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› [TUXING](#) /

› TUXING TXES022 PCP Air Compressor Instruction Manual

TUXING TXES022

TUXING TXES022 PCP Air Compressor Instruction Manual

Model: TXES022

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your TUXING TXES022 PCP Air Compressor. Please read this manual thoroughly before using the compressor to ensure proper function and to prevent injury or damage.

The TUXING TXES022 is a high-pressure electric air compressor designed for various applications, including filling PCP air rifles, paintball guns, and small scuba tanks. It features a dual cooling system (water and fan) and adjustable pressure settings up to 30Mpa (4500 PSI / 300 Bar).

WIDE APPLICATION



PCP AIR RIFLE



PAINTBALL



DIVING



Image 1.1: The TUXING TXES022 compressor is suitable for a wide range of high-pressure air applications.

2. SAFETY INFORMATION

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

- Always operate the compressor in a well-ventilated area.
- Ensure the compressor is placed on a stable, level surface.
- Do not exceed the maximum operating pressure of 30Mpa (4500 PSI / 300 Bar).
- Monitor the compressor temperature; it should not exceed 85°C (185°F). If the temperature approaches this limit, turn off the compressor and allow it to cool.
- The running time should not exceed 45 minutes continuously. Allow for a cooling period after extended use.
- **Critical Safety Step:** Before starting the machine, you must replace the oil plug with the breathing rod (breather valve). Failure to do so will cause internal pressure buildup and may lead to severe damage or explosion.
- Always wear appropriate personal protective equipment, including eye protection, when operating the compressor.

- Keep children and unauthorized personnel away from the compressor during operation.
- Ensure all connections are secure and free of leaks before operation.

Special Attention

Explosion and safety test



Attention

Before starting the machine, you should use the breather valve to replace the oil plug; otherwise, the machine will explode.

Image 2.1: Illustration emphasizing the importance of replacing the oil plug with the breather valve before operation.

3. PRODUCT OVERVIEW

The TUXING TXES022 PCP Air Compressor is a robust unit designed for high-pressure air delivery. It integrates a powerful motor with advanced cooling and filtration systems.

3.1 Components



Image 3.1: Overview of the TUXING TXES022 PCP Air Compressor and its accessories.



Image 3.2: Labeled diagram of the TUXING TXES022 compressor's main parts.

- **Pressure Gauge:** Displays current operating pressure.
- **Power Switch:** Controls the compressor's power.
- **Built-in Filter:** Helps purify the air.
- **Manual Bleed Knob:** Releases pressure from the system.
- **Filling Hose:** Connects the compressor to the air tank/device.
- **Burst Disc:** A safety feature designed to rupture if pressure exceeds safe limits.
- **Muffler:** Reduces operational noise.
- **Breather Rod:** Replaces the oil cap during operation to allow crankcase ventilation.
- **Water Pump:** Part of the water cooling system.
- **Fan Cooling System:** Provides additional cooling.
- **Oil-Water Separator:** Filters moisture and oil from the compressed air.

OIL-WATER SEPARATOR

Provide you with clean air



**Filtering
impurities**

Image 3.3: The oil-water separator ensures clean air output by filtering impurities.

FAN COOLING SYSTEM

Fast heat Dissipation



Air-cooled



Water-cooled



Working temperature
Range:50-85°C

Image 3.4: The dual cooling system (fan and water) helps maintain optimal operating temperature.

4. SETUP

Follow these steps to prepare your TUXING TXES022 compressor for first use:

1. **Unpacking and Inspection:** Carefully remove the compressor and all accessories from the packaging. Inspect the outer packaging and the machine for any signs of damage. If damage is found, do not proceed with setup and contact customer support.
2. **Oil Filling:** The compressor does not come with silicone oil due to transportation restrictions. You will need to prepare silicone oil separately. Add silicone oil to the compressor until the level reaches the red dot on the oil sight glass.
3. **Install Breather Rod:** Locate the oil cap. Remove the oil cap and replace it with the breathing rod (breather valve). This is a critical step for safe operation.
4. **Connect Water Cooling System:** Connect the water pump to a suitable water reservoir (e.g., a bucket of water). Ensure the water pump is submerged and the water circulation lines are properly connected to the compressor.

5. **Connect Air Filter and Hose:** The compressor includes a filter and filling hose. Ensure the blue filter and hose are correctly assembled and securely connected to the compressor without any leaks.
6. **Power Connection:** Connect the compressor to a standard 110V power outlet.

