TUXING Compresor sumergible

TUXING 4500Psi PCP Air Compressor User Manual

Model: Compresor sumergible

Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your TUXING 4500Psi PCP Air Compressor. Please read this manual thoroughly before operating the compressor to ensure proper usage and to prevent damage or injury.
The TUXING 4500Psi PCP Air Compressor is designed to provide high-quality compressed air for various applications, including diving, firefighting, outdoor construction, pipeline welding, and filling PCP rifle and paintball tanks. It features a four-cylinder high-pressure system capable of reaching 3000-4500psi and includes a 3+1 level filtration system to ensure breathing air standards are met.

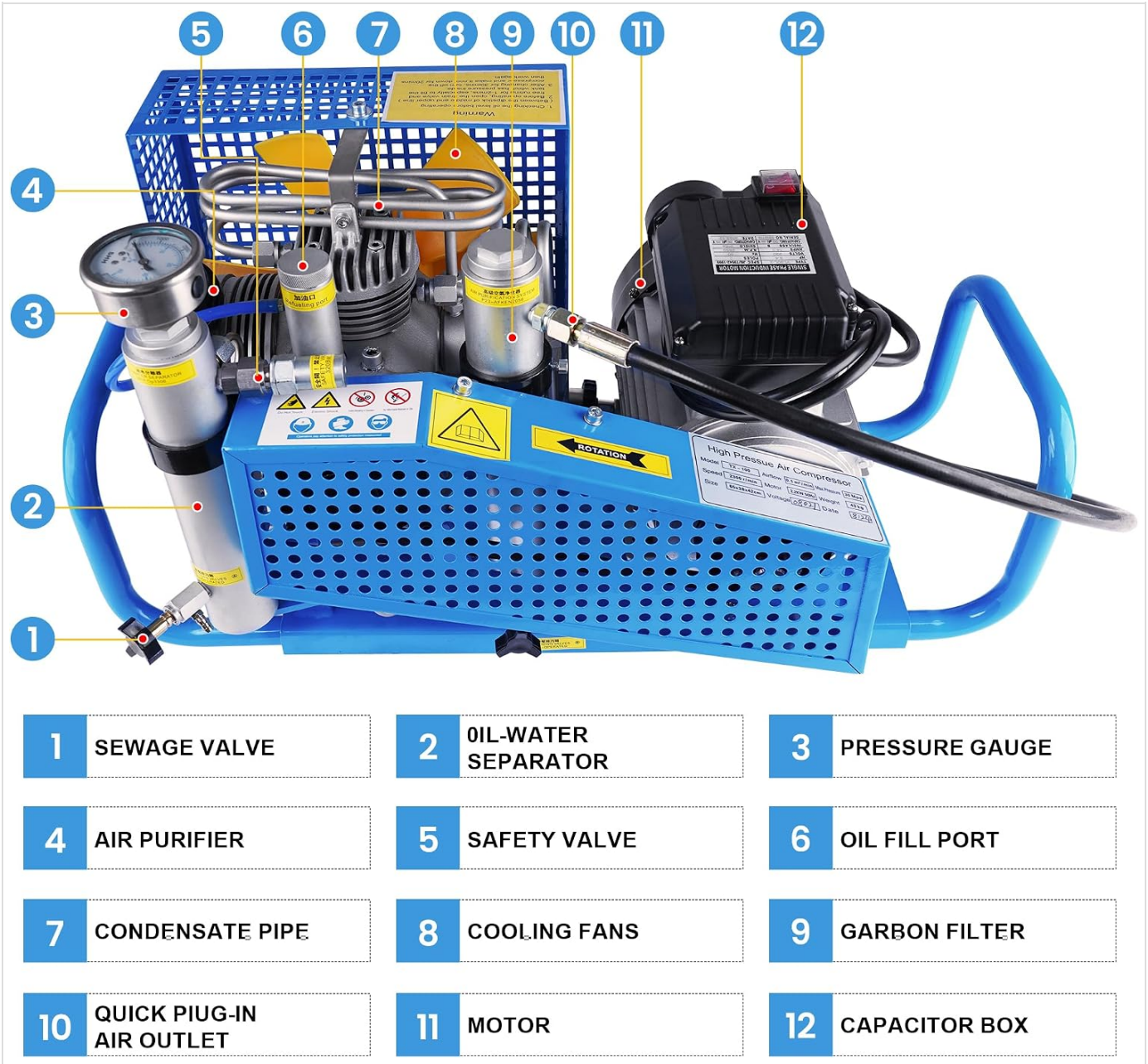
Safety Information

Always prioritize safety when operating high-pressure equipment. Failure to follow safety instructions can result in serious injury or death.

