, please contact the supplier.
- Ambient pressure: standard atmospheric pressure.
- Ensure that the power supply conforms to the standard.
- When moving the unit, ensure to keep it in an upright position. Tipping the unit will damage the pump.

- Ensure that the appliance is in a horizontal position when in use.
- Keep a distance of 10 cm between the unit and walls or other objects to ensure adequate ventilation.
- Keep the appliance away from sources of heat or steam (such as steaming pot, dishwashers or stoves)
- Ensure that you have extra oil as well as spare parts for the more easily damageable parts on hand.

Filling and Draining the Oil

	**CAUTION! May cause damage to the unit.**
	Note that there is no oil in a new machine. Operating the vacuum sealer without oil will damage the appliance. Before operating the machine, ensure that the pump has been filled with oil. Only fill the pump with oil via the filling port. Filling oil from anywhere else may damage the pump. Inhaling gas emitted from the pump during operation may have harmful long-term to effects to health (emissions may contain residual oil). Only use the appliance in a well-ventilated area.

		When the pump is operating, the inside of the pump chamber will be full of oil mist; both the temperature and pressure are very high. If the oil-filling port is open, harm may be caused by the hot oil mist. The oil plug can only be opened when the pump stops working. When the pump is working, the oil plug must be screwed tight.

Filling the Oil

- Use a screw driver to open oil window #1.
- Use the spanner provided by the supplier to unscrew the filling port cap.
- Fill the pump with oil until the level of oil reaches approximately 1/2 to 3/4, between MIN and MAX, on the indicator.

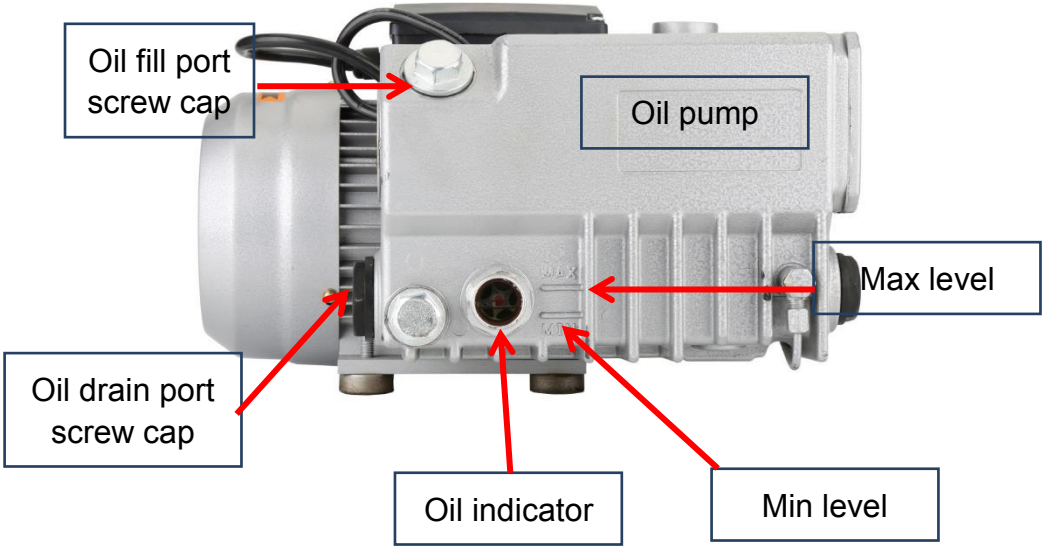
- Screw the cap back on tightly and reinstall the cover of oil window #1.

Draining the Oil

- Use a screw driver to open oil window #2.
- Place a container directly under the oil-draining port.
- Use the spanner provided by the supplier to unscrew the cap which will allow the oil to drain.
- After all the oil is drained, screw the cap on tightly and reinstall the cover of oil window #2.