5. OPERATING INSTRUCTIONS

Once the compressor is set up, follow these steps for operation:

1. **Connect to Device:** Connect the filling hose to the air tank or device you intend to fill. Ensure a secure, leak-free connection.
2. **Preset Pressure:** You can preset the desired pressure on the compressor. The maximum preset pressure is 30Mpa (4500 PSI / 300 Bar). The compressor will automatically stop once this pressure is reached.
3. **Start Water Pump:** Turn on the water pump to initiate the water cooling system.
4. **Start Compressor:** Turn on the main power switch of the compressor.
5. **Monitor Operation:** During operation, continuously monitor the pressure gauge and the compressor's temperature. The working temperature range is typically 50-85°C (122-185°F). If the temperature approaches 85°C, turn off the compressor and allow it to cool down before resuming.
6. **Inflation Speed:** For reference, the compressor can fill a 0.5L cylinder to 30Mpa in approximately 5 minutes, and a 3L cylinder to 30Mpa in about 35 minutes.
7. **Automatic Shut-off:** The compressor will automatically stop when the preset pressure is reached.
8. **Shut Down:** Once filling is complete and the compressor has stopped, turn off the compressor's power switch, then turn off the water pump. Slowly open the manual bleed knob to release any residual pressure in the system before disconnecting the filling hose.

