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> YONG HENG YH-QB01 4500 PSI High-Pressure Air Compressor User Manual

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Model: YH-QB01

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, maintenance, and troubleshooting of your YONG HENG YH-QB01 4500 PSI High-Pressure Air Compressor. Please read this manual thoroughly before using the compressor to ensure proper function and to prevent injury or damage.

30MPA AIR COMPRESSOR

4500PSI HIGH-PRESSURE



Figure 1.1: The YONG HENG YH-QB01 4500 PSI High-Pressure Air Compressor. This unit is designed for high-pressure applications such as filling PCP air rifles, airguns, and small scuba tanks.

The YH-QB01 is a 110V electric-powered compressor featuring a 1.8KW motor, two-stage compression, and water-oil separators for stable performance. It is capable of reaching pressures between 1500-4500 PSI (100-300 BAR) with an air flow rate of 40-50L/min. The unit incorporates a water cooling system and an automatic shut-off mechanism for safety.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in serious injury, death, or property damage.

- Always operate the compressor in a well-ventilated area.
- Ensure the compressor is placed on a stable, level surface to prevent vibration-related issues.
- **Water Cooling is Mandatory:** Before starting, ensure the water cooling system is properly set up and functioning. The water container should hold no less than 20 liters (5 gallons) of water. Replace or circulate cooling water to maintain temperature below 80°C (167°F).
- **Oil Level:** Always check the oil level before each use. Use ISO VG46 or AW 46 compressor oil. Maintain the oil level within the specified range.

- **Operating Time:** Do not operate the compressor for more than 30 minutes continuously. Allow the unit to cool down if the temperature exceeds 80°C (167°F). The automatic shut-off feature will activate if the temperature becomes too high.
- **Pressure Limits:** Never exceed the maximum working pressure of 4500 PSI (300 BAR).
- **Moisture Management:** High-pressure air can contain moisture. Consider using an external air dryer to prevent moisture from entering your equipment, which can cause damage.
- **Electrical Safety:** Connect the compressor to a grounded 110V power outlet. Do not use damaged power cords or adapters.
- **Hearing Protection:** The compressor can generate noise up to 85dB. Wear appropriate hearing protection during operation.
- Keep children and unauthorized personnel away from the operating compressor.
- If the motor sounds strained, immediately turn off the compressor and investigate the cause.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon unpacking:

- YONG HENG YH-QB01 Air Compressor Unit
- Air Hose with 8mm Quick Connect Fitting
- Power Cord
- Water Pump and Hoses for Cooling System
- Spare O-rings and Seals (quantity may vary)
- User Manual (this document)

4. SETUP

Follow these steps to prepare your compressor for first use:

1. **Unpacking and Placement:** Remove all packaging materials. Place the compressor on a firm, level, and stable surface in a well-ventilated area. The unit dimensions are approximately 13.9"L x 7.3"W x 14.5"H, with a weight of approximately 47.5 lbs.



Figure 4.1: Product dimensions and weight for proper placement and handling.

2. **Oil Filling:** Locate the oil filler cap and dipstick. Fill the compressor with ISO VG46 or AW 46 compressor oil until the level is within the specified range on the dipstick. Do not overfill.



Figure 4.2: Close-up view of the oil level indicator. Ensure the oil level is correct before operation.

- Water Cooling System Setup:** Prepare a container with at least 20 liters (5 gallons) of clean water. Connect the provided water pump and hoses to the compressor's cooling inlets and outlets, ensuring the pump is submerged in the water container. This system is crucial for dissipating heat during operation.

COOLING: WATER COOLED



Figure 4.3: Side view of the compressor highlighting the water cooling connections. An external water source is required for operation.

4. **Air Hose Connection:** Connect the high-pressure air hose to the compressor's 8mm quick connect fitting. Ensure a secure connection to prevent air leaks.
5. **Power Connection:** Plug the power cord into a standard 110V grounded electrical outlet.