Oil window #1
Oil window #2




Oil fill port screw cap
Oil pump
Max level
Oil drain port screw cap
Oil indicator
Min level

Gas Inflation System (if applicable)

		**WARNING! Risk of explosion!** Do not use explosive gas, or any mixed gas containing 20% or more oxygen; otherwise, it will cause an explosion.

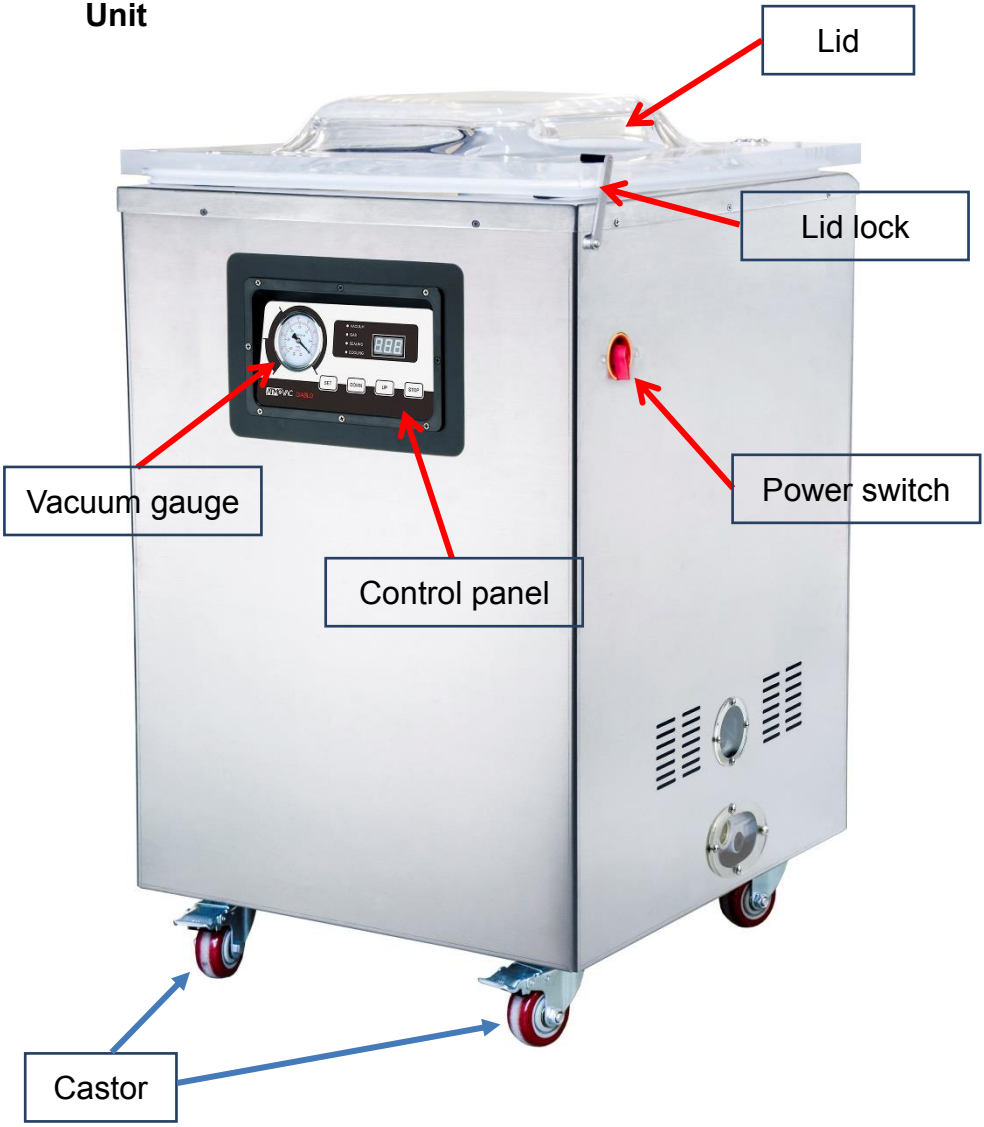
	**CAUTION! May cause damage to the unit.** The pressure of the gas source must not be higher than standard atmospheric pressure.