Rapid inflation

Dual refrigeration system ---- Water and fan

--Air cylinder 0.5 liters / 4500psi / 6 minutes

--Air cylinder 3 liters / 4500psi / 35 minutes

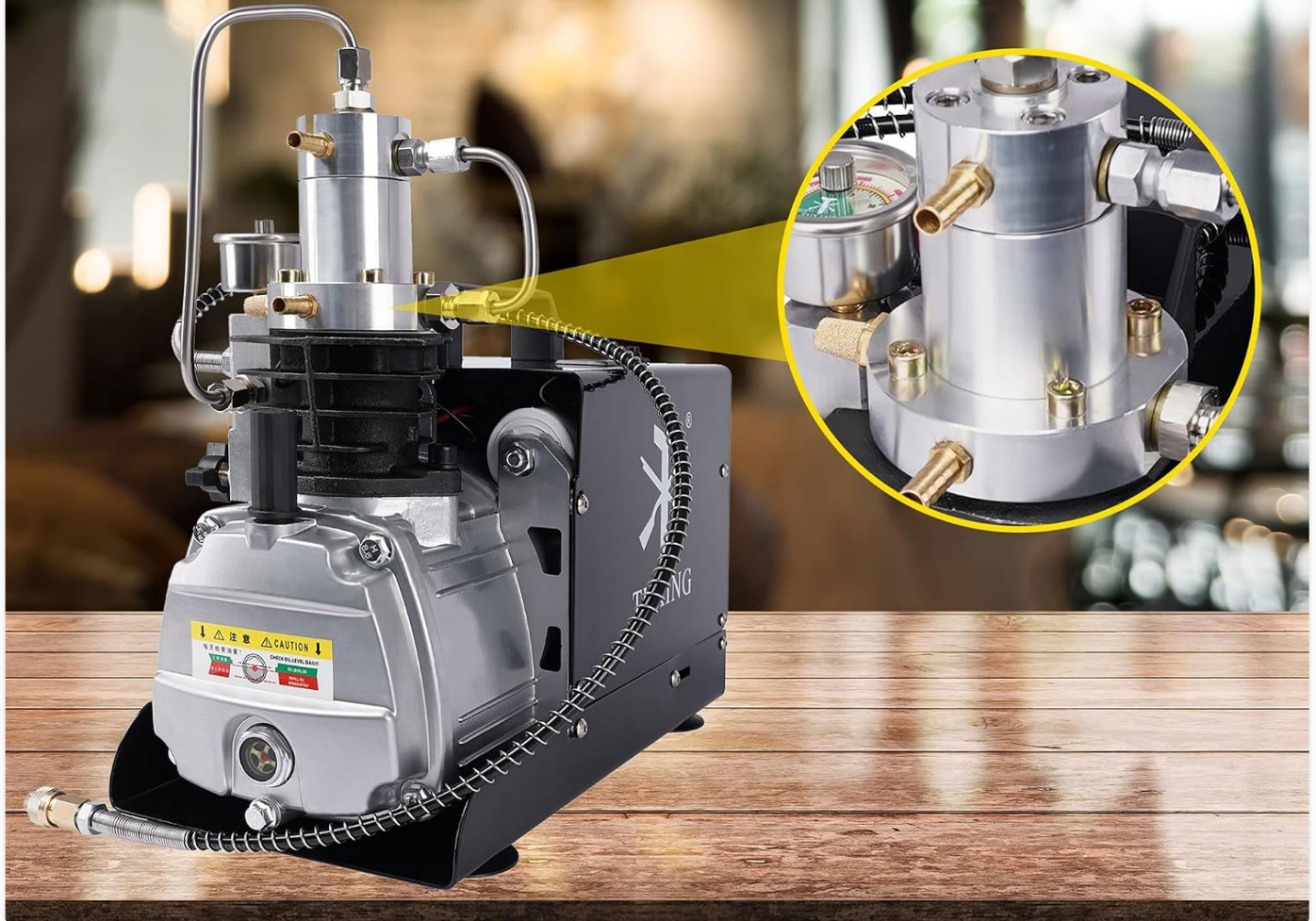


Image 5.1: The compressor offers rapid inflation with its dual cooling system.

HIGH PRESSURE PERFORMANCE

4500



PSI

Working Pressure

2800R



MIN

Inflation Rate

1800R



W

High Power



Turn off machine when required pressure reaches



Oil-water separator

Image 5.2: High-pressure performance and automatic shut-off feature for precise filling.

6. MAINTENANCE

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

- **Oil Level Check:** Regularly check the silicone oil level and refill as needed to the red dot on the sight glass.
- **Cooling System:** Ensure the water cooling system is always functioning correctly during operation. Keep the water reservoir clean and refill with fresh water as necessary. The fan cooling system should also be kept clear of obstructions.
- **Filter Replacement:** The air filter helps maintain air quality. Replace the filter elements periodically according to usage or if you notice a decrease in air quality.
- **General Cleaning:** Keep the exterior of the compressor clean and free of dust and debris.
- **Storage:** When not in use, store the compressor in a dry, clean environment.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your TUXING TXES022 compressor.

Problem	Possible Cause	Solution
Compressor does not start	No power; Power switch off; Overload protection activated.	Check power connection; Ensure switch is ON; Reset overload protection if applicable.
Slow inflation / Low pressure output	Air leaks in connections; Clogged filter; Low oil level; Worn seals.	Check all connections for leaks and tighten; Replace filter element; Top up oil; Inspect and replace seals if necessary.
Compressor overheats	Insufficient cooling water; Fan obstructed; Extended continuous operation.	Ensure water pump is working and reservoir is full; Clear fan obstructions; Allow compressor to cool down after 45 minutes of use.
Unusual noise or vibration	Loose fittings or bolts; Internal component issue.	Inspect and tighten all visible fittings and bolts; If noise persists, discontinue use and contact support.
Oil leakage	Loose oil cap/breather rod; Damaged seals.	Ensure breather rod is correctly installed and tightened; Inspect and replace seals.

8. SPECIFICATIONS

Feature	Detail
Model Name	TXES022
Brand	TUXING
Maximum Operating Pressure	300 Bars / 30 Mpa / 4500 PSI
Voltage	110 Volts
Power Source	Corded Electric
Motor Horsepower	300 Watts
Noise Level	78 Decibels
Cooling System	Water and Fan Dual Cooling
Special Feature	Automatic Shut-Off
Product Dimensions	12.99"L x 6.88"W x 13.97"H
Item Weight	19 Kilograms (41.8 pounds)
Material	Iron
Hose Length	0.5 Meters

TUXING

HIGH PRESSURE COMPRESSOR

30MPA/300BAR/4500PSI



Water-cooling Fan-cooling



Oil-water
separation



Protection
plate



Overload
protection



Set pressure
protection

TXES022

PORTABLE AND LIGHTWEIGHT



PCP AIR RIFLE



PAINTBALL GUN



DIVING



FIRE FIGHTING



Image 8.1: Key features and specifications of the TUXING TXES022 compressor.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation included with your purchase or visit the official TUXING brand store online. Keep your purchase receipt as proof of purchase.

You can visit the TUXING Store for additional product information and support: [TUXING Official Store](#)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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