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Yellow Jacket 93600

Yellow Jacket 93600 Vacuum Pump User Manual

Model: 93600

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Yellow Jacket 93600 Vacuum Pump. This 7 CFM economy vacuum pump is designed for professional use, featuring a 115 Volt, 60 Hz single phase motor, 28 oz. oil capacity, and an internal intake check valve to prevent oil backup. Its robust all-metal construction with a steel handle ensures durability.

Important Safety Instructions

WARNING: Read and understand all safety warnings and instructions before operating this vacuum pump. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Electrical Safety:** Ensure the power supply matches the pump's requirements (115V, 60Hz). Always connect to a grounded outlet. Do not operate in wet conditions or with damaged cords.
- **Hot Surfaces:** The pump motor and housing can become hot during operation. Avoid direct contact to prevent burns. Allow the pump to cool before handling or performing maintenance.
- **Oil Handling:** Vacuum pump oil can be irritating to skin and eyes. Wear appropriate personal protective equipment (PPE) such as gloves and safety glasses when handling oil. Dispose of used oil responsibly according to local regulations.
- **Ventilation:** Operate the pump in a well-ventilated area to prevent the buildup of fumes.
- **Intended Use:** This pump is designed for evacuating HVAC/R systems. Do not use it for pumping flammable or corrosive gases, or for any purpose other than its intended use.
- **Maintenance:** Disconnect power before performing any maintenance or service.

2. WHAT'S IN THE Box

Upon unpacking, ensure all items listed below are present and undamaged:

- Yellow Jacket 93600 Vacuum Pump
- Operating Manual (this document)
- Bottle of Vacuum Pump Oil (may be included separately or pre-filled)



Figure 1: The Yellow Jacket 93600 Vacuum Pump, showing its robust construction, carrying handle, and oil sight glass on the front.

3. SETUP

3.1. Unpacking and Inspection

Carefully remove the vacuum pump from its packaging. Inspect the pump for any signs of shipping damage. Report any damage to your supplier immediately.

3.2. Oil Filling

The pump may or may not come pre-filled with oil. Always check the oil level before first use and before each subsequent use.

1. Locate the oil fill cap, usually on top of the pump near the handle.
2. Remove the oil fill cap.
3. Slowly pour Yellow Jacket SuperEvac™ vacuum pump oil into the fill port until the oil level is visible in the sight

glass and reaches the "FULL" mark. The pump has a 28 oz. oil capacity. Do not overfill.

4. Replace the oil fill cap securely.

3.3. Electrical Connection

Ensure the pump is placed on a stable, level surface.

- Verify that the power switch is in the "OFF" position.
- Plug the power cord into a grounded 115 Volt, 60 Hz AC outlet.
- Ensure the power cord is not pinched or in a position where it could be tripped over.

4. OPERATING INSTRUCTIONS

4.1. Basic Operation

1. **Connect Hoses:** Connect the appropriate vacuum hoses from your system to the intake ports on the vacuum pump. Ensure connections are tight to prevent leaks.
2. **Check Oil Level:** Before starting, always verify the oil level in the sight glass. Add oil if necessary.
3. **Start Pump:** Flip the power switch to the "ON" position. The pump should start running smoothly.
4. **Monitor Vacuum:** Use a vacuum gauge to monitor the evacuation process. Allow the pump to run until the desired vacuum level is achieved.
5. **Shut Down:** Once evacuation is complete, close the system's isolation valves. Then, turn the pump off by flipping the power switch to "OFF".
6. **Disconnect Hoses:** Carefully disconnect the vacuum hoses from the pump.

4.2. Preventing Oil Contamination

To prolong the life of your pump and maintain optimal performance, avoid drawing large amounts of liquid refrigerant or moisture into the pump. Use a manifold gauge set with a vacuum-rated hose and a core removal tool if possible to minimize contamination.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and efficiency of your Yellow Jacket 93600 Vacuum Pump.

5.1. Oil Change

Change the vacuum pump oil frequently, especially after evacuating systems with high moisture content. Contaminated oil can significantly reduce pump performance and lifespan.

1. Ensure the pump is cool and disconnected from power.
2. Place a suitable container under the oil drain plug (typically located at the bottom or side of the pump).
3. Remove the oil drain plug and the oil fill cap to allow the oil to drain completely.
4. Once drained, replace the oil drain plug securely.
5. Refill with new Yellow Jacket SuperEvac™ vacuum pump oil as described in the "Oil Filling" section (Section 3.2).

6. Dispose of used oil responsibly.

5.2. Cleaning

- Keep the exterior of the pump clean and free of dirt and debris.
- Periodically check and clean the intake filter screen to prevent particles from entering the pump.

5.3. Storage

When not in use, store the pump in a clean, dry environment. Ensure the oil level is correct and the pump is capped to prevent contaminants from entering.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Pump does not start	No power; Faulty power cord/switch; Motor issue	Check power outlet and connections. Ensure switch is ON. Inspect power cord for damage. If issues persist, contact service.
Low vacuum or slow evacuation	Contaminated oil; Leaks in system/hoses; Clogged intake filter; Worn pump components	Change oil. Check all connections for leaks using a leak detector. Clean intake filter. If problem persists, professional service may be required.
Oil misting from exhaust	Overfilled oil; Contaminated oil; Normal operation with high moisture content	Check oil level and drain if overfilled. Change oil if contaminated. This can be normal with high moisture content in the system being evacuated.
Unusual noise or vibration	Low oil level; Contaminated oil; Internal mechanical issue	Check and top up oil. Change oil. If noise persists, discontinue use and seek professional service.

7. SPECIFICATIONS

Feature	Detail
Model Number	93600
Manufacturer	Yellow Jacket
Flow Rate	7 CFM (Cubic Feet per Minute)
Voltage	115 Volt
Frequency	60 Hz
Phase	Single Phase

Feature	Detail
Oil Capacity	28 oz.
Check Valve	Internal intake check valve (prevents oil backup)
Filter	Intake filter screen
Construction	All metal construction with steel handle
Product Dimensions	8 x 13 x 19 inches
Item Weight	30.8 Pounds
Date First Available	March 1, 2010

8. WARRANTY AND SUPPORT

Yellow Jacket products are manufactured to high standards and are typically backed by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Yellow Jacket website.

For technical support, service, or to inquire about replacement parts, please contact Yellow Jacket customer service directly. Contact information can usually be found on the manufacturer's website or on the product packaging.

Please retain your proof of purchase for warranty claims.

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This manual is subject to change without notice.