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› DOLUNTO YH-QB01 High Pressure Air Compressor User Manual (110V/220V, 300BAR/4500PSI)

DOLUNTO YH-QB01

DOLUNTO YH-QB01 High Pressure Air Compressor User Manual

Model: YH-QB01 | Brand: DOLUNTO

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your DOLUNTO YH-QB01 High Pressure Air Compressor. This compressor is designed to compress atmospheric air to pressures of 20/30 MPa (3000/4500 PSI), discharging clean air that meets GB18435-2001 air quality standards after purification and separation by its integrated filter system.

Important Safety Notice: Always ensure the lubricant is added before operation. The pressure setting must not exceed 4500 PSI (310 BAR). There is a potential risk of pipe burst or fitting blow-off under high pressure; therefore, maintain a safe distance from the compressor during operation. Never leave the compressor unattended while it is running; always monitor it until it reaches the desired pressure and stops.

2. PRODUCT OVERVIEW AND COMPONENTS

The DOLUNTO YH-QB01 High Pressure Air Compressor is a robust unit designed for reliability and performance. Familiarize yourself with its main components for proper operation and maintenance.

220V SET PRESSURE VERSION



Figure 2.1: DOLUNTO YH-QB01 High Pressure Air Compressor (220V Set Pressure Version).

STRUCTURE

3.1 Main components

- ① power on/off ⑪ oil replace drain
- ② temperature gauge ⑫ high pressure hose
- ③ siren ⑬ oil/water filter
- ④ pressure gauge ⑭ quick connector
- ⑤ water outlet ⑮ intake air filter
- ⑥ water inlet ⑯ drain valve
- ⑦ explosion-proof valve ⑰ 1st safety valve
- ⑧ breather /oil inject ⑱ overload protection
- ⑨ pressure relief valve ⑳ power cord socket
- ⑩ oil level gauge ㉑ water pump power socket

