



[Manuals.plus](#) /

› [FavorCOOL](#) /

› FavorCOOL 3.6 CFM Vacuum Pump FC-36T User Manual

FavorCOOL FC-36T

FavorCOOL 3.6 CFM Vacuum Pump FC-36T User Manual

Model: FC-36T

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation and maintenance of your FavorCOOL 3.6 CFM Single Stage Rotary Vane Vacuum Pump, Model FC-36T. Please read all instructions carefully before use to ensure proper function and longevity of the unit.



Figure 1: FavorCOOL 3.6 CFM Vacuum Pump, Model FC-36T. This image shows the overall design of the vacuum pump, highlighting its compact and portable nature.

2. SAFETY INFORMATION

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

- Ensure the pump is placed on a stable, level surface during operation.
- Always wear appropriate personal protective equipment, including safety glasses and gloves.
- Do not operate the pump without sufficient vacuum pump oil. Check the oil level before each use.
- Disconnect power before performing any maintenance or repairs.
- Avoid direct contact with refrigerant.
- Use only in well-ventilated areas.

3. SETUP

Before operating the vacuum pump, proper setup is crucial:

3.1 Component Identification

AC VACUUM PUMP



Figure 2: Labeled components of the FavorCOOL vacuum pump, including the handle, oil intake, sight glass, fan cover, motor, and non-slip base.

3.2 Initial Oil Filling

1. Remove the oil cap/oil mist trap from the top of the pump.
2. Carefully pour vacuum pump oil into the oil intake until the level is between the 'MIN' and 'MAX' marks on the sight glass. The oil capacity is 300 ml.
3. Reinstall the oil cap/oil mist trap securely.

STRONG MOTOR



Check oil reservoir to prevent lubricant shortages

Mesh vents provide efficient heat dissipation and protect the motor

Figure 3: Close-up view of the vacuum pump's oil reservoir and sight glass, showing the 'MAX' and 'MIN' indicators for proper oil level.

3.3 Connecting Hoses

Connect the appropriate hoses to the vacuum pump's 1/4" flare intake port and to your HVAC or automotive AC system. Ensure all connections are tight to prevent leaks.

4. OPERATING INSTRUCTIONS

This section outlines the general procedure for using the vacuum pump for HVAC and automotive AC systems.

4.1 Vacuuming the System

1. Ensure the vacuum pump is properly filled with oil and connected to the system via manifold gauges.
2. Open the valves on your manifold gauge set.
3. Turn on the vacuum pump. The pump will draw the system down to approximately 37.5 microns (5 Pa).
4. Continue vacuuming for 10-15 minutes to ensure all moisture and non-condensable gases are removed.
5. After vacuuming, close the manifold gauge valves, then disconnect the yellow hose from the vacuum pump, and finally turn off the vacuum pump to prevent oil backflow.
6. Monitor the low-pressure gauge for 5-10 minutes. If the needle remains steady, there is no leak.



Figure 4: The FavorCOOL vacuum pump connected to an automotive AC system, demonstrating its application in vehicle maintenance.

4.2 Refrigerant Recharging

After successful vacuuming, you can proceed with recharging the system:

1. Connect the yellow hose from the manifold gauge set to the refrigerant source (e.g., R134a, R410a, R22).
2. Purge air from the yellow hose by briefly opening and closing the manifold valve.
3. Open the low-side valve on the manifold gauge set to allow refrigerant to enter the system.
4. Monitor the pressure on the gauges and the amount of refrigerant charged according to the system's specifications.
5. Once the desired amount is charged, close the manifold gauge valves and disconnect the hoses.

Your browser does not support the video tag.

Video 1: This video demonstrates the process of vacuuming an AC system and then recharging it with refrigerant using a vacuum pump and manifold gauge set. It covers connecting hoses, operating the pump, and monitoring pressure.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your vacuum pump.

5.1 Oil Level Check

Check the oil level before each use. The oil should be clear and between the 'MIN' and 'MAX' indicators on the sight glass. If the oil is cloudy or discolored, it needs to be changed.

5.2 Oil Change

To change the oil, drain the old oil through the oil drain valve at the bottom of the pump. Dispose of used oil responsibly. Refill with new vacuum pump oil as described in Section 3.2.

6. TROUBLESHOOTING

If you encounter issues with your vacuum pump, refer to the detailed troubleshooting guide in the full user manual for common faults and solutions. Proper operation is key to preventing malfunctions.

7. SPECIFICATIONS

Feature	Specification
Brand	FavorCOOL
Model	FC-36T
Flow Rate	3.6 CFM
Motor Power	1/4 HP
Ultimate Vacuum	37.5 microns (5 Pa)
Voltage/Frequency	110V/60HZ
Oil Capacity	300 ml
Intake Ports	1/4" Flare
Material	Aluminum, Copper, Glass, Plastic, Stainless Steel
Item Weight	11 Pounds
Product Dimensions	10.6 x 4.6 x 8.5 inches
UPC	850007139025

8. WARRANTY AND SUPPORT

The FavorCOOL 3.6 CFM Vacuum Pump comes with a strong 1-year warranty. For any questions, technical assistance, or warranty claims, please contact FavorCOOL's customer service. They are available 24/7 to provide support.