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LIKARVA V-0.25/8

LIKARVA V-0.25/8 Air Compressor Pump Head Instruction Manual

Model: V-0.25/8

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your LIKARVA V-0.25/8 Air Compressor Pump Head. Please read these instructions thoroughly before use and retain them for future reference.

The LIKARVA V-0.25/8 is a 3HP V-type twin-cylinder air compressor pump head designed for various applications including factory use, home decoration, auto repair, and painting. It features high efficiency, precision, and robust construction with a strong heat sink for effective heat dissipation.

2. SAFETY INFORMATION

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

- Ensure the pump head is installed on a stable, level surface.
- Verify all connections, including motor pulley and belt, are correctly aligned and tightened before operation.
- Always fill the pump head with the appropriate engine oil to the specified level before initial startup.
- Confirm the rotation direction of the pump head is clockwise. Adjust immediately if it rotates counter-clockwise.
- The machine generates high temperatures during operation. Avoid direct contact with hot surfaces to prevent burns.
- Disconnect power before performing any maintenance or adjustments.
- Wear appropriate personal protective equipment (PPE) such as eye protection and hearing protection.
- Do not operate the pump head in explosive atmospheres or near flammable materials.
- Keep children and unauthorized personnel away from the operating area.

3. SETUP AND INSTALLATION

Follow these steps for proper installation of the air compressor pump head:

1. **Placement:** When positioning the pump head, ensure the motor pulley and the belt pulley are in the same straight line. Proper alignment minimizes vibration during operation.
2. **Secure Fasteners:** Tighten all screws, including those for the base and the pulley. Ensure all components are securely mounted.
3. **Belt Tension:** After securing the screws, check the belt tension. If the belt is loose, adjust the motor position to achieve proper tension. Reinstall the belt once the motor is in the correct position and screws are tightened.
4. **Oil Filling:** Before the first start-up, the new machine must be filled with engine oil. Add engine oil until the level reaches the center of the red dot in the oil mirror.
5. **Rotation Direction:** The correct rotation direction for the pump head is clockwise. If it rotates in reverse, immediately adjust the motor wiring to correct the direction.



Figure 1: Front and side view of the LIKARVA V-0.25/8 Air Compressor Pump Head, showing the V-type cylinders, pulley, and air filters.



3HP 250L/min 115PSI Air Compressor PumpHead



Figure 2: Side view of the pump head, highlighting the air filter and pulley mechanism.

4. OPERATING INSTRUCTIONS

Once the pump head is correctly installed and filled with oil, it is ready for operation. Connect the pump head to a suitable power source and ensure all safety measures are in place.

- **Initial Start-up:** After ensuring proper oil level and belt tension, power on the motor. Observe the pump head for any unusual noises or vibrations.
- **Pressure Monitoring:** Monitor the discharge pressure to ensure it operates within the specified range (up to 115 PSI).
- **Heat Generation:** Be aware that the operation of the machine will produce high temperatures. Avoid touching

the pump head during and immediately after operation to prevent burns.

- **Shutdown:** To stop operation, disconnect the power supply to the motor.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your air compressor pump head.

1. Oil Change Schedule:

- First oil change: After the first half month of operation.
- Second oil change: After one and a half months of operation.
- Subsequent oil changes: Every two to three months under normal operating conditions.

2. Air Filter Replacement:

- Under normal conditions: Replace the air filter every two to three months.
- In dusty or poor environments: Replace the air filter monthly.

3. General Inspection: Regularly inspect the pump head for any signs of wear, leaks, or damage. Ensure all fasteners remain tight.



Figure 3: Close-up view showing the flexible hose connecting the cylinders and one of the air filters, critical components for maintenance.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your air compressor pump head.

Problem	Possible Cause	Solution
Pump head does not start or runs slowly.	Insufficient power supply; Motor issue; Belt too loose.	Check power connection and voltage; Consult a qualified technician for motor inspection; Adjust belt tension.
Low air output or pressure.	Clogged air filter; Leaks in air lines; Worn piston rings.	Replace air filter; Inspect and seal all connections; Consult a technician for internal repairs.
Excessive vibration.	Misaligned motor and pump pulleys; Loose mounting bolts.	Ensure pulleys are in a straight line; Tighten all mounting screws.

Problem	Possible Cause	Solution
Oil leakage.	Loose oil drain plug; Damaged seals or gaskets; Overfilled oil.	Tighten drain plug; Inspect and replace seals/gaskets; Drain excess oil to correct level.
Pump head runs hot.	Normal operation (some heat is expected); Insufficient ventilation; Low oil level.	Ensure adequate airflow around the unit; Check and top up oil level; Allow for cooling periods.

7. SPECIFICATIONS

Technical specifications for the LIKARVA V-0.25/8 Air Compressor Pump Head:

Model: V-0.25/8

Power: 2200W (3HP)

Cylinder Configuration: 65 * 2 (V-type, 2-Cylinder)

Exhaust Capacity: 250 L/Min (8.8 cfm)

Discharge Pressure: 8 Bar (115 PSI)

Speed: 1050 rpm

Product Size (L x W x H): 34 x 26 x 33 cm (13.4 x 10.2 x 13 inches)

Net Weight: 13.5 kg

Gross Weight: 16.08 kg

Brand: LIKARVA

Power Source: Air-powered (requires external motor)

Included Components: Filters

Material: Metal

UPC: 749767466611

Usage: Drilling, Air Brushing, Spraying, Nailing (when connected to a complete air compressor system)

Note: If the motor speed is 2880rpm, the diameter of the motor wheel should be 10 cm. If the motor speed is 1440rpm, the motor wheel should be 20 cm.



Figure 4: Diagram showing the key dimensions of the LIKARVA V-0.25/8 Air Compressor Pump Head.

8. WARRANTY AND SUPPORT

Warranty information for the LIKARVA V-0.25/8 Air Compressor Pump Head is not provided in this manual. Please refer to the product packaging or contact your retailer for details regarding warranty coverage. For technical support, parts, or service inquiries, please contact the seller or manufacturer directly using the contact information provided at the point of purchase or on the product packaging.