5. OPERATING INSTRUCTIONS

Once setup is complete, follow these steps for operation:

1. **Pre-Operation Check:** Double-check oil level, water cooling system functionality, and all hose connections for security.
2. **Connect Device:** Connect the device you wish to fill (e.g., PCP air rifle tank, scuba tank) to the compressor's air hose.
3. **Power On:** Flip the power switch to the 'ON' position. The compressor will begin to operate.



Figure 5.1: Close-up of the power switch and digital display for monitoring operation.

- 4. Monitor Pressure:** Observe the pressure gauge. The compressor will fill at a rate of approximately 1 liter per 7 minutes. Do not exceed the target pressure of your device or the compressor's maximum pressure of 4500 PSI (300 BAR).



Figure 5.2: Detail of the pressure gauge, indicating current operating pressure in BAR and PSI.

5. **Monitor Temperature:** Continuously monitor the compressor's temperature. If the temperature reaches 80°C (167°F), the automatic shut-off will activate. If this occurs, turn off the compressor, allow it to cool, and replace the cooling water if necessary before resuming operation.
6. **Shut Down:** Once the desired pressure is reached, turn off the compressor using the power switch. Disconnect the air hose from your device and then from the compressor.
7. **Drain Moisture:** After each use, drain any accumulated moisture from the compressor's water/oil separator to maintain performance and prevent corrosion.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your compressor.

- **Oil Change:** Change the compressor oil regularly, typically after every 20-30 hours of operation, or as indicated by the oil's condition. Always use recommended ISO VG46 or AW 46 compressor oil.
- **Cooling Water:** Regularly inspect and replace the cooling water. Ensure the water pump is free of debris and functioning correctly.
- **Water/Oil Separator:** Clean or replace the filter elements in the water/oil separator as needed to ensure efficient moisture and oil removal.
- **Hose and Connections:** Periodically inspect all hoses and connections for wear, cracks, or leaks. Replace any

damaged components immediately.

- **General Cleaning:** Keep the exterior of the compressor clean and free of dust and debris to ensure proper airflow for cooling.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Compressor does not start	No power; faulty switch; motor issue.	Check power connection and outlet. Ensure switch is ON. If problem persists, contact support.
Compressor overheats and shuts off	Insufficient cooling water; prolonged operation; blocked cooling fins.	Ensure adequate cooling water (min. 20L). Allow unit to cool. Clean cooling fins. Reduce continuous operating time.
Low pressure output or slow filling	Air leak; worn seals/O-rings; clogged filter.	Check all connections for leaks. Inspect and replace worn seals/O-rings. Clean or replace water/oil separator filter.
Excessive vibration or unusual noise	Loose components; uneven surface; internal issue.	Ensure compressor is on a stable, level surface. Check for loose bolts or connections. If noise persists, discontinue use and contact support.
Thermometer/Digital Display not working	Sensor malfunction; display unit failure.	Contact customer support for diagnosis and potential replacement parts.

8. SPECIFICATIONS

Detailed technical specifications for the YONG HENG YH-QB01 Air Compressor:

- **Model:** YH-QB01
- **Manufacturer:** YONG HENG
- **Voltage:** 110V
- **Power:** 1.8KW (1800 Watts)
- **Motor Horsepower:** 2.41 HP
- **Inflating Speed:** 2800 R/MIN
- **Air Flow Rate:** 40-50 L/MIN (1.5-1.8 CFM)
- **Filling Time (1L Tank):** Approximately 7 minutes
- **Working Pressure:** 100-300 BAR (1500-4500 PSI)
- **Compression Stage:** Two Stage
- **Lubrication Mode:** Splash Type
- **Material of Cover:** Cast Aluminum
- **Noise Level:** Max 85dB (Typical 78dB)
- **Cooling System:** Water Cooling
- **Shut Down:** Manual stop / Automatic stop (over-temperature protection)
- **Pressure Indication:** Gauge
- **Filtration:** Water/oil separator

- **Lubricating Oil:** ISO VG46 or AW 46
- **Air Hose Connection:** 8mm quick connect fitting
- **Item Dimensions (L x W x H):** 13.9" x 7.3" x 14.5"
- **Recommended Uses:** Air Rifle, Paintball

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please contact the seller or manufacturer directly. Keep your purchase receipt as proof of purchase.