

# Vacuum Pump User Manual



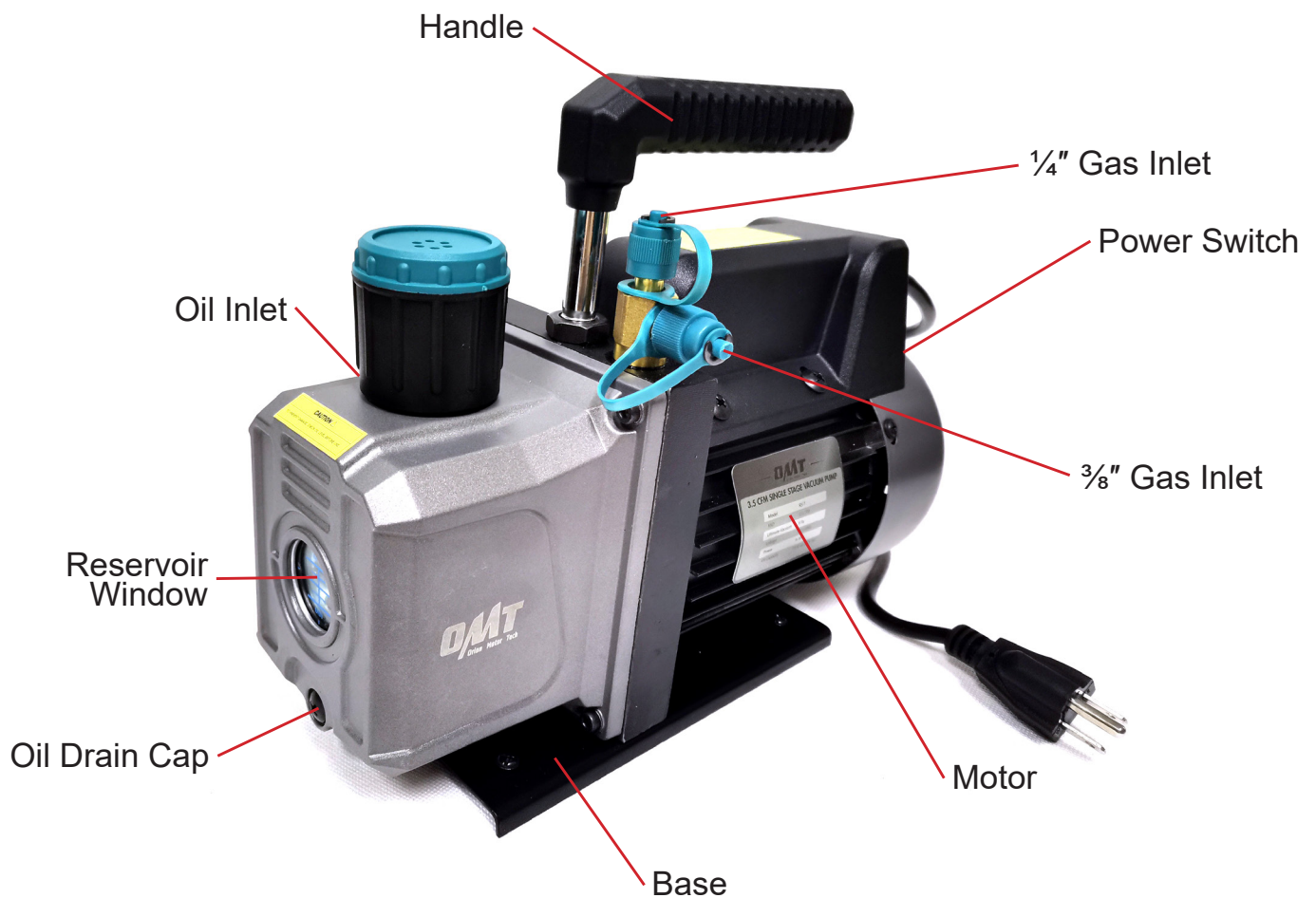
Read Carefully Before Use  
Keep for Future Reference

# Safety Information

## Warning!

- **DO NOT** let children or persons with compromised physical or mental capabilities use this product. **DO NOT** allow people unfamiliar with this product or these instructions to operate it.
- Turn your air-conditioning system off before evacuation.
- **DO NOT** leave it unattended during use.
- For best results, use with proper personal protective equipment such as a dust mask, goggles, and work gloves in a well-ventilated place.
- **DO NOT** operate this product if it is damaged or malfunctions. Repair or replace damaged components before further use.
- Store this product out of the reach of children.