- Please do not use explosive or mixed gases which contain a large quantity of oxygen; these will cause an explosion. The supplier will not be held responsible for any damage or harm caused if this guideline is not respected.
- The gas bottle must be tightly closed. If the gas inflation system will not be used, the gas bottle switch must be well closed.

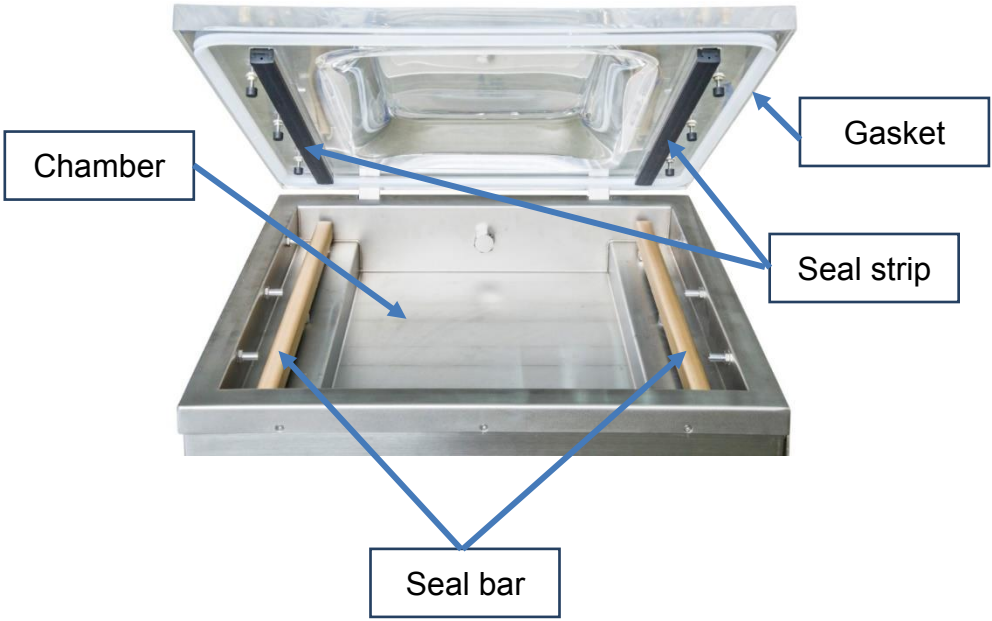
- The pressure setting valve on the gas bottle must not be higher than 0.1MPa; otherwise it will damage the unit.
- The diameter of the gas-filled tube is 8 mm. This connector will be located at the side or at the back of the unit.

