

[Manuals.plus](#) /

› [VEVOR](#) /

› VEVOR 5 Gallon Stainless Steel Vacuum Chamber Instruction Manual

## VEVOR QCKTZKB5JLZKTDM01V0210527

# VEVOR 5 Gallon Stainless Steel Vacuum Chamber Instruction Manual

Model: QCKTZKB5JLZKTDM01V0210527

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your VEVOR 5 Gallon Stainless Steel Vacuum Chamber. This equipment is designed for degassing various materials such as urethane, silicones, epoxy resins, and for extracting essential oils. Please read this manual thoroughly before operation to ensure proper setup, usage, and maintenance.



Figure 1: VEVOR 5 Gallon Stainless Steel Vacuum Chamber with accessories.

## 2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Ensure the vacuum chamber is placed on a stable, level surface.
- Do not exceed the maximum operating temperature of 160°F (71°C) for the acrylic lid.
- Always wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, when operating the vacuum chamber.
- Never operate the vacuum pump without sufficient vacuum pump oil. Refer to the vacuum pump's manual for specific oil requirements and levels.
- Do not attempt to open the chamber while it is under vacuum. Slowly release the vacuum before opening.
- Keep the equipment away from flammable materials and open flames.
- Regularly inspect the lid, gasket, and hoses for any signs of wear, cracks, or damage. Replace damaged

components immediately.

- Ensure all connections are tight before initiating vacuum.

### 3. PRODUCT COMPONENTS

---

The VEVOR 5 Gallon Vacuum Chamber kit includes the following main components:

- **Stainless Steel Chamber:** A durable 5-gallon capacity chamber resistant to corrosion and chemical damage.
- **Acrylic Lid:** A transparent lid allowing observation of the degassing process, with a maximum temperature rating of 160°F.
- **Silicone Gasket/Seal Ring:** Provides a high-sealability, non-stick surface for the lid.
- **Vacuum Gauge:** A pressure gauge for accurate measurement of vacuum levels.
- **Valve Assembly:** Includes a precision valve, tight cast valve, and an oil filling port for the gauge.
- **Hose:** A wear-proof steel wire reinforced hose for connecting to a vacuum pump.
- **Silencers:** Two silencers to reduce noise during pump operation.
- **Silicone Mat:** A reversible rubber mat for placement inside the chamber.

# ADVANCED VACUUM CHAMBER

High-quality chamber can withstand up to 160 °F



Stainless Steel Material

Resistant to corrosion  
& chemical damage

Ours



High-strength & Glossy

VS

Others



Thin & Easy to Deform

Figure 2: Illustration of the durable stainless steel chamber construction.

# HIGH SEALING TRANSPARENT LID

Monitor oil levels easily and avoid oil deficiency



Epoxy Resin



Polyurethane



Essential Oil



## Visual Lid

Observe & adjust the whole workflow in time

Seal Ring

Silicone Gasket

Figure 3: Transparent lid and sealing components, suitable for various materials.



## 5. OPERATING INSTRUCTIONS

---

This section outlines the general procedure for degassing materials using the VEVOR vacuum chamber.

1. **Prepare Material:** Place the material to be degassed (e.g., resin, silicone) into a container that is smaller than the chamber and can withstand vacuum. Ensure the container is not filled to the brim, as materials may expand significantly under vacuum.
2. **Place Material in Chamber:** Carefully place the container with the material inside the vacuum chamber. You may use the provided silicone mat at the bottom of the chamber.
3. **Secure Lid:** Place the acrylic lid firmly onto the chamber, ensuring the silicone gasket creates a tight seal.
4. **Close Valves:** Ensure all valves on the lid's manifold are in the closed position.
5. **Start Vacuum Pump:** Turn on your vacuum pump.
6. **Open Vacuum Valve:** Slowly open the valve connecting the chamber to the vacuum pump. Observe the vacuum gauge.
7. **Monitor Degassing:** As vacuum is applied, the material will begin to bubble and expand. Monitor this process through the transparent lid. If the material expands too much and threatens to overflow, partially close the vacuum valve to reduce the vacuum slightly, then reopen it slowly. Repeat this process as necessary until bubbling subsides.
8. **Maintain Vacuum:** Once bubbling has stopped or significantly reduced, maintain the desired vacuum level for the recommended duration for your specific material.
9. **Release Vacuum:** After the degassing process is complete, first close the valve connecting the chamber to the vacuum pump. Then, slowly open the air release valve on the manifold to gradually allow air back into the chamber. Do not open the chamber until the vacuum gauge reads zero.
10. **Remove Material:** Once the pressure is equalized, carefully remove the lid and retrieve your degassed material.

# 5 GAL VACUUM CHAMBER

Safely remove air and gases from resin, epoxy & other solvents



Figure 5: The vacuum chamber in an operational environment.