# Product Diagram



# Package List

No.	Part	Qty.
1	Vacuum Pump	1
2	Vacuum Pump Oil	1
3	¼" to ½" Adapter	1
4	Work Gloves	2
5	Tape	1

# Specifications

Cap Color	Blue	Orange	Green
Input Power	110V/60Hz	110V/60Hz	110V/60Hz
Evacuation Speed	3.5 cfm (0.1 m <sup>3</sup> /m)	4 cfm (0.11 m <sup>3</sup> /m)	4.5 cfm (0.13 m <sup>3</sup> /m)

# Installation

1. Place the vacuum pump on a level surface and make sure the oil drain is tightly closed by screwing its cap into place with an M4 hex wrench (not included).
2. Remove the pump's oil inlet cap by unscrewing it by hand. Add the provided oil until the reservoir window is completely covered. Replace the cap.
3. Connect the ¼" or ⅜" gas inlet with the object for evacuation using a hose and a quick coupler (not included) if needed. If your hose does not match the pump's gas inlets, attach the ¼" to ½" adapter or your own appropriate one to your hose. To measure the vacuum degree, equip your hose with a vacuum gauge (not included).

# Operation

## Evacuation

1. Connect the vacuum pump to a stable compatible power supply using a grounded outlet. Do not use a 3-to-2 prong adapter or ungrounded power strip.
2. Turn on the pump by pressing the power switch above the fan and evacuation will begin.
3. When your vacuum gauge reads less than 500 microns or  $-30$  inHg, evacuation is completed. Turn off the pump and disconnect it from the object for evacuation.

## Maintenance

- Disconnect the pump from its power supply before any cleaning, maintenance, or repair.
- The exterior of the pump can be cleaned with a soft damp cloth. Do not use abrasive cleaners or caustic chemicals.
- When the oil turns turbid or its level falls near the bottom of the reservoir window, replace it using the following procedure:
  1. Make sure the remaining oil is warm. If you are unsure of your oil's temperature, plug in and turn on your pump, running it for about 10 minutes to heat the oil sufficiently. Turn off the pump and unplug it before continuing.
  2. Remove the oil drain cap using your M4 hex wrench. Grip the handle of the pump and tilt it down to drain the remaining oil into a suitable container.
  3. Screw the cap into place and start filling it as instructed above. Once the initial oil can has been used up, only use oil of equivalent weight (ISO 100 or SAE 30) as a replacement.
- **NEVER** drop the pump on hard or rough surfaces.
- If any part of the pump is damaged or worn, have it repaired or replaced before further use.
- Unplug the pump and store in a cool, dry, and clean place after use.

# Troubleshooting

Problems	Possible Solutions
The vacuum pump cannot be turned on.	Check your power supply and the pump's power cord. Correct any problems as needed.
	Move the pump to a warmer location, wait a while, and activate your pump.
The vacuum pump turns off automatically during use.	The thermal protector will deactivate your pump if its motor reaches 160°F (70°C). Wait about 15 minutes to let it cool down and restart your pump.

## Contact Us

Thank you for choosing our products! If you have any questions or comments, contact us at [help@cs-supportpro.com](mailto:help@cs-supportpro.com) and we'll resolve your issue ASAP!

For a .pdf copy of the latest version of these instructions, use the appropriate app on your smartphone to scan the QR code to the right.



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Rev. 4 Jan. 2022