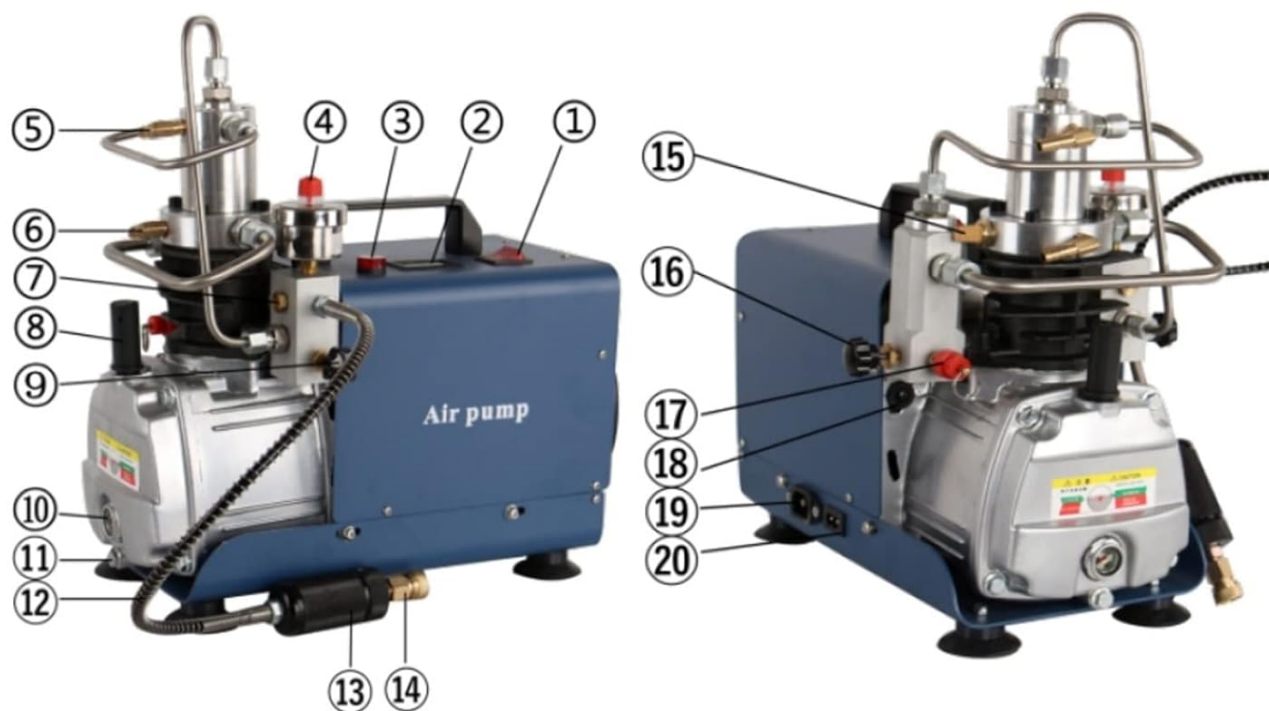


Figure 2.2: Main components of the DOLUNTO YH-QB01 Air Compressor. This diagram labels key parts for identification and understanding.

Main Components List:

1. Power On/Off Switch
2. Oil Replace Drain
3. Temperature Gauge
4. High Pressure Hose
5. Siren (Oil/Water Filter)
6. Pressure Gauge
7. Quick Connector
8. Water Outlet
9. Intake Air Filter
10. Water Inlet
11. Drain Valve
12. Explosion-Proof Valve
13. 1st Safety Valve
14. Breather (Oil Inject) / Overload Protection
15. Pressure Relief Valve
16. Power Cord Socket
17. Oil Level Gauge

3. SETUP

Before operating the compressor, ensure all components are correctly assembled and safety checks are performed.

3.1 Unpacking and Initial Inspection

Carefully remove the compressor and all accessories from the packaging. Inspect for any visible damage that may have occurred during shipping. Ensure all listed components are present.



Figure 3.1: The DOLUNTO YH-QB01 Air Compressor with its included accessories, such as hoses, filters, and power adapter.

3.2 Lubricant Installation

The compressor is shipped without oil. **It is critical to add ISO VG46 Anti-Wear Hydraulic Oil (or AW 46) before the first use.** Locate the oil fill port and fill to the appropriate level indicated by the oil level gauge. Double-check the lubricant oil has been added before running the unit.

3.3 Power Connection

Connect the appropriate power cord to the compressor's power cord socket. Ensure the voltage matches your local power supply (110V 60Hz or 220V 50Hz). The compressor supports single-phase electric motors.

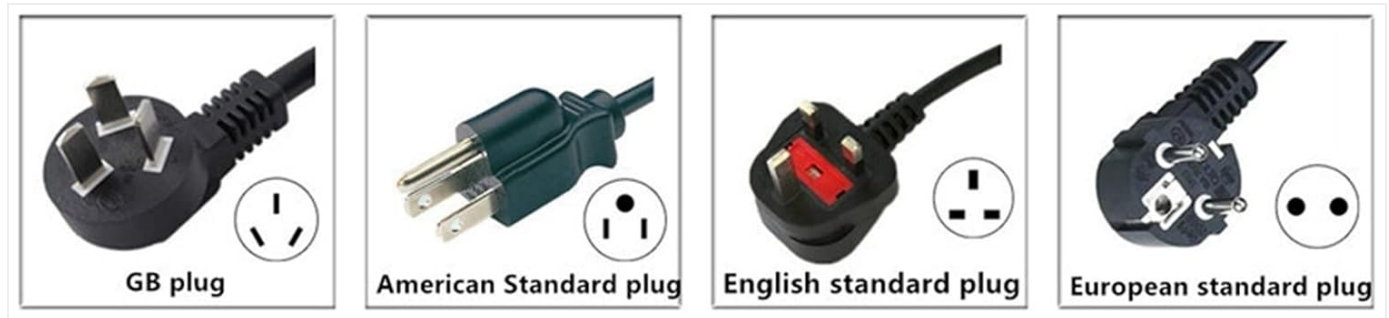


Figure 3.2: Examples of different power plug types. Use the plug compatible with your region.

3.4 Connecting the Air Hose

Attach the 8mm quick connect fitting of the air hose to the compressor's air outlet. Ensure a secure connection to prevent leaks during operation.