- Ensure the compressor is placed on a stable, level surface in a well-ventilated area.
- Do not operate the compressor near flammable materials or in explosive atmospheres.
- Always wear appropriate personal protective equipment (PPE), including eye protection and hearing protection.
- Verify that the power supply matches the compressor's requirements (110V, 60Hz, 30A).
- Regularly check all connections for leaks before and during operation.
- Do not touch hot surfaces during or immediately after operation.
- Ensure proper lubrication with recommended ISO grade 100/150 oil.
- Never exceed the maximum operating pressure of 4500Psi (300 Bar). The safety valve will automatically release pressure if exceeded.
- Keep children and unauthorized personnel away from the operating compressor.

Components Overview

Familiarize yourself with the main components of your TUXING Air Compressor:



This image displays a detailed, labeled diagram of the TUXING 4500Psi PCP Air Compressor, highlighting its various parts for easy identification and understanding. Key components include the sewage valve, oil-water separator, pressure gauge, air purifier, safety valve, oil fill port, condensate pipe, cooling fans, carbon filter, quick plug-in air outlet, motor, and capacitor box.

1. **Sewage Valve:** Used to drain accumulated water and impurities.
2. **Oil-Water Separator:** Separates oil and water from the compressed air.
3. **Pressure Gauge:** Displays the current operating pressure.
4. **Air Purifier:** Contains filtration elements to purify the air.
5. **Safety Valve:** Automatically releases pressure if it exceeds safe limits.
6. **Oil Fill Port:** Location for adding lubricating oil.
7. **Condensate Pipe:** Channels condensed moisture away from the system.
8. **Cooling Fans:** Dissipate heat generated during compression.
9. **Carbon Filter:** Part of the filtration system for air purification.

10. **Quick Plug-in Air Outlet:** Connection point for filling hoses.
11. **Motor:** Powers the compressor.
12. **Capacitor Box:** Houses electrical components for the motor.

Setup

Proper setup is crucial for safe and effective operation.

1. Unpacking and Inspection

- Carefully remove the compressor from its packaging.
- Inspect the unit for any visible damage that may have occurred during shipping. Report any damage to the supplier immediately.
- Ensure all components listed in the packing list are present.

2. Placement

- Place the compressor on a firm, level, and stable surface.
- Ensure adequate ventilation around the unit to prevent overheating. Maintain at least 12 inches (30 cm) of clear space on all sides.
- Keep the compressor away from direct sunlight, rain, and excessive dust.

3. Lubrication

- Before first use, fill the compressor with the recommended ISO grade 100/150 lubricating oil. Refer to the oil fill port (Component 6 in the diagram).
- Check the oil level before each use and top up as necessary.

4. Electrical Connection

- Connect the compressor to a dedicated 110V, 60Hz power outlet with a 30 Amp circuit.
- Ensure the electrical connection is secure and free from damage.

5. Hose Connection

- Connect the high-pressure filling hose to the quick plug-in air outlet (Component 10).
- Connect the other end of the filling hose to the tank or device you intend to fill. Ensure all connections are tight and secure.

Operating Instructions

Follow these steps for safe and efficient operation.

1. Pre-Operation Checklist

- Confirm proper oil level.
- Ensure all hose connections are secure.
- Verify the tank to be filled is rated for the desired pressure.

- Check that the drain valves (sewage valve and oil-water separator drain valve) are closed.

2. Starting the Compressor

- Turn on the power switch. The compressor motor will start.
- Monitor the pressure gauge (Component 3) as the tank fills.