Day-to-Day Operation

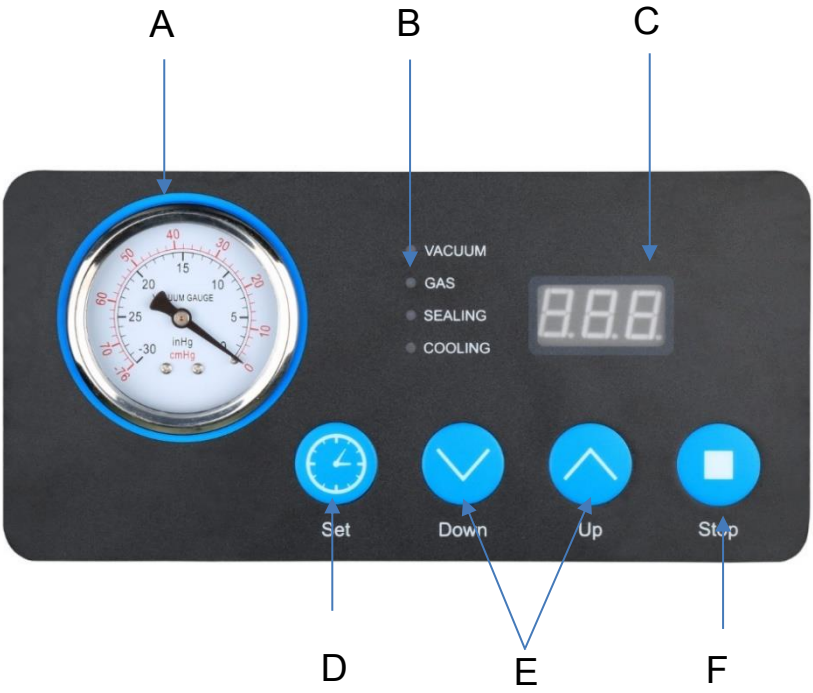
Unit



Chamber



Control Panel



A. Vacuum gauge

Shows pressure in the vacuum chamber

B. Indicator light

- When the light is on, the corresponding operation mode is ready to be set.

- When the light is flashing, the unit is functioning in the corresponding operation mode.

C. LED Display

- “OFF” indicates the unit is in standby.
- “ON” or “CLO” indicates the unit is ready.
- When the mode is ready to be set, the display shows the duration of the setting.
- When the unit is operating, the display shows the time remaining.

D. Set button

- Press the Set button to switch the operation mode.
- Press the Down (∨) and Up (∧) buttons to adjust the time for the relevant mode.

E. Time adjustment buttons

- Press the Down (∨) and Up (∧) buttons to adjust the time for the relevant mode.

F. Stop button

Press the Stop button to stop the appliance.

Technical Specifications

Voltage:	110–120 Vac 60 Hz/220–240 Vac 50 Hz
Power:	1180W/1180W
Pump type:	Oil pump
Pressure:	-29.9″ Hg (-1012 mbar) - directly in pump
	-29.8″ Hg (-1009 mbar) - in vacuum chamber
Seal wire width:	3.5 mm × 2+3.5mm × 2
Seal bar:	508 mm × 2
Max bag width:	508 mm
Dimensions:	600 × 652 × 1016 mm

Operating Instructions

1. Select the appropriate size vacuum bag. Be sure to allow at least one to two inches of extra space at the top of the bag to ensure an airtight seal
2. Check that the electrical cord is plugged into a grounded electrical socket; turn the power switch on – CLO will appear on the display.
3. Open the lid; ON will be displayed and the unit will remain in READY mode. Place the vacuum bag into the chamber with the opening of the bag across the seal bar.
4. Press the Set button and the Down (∨) and Up (∧) buttons to set the duration for each mode.

   Range of duration – vacuum: 5-90s; range of duration - gas inflation: 0-10s; range of duration - sealing: 0-6s; range of duration – cooling: 0-10s.

   When all settings have been defined, press the Set button again. The unit will return to READY mode and ON will be displayed. (If a setting is set to 0s, it will be

skipped. The Diablo20D model does not offer the gas inflation option; press the Set button to leave it at 0s.)

5. Close the lid; the process will start. The indicator light shows the mode that is in progress, and the time remaining for that mode is displayed.
6. Once the process is completed, the lid will release automatically, and the machine will beep.
7. Open the lid and remove the bag.

   Please note that although vacuum packaging slows down the deterioration of food, it does not stop it entirely. Vacuum packaged foods still need to be stored in the refrigerator or freezer.
8. Restoring factory default settings

   Let the machine power on. When OFF is displayed, simultaneously press the SET button and the UP arrow for 3s. Once the unit beeps and displays rS, restore factory default setting has been successful.

Maintenance

Maintenance of your chamber vacuum sealer is necessary in order to extend the service life of the unit. If the unit is used frequently (more than four hours per day), professional maintenance should be carried out every six months. If used less than four hours per day, professional maintenance should be carried out once per year (may vary based on the performance of the unit).