4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your high-pressure air compressor.

4.1 Pre-Operation Checks

- Verify lubricant oil level is correct.
- Ensure all connections (power, air hose) are secure.
- Confirm the pressure setting is below 4500 PSI (310 BAR).
- Position the compressor in a well-ventilated area.

4.2 Starting the Compressor

Turn on the power switch. The compressor will begin to operate. Monitor the pressure gauge closely.

4.3 Filling Tanks

The compressor is capable of quickly filling tanks:

- Approximately 3 minutes 50 seconds to fill a 0.45L tank to 30 MPa.
- Approximately 8 minutes to fill a 1L tank to 300 BAR.

4.4 Monitoring and Stopping

Never leave the compressor unattended. Continuously monitor the pressure gauge. The compressor features:

- **Manual Stop:** You must manually turn off the compressor once the desired pressure is reached.
- **Automatic Stop (Optional):** For models equipped with automatic stop, the compressor will automatically shut down when the set pressure (e.g., 30 MPa) is reached. Even if the target pressure is not 30 MPa, this feature acts as a safety limit.

For safety, always keep eyes on it until it reaches rated pressure and needs to stop.

Working process

Atmosphere air is compressed through two stage cylinder to reach 20Mpa/30Mpa ,3000/4500 psi. And the air is filtrated by oil and moisture separator before filling in tanks. The condensate and oil are separate from air and drain from separator.