# PRODUCT SPECIFICATIONS:

# VEVOR®

Product Weight: 13 lbs (5.85 kg)

Product Size: 11 x 11.8 in / 28 x 30 cm

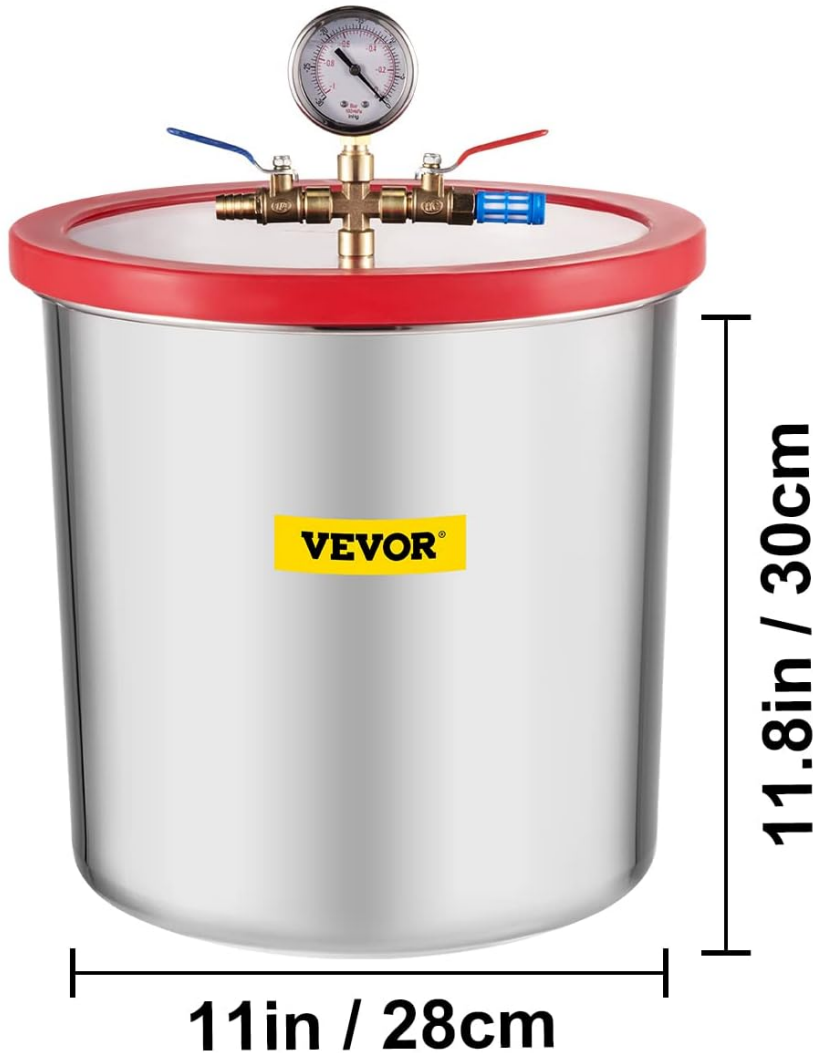


Figure 6: Examples of materials suitable for degassing.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your vacuum chamber.

- **Clean Chamber:** After each use, clean the interior of the stainless steel chamber and the acrylic lid with a soft cloth and mild detergent. Avoid abrasive cleaners that could scratch the acrylic.
- **Inspect Gasket:** Regularly check the silicone gasket for cracks, tears, or deformation. A damaged gasket can lead to vacuum leaks. Replace if necessary.
- **Check Hoses:** Inspect the vacuum hose for kinks, cracks, or loose connections. Ensure it is free from obstructions.
- **Vacuum Pump Maintenance:** Refer to your vacuum pump's manual for its specific maintenance schedule, including oil changes and filter cleaning. Maintaining your vacuum pump is crucial for the overall system's performance.
- **Gauge Protection:** The vacuum gauge has an oil filling port to help maintain pressure and prevent cracking. Ensure this is properly sealed and protected.

## 7. TROUBLESHOOTING

If you encounter issues during operation, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
<b>Chamber does not hold vacuum or pulls weak vacuum.</b>	<ul style="list-style-type: none"><li>◦ Loose connections on hose or valves.</li><li>◦ Damaged or improperly seated silicone gasket.</li><li>◦ Cracked acrylic lid.</li><li>◦ Vacuum pump issue (low oil, worn components).</li></ul>	<ul style="list-style-type: none"><li>◦ Check and tighten all hose and valve connections.</li><li>◦ Inspect the silicone gasket; reseal or replace if damaged.</li><li>◦ Inspect the lid for cracks; replace if found.</li><li>◦ Check vacuum pump oil level and condition; refer to pump manual for troubleshooting.</li></ul>
<b>Material overflows during degassing.</b>	<ul style="list-style-type: none"><li>◦ Container too full.</li><li>◦ Vacuum applied too quickly.</li></ul>	<ul style="list-style-type: none"><li>◦ Use a larger container or less material.</li><li>◦ Slowly open the vacuum valve to control the rate of vacuum application. Partially close the valve if material rises too quickly.</li></ul>
<b>Lid appears to be cracking.</b>	<ul style="list-style-type: none"><li>◦ Exceeding maximum temperature (160°F).</li><li>◦ Prolonged exposure to harsh chemicals.</li><li>◦ Manufacturing defect or stress.</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure material temperature does not exceed 160°F.</li><li>◦ Avoid direct contact of aggressive chemicals with the lid.</li><li>◦ Replace the lid immediately if cracks are observed.</li></ul>

## 8. SPECIFICATIONS

Key specifications for the VEVOR 5 Gallon Vacuum Chamber:

- **Brand:** VEVOR
- **Model Number:** QCKTZKB5JLZKTDM01V0210527
- **Capacity:** 5 Gallon
- **Chamber Material:** Stainless Steel
- **Lid Material:** Acrylic
- **Maximum Lid Temperature:** 160°F (71°C)
- **Product Dimensions:** Approximately 13 x 13 x 13 inches (33 x 33 x 33 cm)
- **Item Weight:** Approximately 12.4 pounds (5.6 kg)





Figure 7: Product dimensions.

## 9. WARRANTY AND SUPPORT

---

For warranty information, technical support, or to purchase replacement parts, please refer to the official VEVOR website or contact their customer service directly.

You can visit the VEVOR store for more products and support: [VEVOR Official Store](#)

Protection plans may also be available for purchase separately. Please check with your retailer for details.