- Always unplug the unit before cleaning.
- If the unit does not work properly, or if it makes strange noises, please turn it off and contact the supplier.
- Do not use a solvent-based detergent to clean the unit. Check the lid for damage at least once a week. If the lid is damaged, stop using the unit immediately.
- Do not high-pressure wash the unit. It may severely damage electrical or other components.
- Never let water enter the vacuum port or air outlet of the pump; this will cause irreparable damages to the pump.

- Only a qualified specialist should carry out full maintenance on the unit.
- When moving the unit, ensure to keep it in an upright position. Tipping the unit will damage the pump.
- The unit can operate up to a maximum of eight hours per day. The supplier will not be held responsible for any performance issues or damages caused to the unit if it is operated more than the maximum number of hours.
- If the user does not operate the unit according to the specific instructions contained in this manual, the supplier and/or the manufacturer will not be held responsible for any performance issues or damages caused to the unit.

Lid

- Never place the unit near a source of heat as this may damage the lid.
- Never place anything hot, sharp or heavy on the lid as this may damage it.

- Do not use a solvent-based detergent to clean the lid as the solvent may damage it.
- Check the lid for damage at least once a week. If the lid is damaged, stop using the unit immediately until the lid has been replaced. Operating the unit with a broken lid may cause an explosion which may cause major or fatal harm. The supplier will not be held responsible for any damage or harm caused if the unit is used with a broken lid.
- For safety reasons, please replace the lid every three years.
- Avoid the use of organic solvents or harsh chemicals when cleaning the lid to avoid a degradation of the material.

Pump

Daily maintenance of the pump is necessary in order to extend the service life of the unit and ensure that it functions properly. If the unit is used frequently, professional maintenance should be carried out on the pump at least once per year. When in doubt or for any

advice, please contact the supplier.

- New units do not have oil in the pump. Before using your unit for the first time, please fill the pump with oil.
- Please check the color of oil; it should be clear and bright. It should not be cloudy or contain any bubbles. If the oil appears milky when it is at rest, it is a sign that the oil contains impurities. When the oil contains impurities or starts turning black, it must be changed.
- The service life of oil will depend on the usage of the unit and the environment in which it is used. As a general rule, the oil should be changed every 50 working hours, or every six, whichever comes first.

  Please check the oil level in the pump at least once per week. You can check the level through the oil window. You must add oil if the level is lower than the halfway mark on the indicator.

Seal Strip

Please check the seal strip at least once per week. If the seal strip is broken or uneven, please replace it

immediately.

- The seal strip is located in the groove of the lid and can be removed easily.
- To replace the seal strip, remove the used seal strip from the groove of the lid.
- Install the replacement seal strip into the groove.
- Please ensure that the seal strip is installed evenly.

Gasket

The purpose of the gasket is to seal the chamber when the machine is in use; it is key in allowing the unit to reach the required vacuum pressure. The gasket may become worn out and for this reason, it may occasionally need to be replaced. Please check the gasket at least once per week to ensure that it is not worn or broken.

- The gasket is located in the groove of the lid and can be removed easily
- Check the length of the new gasket against the old one; if it is too long or too short, the lid may not close tightly

which will cause leakage when the unit is running.

- Install the replacement gasket into the groove.
- The gasket must be installed evenly but not too tightly. Both ends of the gasket must perfectly straight and even in order to prevent any leakage.

Error Codes and Troubleshooting

Error code	Cause	Troubleshooting
E01	The unit has been vacuuming for some time, the pressure switch doesn't close.	1) Check if the lid is closed tightly. 2) Check if the gate control switch system is working normally or not (gate control switch ASSY, GASI connecting cord, micro switch, 10P data cord)
LP	Unit loses power while operating	1) Check the power supply. 2) Check the unit's power supply (power cord, 10P data cord).

The A-weighted sound pressure level is 73.9 dB (A).

The vibration level is 0.34 m/s^2



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