

## TUXING TXES021

# TUXING TXES021 PCP Air Compressor User Manual

Model: TXES021

## 1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your TUXING TXES021 PCP Air Compressor. This high-pressure air compressor is designed for filling PCP air rifles, paintball tanks, and small scuba tanks, operating at pressures up to 4500 PSI (300 Bar). Please read this manual thoroughly before use to ensure proper function and safety.



Image 1.1: TUXING TXES021 High Pressure Air Compressor highlighting its 30MPa/300BAR/4500PSI capability, dual cooling, and oil-water separation.

## 2. SAFETY INFORMATION

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

- Always operate the compressor in a well-ventilated area.
- Ensure the compressor temperature does not exceed 85°C (185°F). Continuous operation should not exceed 45 minutes. Allow the unit to cool down between cycles.
- Before operation, ensure the breathing rod is installed in place of the oil cap. Add oil to the level of the red dot on the dipstick.
- The maximum filling pressure must not exceed 300 Bar (4500 PSI / 30 MPa). Over-pressurizing can cause explosions.
- Wear appropriate personal protective equipment, including eye protection, during operation.
- Keep children and unauthorized personnel away from the compressor during operation.
- Ensure all connections (filter, hose) are secure and leak-free before starting.
- Do not modify the compressor or its components. Use only original replacement parts.
- Disconnect power before performing any maintenance or cleaning.

## 3. PACKAGE CONTENTS

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Verify that all items listed below are present and undamaged upon unpacking:

- TUXING TXES021 PCP Air Compressor Unit
- Power Cord (110V)
- Water Pump for Cooling System
- Water Hoses
- External Oil-Water Separator Filter
- Filter Elements (replacement)
- Filling Hose with 8mm Quick Connector
- Breathing Rod (for oil reservoir)
- Spare O-rings and Gaskets
- User Manual



Image 3.1: The TUXING TXES021 compressor unit shown with its various accessories, including the power cord, water pump, hoses, filter, and spare parts.

## 4. SETUP

Follow these steps for initial setup before first use:

1. **Unpacking and Inspection:** Carefully remove the compressor and all accessories from the packaging. Inspect for any visible damage.
2. **Oil Preparation:** The compressor is shipped without silicone oil due to transportation restrictions. You must prepare and add silicone oil yourself. Locate the oil cap and replace it with the provided breathing rod. Fill the oil reservoir with appropriate compressor oil until the level reaches the red dot on the dipstick.
3. **Cooling System Connection:** Connect the water pump to the compressor using the provided water hoses. Ensure the water pump is submerged in a container of water (e.g., a bucket) during operation to facilitate water cooling.
4. **Air Filter and Filling Hose:** Connect the external oil-water separator filter to the compressor's output. Then, connect the filling hose to the filter. Ensure all connections are tight and secure to prevent air leakage.

5. **Power Connection:** Connect the 110V power cord to the compressor and then to a suitable power outlet.



Image 4.1: The TUXING TXES021 compressor demonstrating the oil-water separator for clean air, highlighting the filtering impurities function.

# OIL-WATER SEPARATOR

Provide you with clean air



Filtering impurities

Image 4.2: The TUXING TXES021 compressor showcasing its dual cooling system, featuring both air-cooled fan and water-cooled components for efficient heat dissipation.

## 5. OPERATING INSTRUCTIONS

Before operating, ensure all setup steps are completed and safety precautions are understood.

1. **Connect to Tank:** Connect the filling hose's 8mm quick connector to the tank you intend to fill (PCP air rifle, paintball tank, or scuba tank). Ensure a secure connection.
2. **Open Tank Valve:** Slowly open the valve on the tank to be filled.
3. **Start Compressor:** Turn on the power switch on the compressor. The compressor will begin to operate.
4. **Monitor Pressure and Temperature:** Continuously monitor the pressure gauge and the temperature gauge. Do not exceed the maximum rated pressure of 4500 PSI (300 Bar) for the compressor or the tank being filled. Keep the compressor's internal temperature below 85°C.
5. **Stop Compressor:** Once the desired pressure is reached, turn off the power switch on the compressor.
6. **Bleed Air:** Slowly open the manual bleed knob to release the pressure from the filling hose. This is crucial before disconnecting the tank.
7. **Disconnect Tank:** Once pressure is fully bled, close the tank valve and disconnect the filling hose from

the tank.

**Note on Filling Speed:** The 1.8KW high-power copper motor allows for efficient filling. For example, a 0.5L diving tank can be filled from 0 to 30Mpa (4500 PSI) in approximately 3 minutes.



Image 5.1: The TUXING TXES021 compressor showing the pressure gauge for monitoring and the manual stop switch for control during operation.

