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## Robinair 15800

# Robinair 15800 VacuMaster Economy Vacuum Pump User Manual

Model: 15800

## PRODUCT OVERVIEW

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The Robinair 15800 VacuMaster Economy Vacuum Pump is a high-performance, heavy-duty 2-stage rotary vane vacuum pump designed for commercial refrigeration applications. This unit is engineered to efficiently evacuate air conditioning and refrigeration systems, ensuring optimal performance and longevity of the system. It features an 8 CFM free air displacement and is factory rated to 40 microns, providing the capacity needed for various tasks.

Key features include a robust 1 HP, 115V, 60 Hz thermally protected motor, an inlet fitting designed for maximum airflow while preventing oil backflow, and finned aluminum surfaces for enhanced heat dissipation. The pump also includes 1/4" and 3/8" MFL inlet fittings, an easy-to-read sight glass for monitoring oil levels, and a conveniently located oil drain valve for simple maintenance.



Figure 1: Front view of the Robinair 15800 VacuMaster Economy Vacuum Pump, showcasing its compact design and robust construction.

## SETUP INSTRUCTIONS

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1. **Unpacking:** Carefully remove the vacuum pump from its packaging. Inspect the unit for any signs of damage during transit.
2. **Placement:** Place the pump on a stable, level surface. Ensure adequate ventilation around the unit to allow for proper heat dissipation. The non-skid feet will help secure the pump during operation.
3. **Oil Fill:** The pump is supplied with oil. Locate the easy access oil fill port. Fill the pump with the recommended vacuum pump oil until the level is visible in the easy-to-read sight glass, reaching the minimum line. Do not overfill.
4. **Electrical Connection:** Connect the power cord to a grounded 115V, 60 Hz electrical outlet. Ensure the power switch is in the 'OFF' position before plugging in.
5. **Inlet Connections:** The pump features 1/4" and 3/8" MFL inlet fittings. Connect the appropriate hoses from your AC/R system to the pump's inlet fittings. Ensure all connections are tight to prevent leaks.



Figure 2: Side view of the Robinair 15800 VacuMaster Economy Vacuum Pump, highlighting the motor and finned aluminum surfaces.

## OPERATING INSTRUCTIONS

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1. **Pre-Operation Check:** Before starting, verify that the oil level is correct in the sight glass and all connections are secure.
2. **Power On:** Flip the power switch to the 'ON' position. The pump will begin to operate.
3. **Evacuation Process:** Allow the pump to run for the recommended duration to achieve the desired vacuum level (factory rated to 40 microns). The 2-stage rotary vane design ensures efficient and deep vacuum.
4. **Monitor Oil:** Periodically check the oil level and clarity through the sight glass during operation. If the oil appears cloudy or discolored, it may indicate moisture contamination and should be changed.
5. **Power Off:** Once the evacuation is complete and the system holds vacuum, close the system valves, then turn off the vacuum pump.
6. **Disconnect:** Disconnect the hoses from the pump and cap the inlet fittings to prevent contamination.

Your browser does not support the video tag.

Video 1: An official Robinair video demonstrating the features and applications of Robinair vacuum pumps, including the VacuMaster series. This video provides a visual overview of the product's capabilities and design.

## MAINTENANCE

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Regular maintenance is crucial for the longevity and efficient operation of your Robinair 15800 VacuMaster Economy Vacuum Pump.

- **Oil Changes:** Vacuum pump oil should be changed regularly, especially if it appears cloudy, discolored, or contaminated with moisture. The frequency depends on usage, but frequent changes are recommended for optimal performance.
- **Draining Oil:** To drain the oil, place a suitable container under the oil drain valve located at the bottom of the oil reservoir. Open the valve and allow the oil to drain completely. The valve is angled for faster, more complete

draining. Dispose of used oil responsibly.

- **Refilling Oil:** Close the drain valve and refill with fresh, clean vacuum pump oil through the oil fill port until the correct level is observed in the sight glass.
- **Cleaning:** Keep the exterior of the pump clean. The finned aluminum surfaces are designed to dissipate heat; ensure they are free from dust and debris to maintain cooling efficiency.
- **Storage:** When not in use, store the pump in a clean, dry environment. Cap all inlet fittings to prevent contaminants from entering the pump.

## TROUBLESHOOTING

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This section provides solutions to common issues you might encounter with your vacuum pump.

- **Pump Not Starting:**
  - Check the power cord connection to the outlet and the pump.
  - Ensure the power switch is in the 'ON' position.
  - Verify the electrical outlet is functioning correctly.
- **Poor Vacuum Performance:**
  - Check for leaks in the system hoses and connections. Tighten all fittings.
  - Inspect the vacuum pump oil level and condition. Change oil if it is low, dirty, or contaminated.
  - Ensure the system being evacuated is properly sealed.
- **Excessive Noise or Vibration:**
  - Check the oil level; low oil can cause increased noise.
  - Ensure the pump is on a stable, level surface.
  - If noise persists, contact Robinair customer support.
- **Oil Mist from Exhaust:**
  - Some oil mist is normal, especially with new oil or during initial operation.
  - Ensure the oil level is not overfilled.
  - Consider using an exhaust filter if mist is excessive or operating in sensitive environments.

## SPECIFICATIONS

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Feature	Specification
Model Number	15800
Manufacturer	Robinair
Pump Type	2-Stage Rotary Vane
Free Air Displacement	8 CFM
Factory Rating	40 Microns
Motor	1 HP, Thermally Protected
Voltage	115V, 60 Hz

Feature	Specification
Oil Reservoir Capacity	18.6 Ounces
Inlet Fittings	1/4" & 3/8" MFL
Item Weight	1.6 ounces (Note: This weight seems incorrect for a vacuum pump, please refer to product packaging for accurate weight.)
Product Dimensions	8 x 13 x 8 inches
Exterior Material	Steel
Special Features	Portable

## WARRANTY AND SUPPORT

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Robinair stands behind the quality of its products. The Robinair 15800 VacuMaster Economy Vacuum Pump comes with a **No-Hassle Guarantee**. If you encounter any problems with the unit within one year of purchase, you may return it to your distributor for a replacement.

For technical assistance, spare parts, or further inquiries, please contact Robinair customer support. Robinair is a Bosch Automotive Service Solutions brand, committed to providing reliable service tools and equipment.