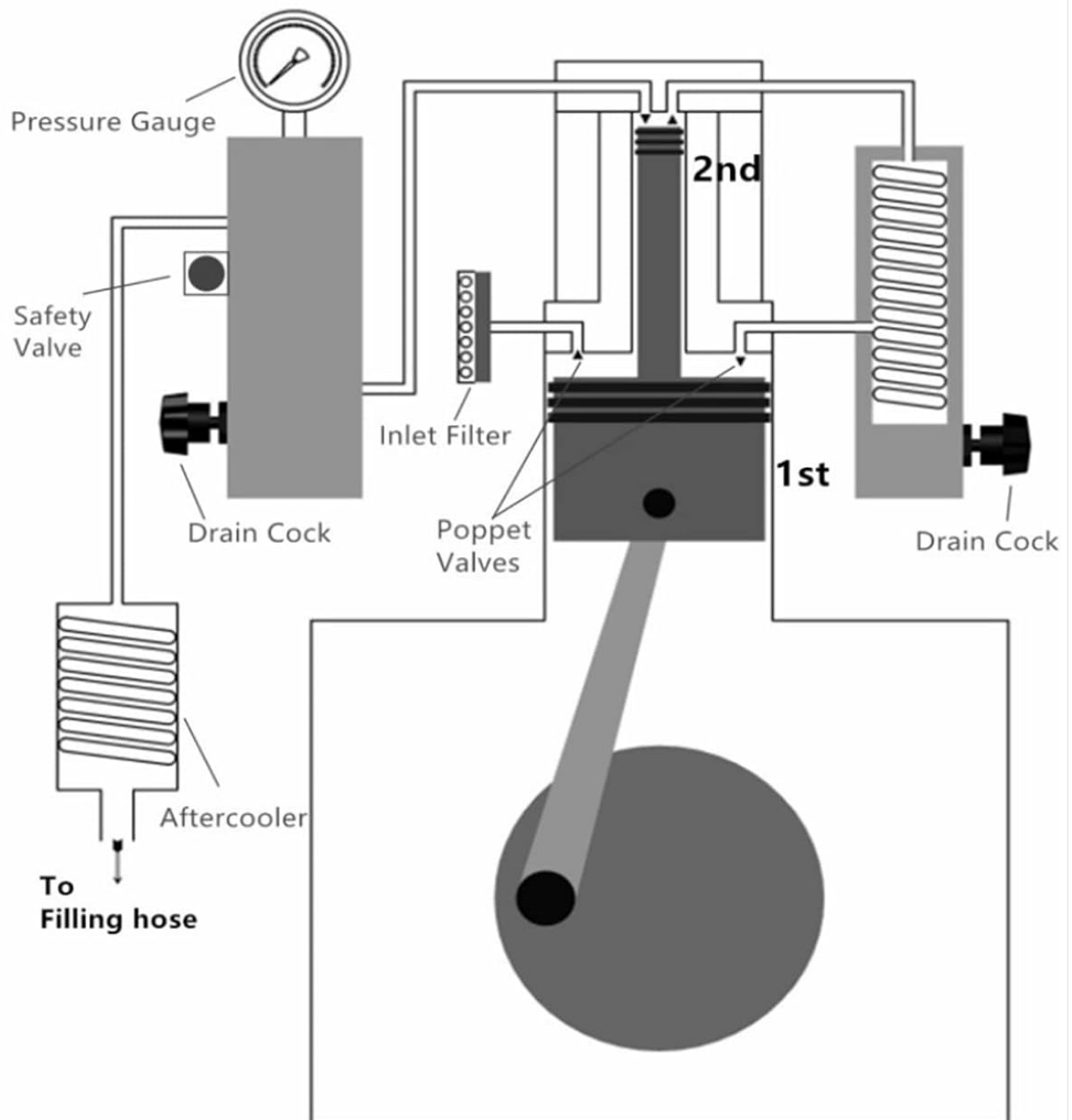


Figure 4.1: Working process diagram. Atmospheric air is compressed through a two-stage cylinder to reach 20MPa/30MPa (3000/4500 PSI). The air is filtered by oil and moisture separators before filling tanks. Condensate and oil are separated from air and drained from the separator.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your compressor.

5.1 Lubricant Management

Use only ISO VG46 Anti-Wear Hydraulic Oil or AW 46. Regularly check the oil level using the oil level gauge and replenish as

needed. Refer to the "Oil Replace Drain" component (Figure 2.2) for oil changes.

5.2 Filter and Separator

The compressor features a filter and separator system to purify the air. Regularly inspect and clean or replace the intake air filter and the oil/water separator components to maintain air quality and compressor efficiency. The condensate and oil should be drained from the separator periodically.

5.3 General Cleaning

Keep the exterior of the compressor clean and free from dust and debris to ensure proper cooling and operation.

6. TROUBLESHOOTING

This section provides guidance for common issues. For problems not listed, contact customer support.

- **Compressor does not start:** Check power connection, ensure the power switch is in the "On" position. Verify the correct voltage supply.
- **Low pressure output:** Inspect all hose connections for leaks. Check the intake air filter for blockages. Ensure proper oil level.
- **Unusual noise or vibration:** Immediately turn off the compressor. Check for loose components or foreign objects. Ensure the compressor is on a stable, level surface.
- **Overheating:** Ensure the cooling system (water-cooled) is functioning correctly and there is adequate ventilation around the unit. Check water levels if applicable.

Safety Reminder: Always disconnect power before performing any inspection or maintenance. If you suspect a serious malfunction, do not attempt to repair it yourself; seek professional assistance.

7. SPECIFICATIONS

Technical data for the DOLUNTO YH-QB01 High Pressure Air Compressor.

Feature	Specification
Model	YH-QB01
Charging Rate	40-50 L/min; 1.5-1.8 cfm
Working Pressure	100-300 bar (1500-4500 psi)
Stages and Cylinders	2
Electric Motor	220V 50Hz / 110V 60Hz, Single Phase
Cooling System	Water Cooled
Shutdown	Manual Stop / Automatic Stop (Optional)
Pressure Indication	Gauge
Filtration	Water/Oil Separator
Lubricating Oil	ISO VG46 or AW 46 Anti-Wear Hydraulic Oil
Dimensions (L x W x H)	360 x 200 x 380 mm
Weight	18 kg (approx. 39.7 lbs)
Noise Level	Less than 78 dB(A)

Feature	Specification
Air Hose Connection	8mm Quick Connect Fitting
Included Components	Filters

The compressor’s construction features high strength and hardness, ensuring good wear resistance and durability.

8. WARRANTY AND SUPPORT

Specific warranty details for the DOLUNTO YH-QB01 High Pressure Air Compressor are not provided in this manual. Please refer to your purchase documentation or contact the retailer/manufacturer directly for warranty information and customer support. Keep your proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question