This image illustrates the TUXING Air Compressor's efficiency, highlighting its four-stage compression cylinder and fast inflation speed. It shows that a 6.8L tank can be filled to 300 Bar in 21 minutes, and a 12L tank can be filled to 200 Bar in 25 minutes, demonstrating its capability to reach a maximum pressure of 4500Psi/300Bar/30Mpa.

3. Filling Tanks

- Fill tanks gradually to avoid excessive heat buildup.
- For models with manual shutoff, turn off the compressor once the desired pressure is reached or the maximum pressure of 4500Psi is achieved.
- For models with automatic shutoff, the compressor will stop automatically when the set pressure is reached.
- The safety valve will automatically leak air if the pressure exceeds the safe limit.

4. Post-Operation

- After filling, turn off the compressor.
- Slowly open the drain valves (Component 1 and the oil-water separator drain valve) to release any residual pressure and drain condensed moisture.
- Disconnect the filling hose from the tank and the compressor.

Maintenance

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

1. Oil Changes

- Change the lubricating oil after the first 20 hours of operation, then every 50 hours or as recommended by the oil manufacturer.
- Use only ISO grade 100/150 compressor oil.

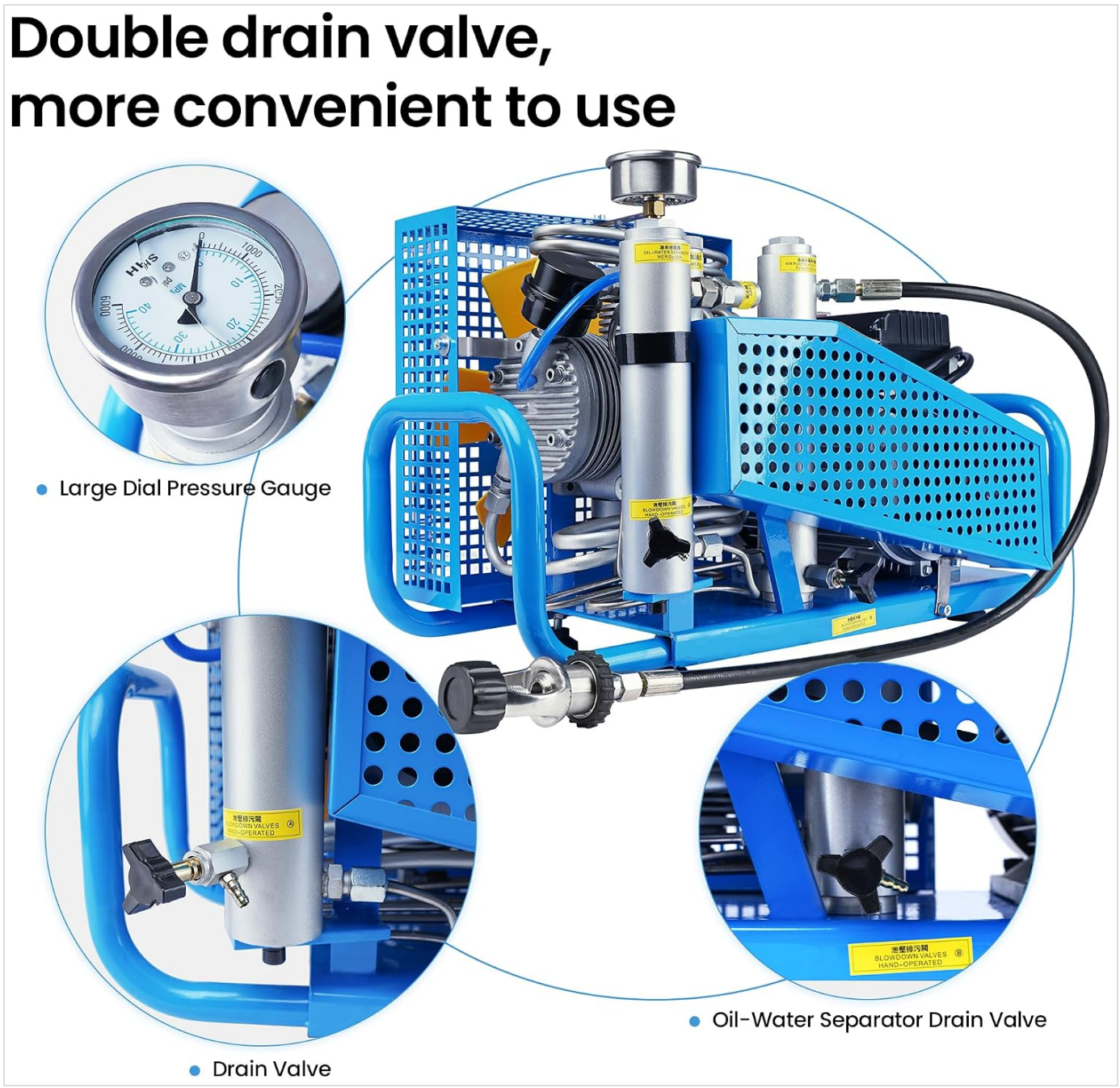
2. Filter Replacement

- The compressor features a 3+1 level filtration system (Air Purifier, Component 4, and Carbon Filter, Component 9).
- Regularly inspect and replace the filter elements (molecular sieve, activated carbon) to ensure air quality meets EN12021 and GB18435-2001 breathing air standards.
- Replacement frequency depends on usage and environmental conditions. Replace immediately if air quality degrades.

This image highlights the triple filter material used in the TUXING air compressor, which includes molecular sieve and activated carbon. This advanced filtration system ensures the air is purified to meet the EN12021 EN standard for breathing air.

3. Draining Condensate

- Drain the condensate from the sewage valve (Component 1) and the oil-water separator drain valve after each use.
- This prevents moisture buildup and corrosion within the system.



This image showcases the TUXING Air Compressor's double drain valve system, designed for more convenient use. It points out the large dial pressure gauge, the main drain valve, and the oil-water separator drain valve, emphasizing ease of maintenance.

4. General Cleaning

- Keep the exterior of the compressor clean and free of dust and debris.
- Ensure cooling fan vents are clear for optimal airflow.

Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Compressor does not start.	No power supply; tripped circuit breaker; faulty switch.	Check power connection; reset circuit breaker; contact customer support if switch is faulty.
Low pressure output.	Air leaks in connections; clogged filter; low oil level.	Check and tighten all connections; replace filter elements; top up oil.
Excessive noise or vibration.	Loose components; insufficient lubrication; worn parts.	Inspect for loose parts and tighten; check oil level and quality; contact customer support for worn parts.
Overheating.	Poor ventilation; prolonged operation; low oil level.	Ensure adequate ventilation; allow compressor to cool down; check and top up oil.
Air quality issues (e.g., oily air).	Clogged oil-water separator; incorrect oil type; saturated filter.	Clean or replace oil-water separator; use recommended ISO grade 100/150 oil; replace filter elements.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact TUXING customer support.

Specifications

Detailed technical specifications for the TUXING 4500Psi PCP Air Compressor.

Feature	Detail
Brand	TUXING
Model Name	diving compressor (Compresor sumergible)
Power Supply	110V single phase, 60Hz
Power	2.2KW / 3HP
Current	30 Amps (Instantaneous starting current: 30A)
Flow Rate	100 L/MIN / 3.5 CFM
Maximum Operating Pressure	20-30mpa / 200-300bar / 3000-4500psi
Noise Level	85 dB
Material	Iron
Color	Blue
Product Dimensions (L x W x H)	30.71" x 17.72" x 18.9"
Item Weight	125.4 pounds (57 Kilograms)
Hose Length	0.5 Meters
Recommended Lubricant	ISO grade 100/150 oil
Breathing Air Standard	EU EN12021 and GB18435-2001

Feature	Detail
Included Components	Built-In Water Filter
Batteries	2 LR44 batteries required (included)
UPC	789605777158

Warranty and Support

Warranty Information

Main parts of the TUXING 4500Psi PCP Air Compressor come with a 1-year warranty from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and material faults under normal use conditions.

Customer Support

For technical assistance, troubleshooting guidance, or warranty inquiries, please contact TUXING customer support. Refer to the product packaging or the official TUXING website for the most current contact information.
You can also visit the TUXING Store on Amazon for additional product information and support resources.

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

Submit question