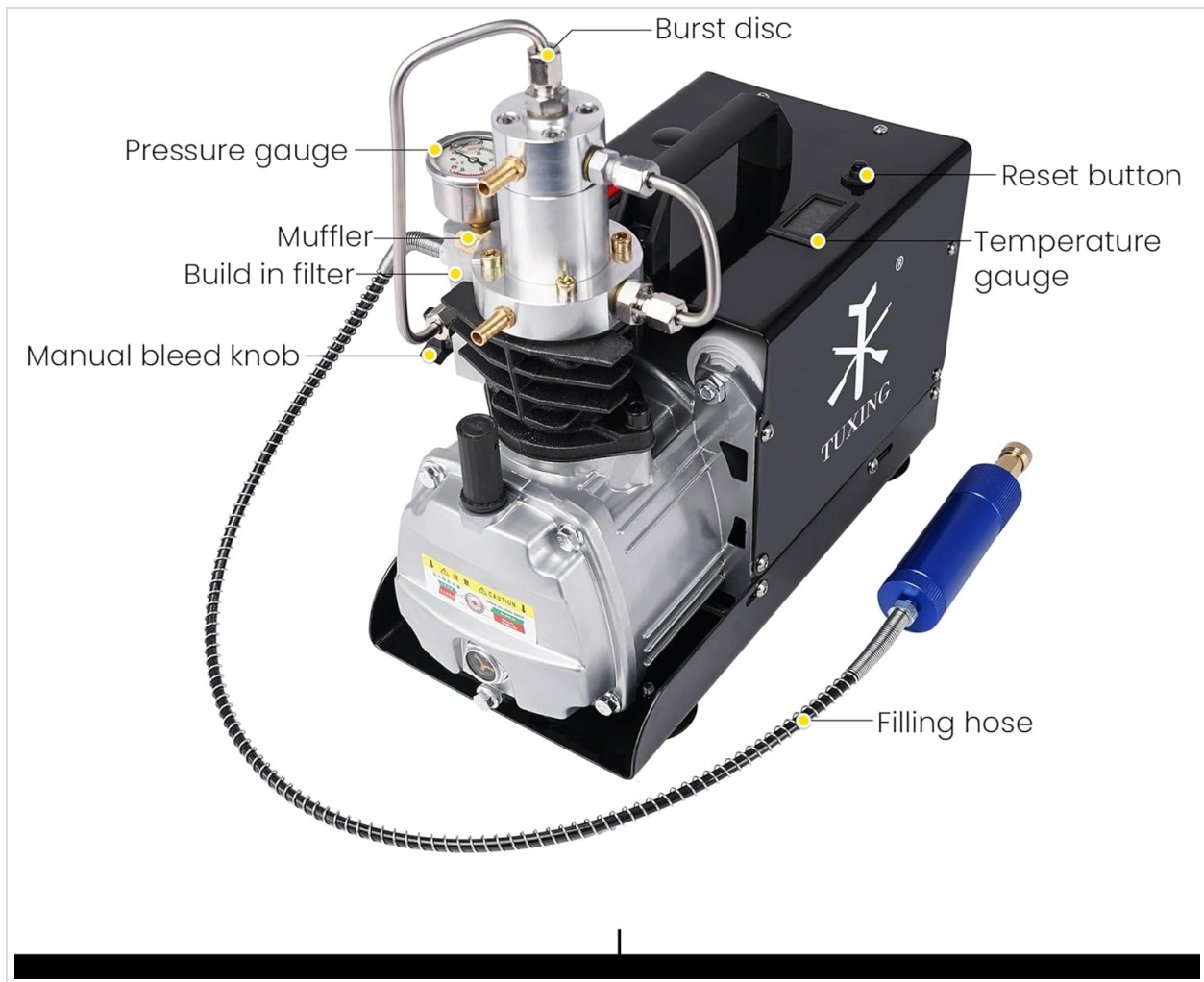


Image 5.2: The TUXING TXES021 compressor connected to a scuba tank, illustrating a typical use case for high-pressure air filling.

## 6. MAINTENANCE

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

- **Oil Level Check:** Regularly check the oil level using the dipstick. Ensure it remains at the red dot. Refill with appropriate silicone compressor oil as needed.
- **Filter Replacement:** The external oil-water separator filter elements should be replaced periodically, depending on usage and air quality. Dirty filters can reduce performance and air quality.
- **Cooling Water:** Ensure the water used for cooling is clean. Replace the water in the cooling bucket regularly to maintain cooling efficiency.
- **Cleaning:** Keep the compressor unit clean and free from dust and debris. Ensure cooling vents are unobstructed.
- **Storage:** When not in use, store the compressor in a dry, clean environment, protected from extreme temperatures.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Compressor does not start	No power; Power switch off; Overload protection triggered	Check power connection; Turn on switch; Press reset button (if available) and allow to cool.
Slow inflation	Clogged filter; Air leak in connections; Low oil level	Replace filter element; Check all connections for leaks; Check and refill oil.
Overheating	Insufficient cooling water; Clogged cooling system; Prolonged operation	Ensure water pump is submerged and circulating; Clean cooling system; Allow compressor to cool down.
Air leakage	Loose connections; Damaged O-rings/gaskets	Tighten all connections; Inspect and replace damaged O-rings/gaskets.

## 8. SPECIFICATIONS

Feature	Specification
Model	TXES021
Net Weight	18 KG (39.6 pounds)
Voltage	110V
Compression Stage	Two Stage
Inflating Speed	2800 R/MIN
Quick Connector	8mm
Working Pressure	4500 Psi / 300 Bar / 30 MPa
Motor Power	1.8 KW (Copper Motor)
Cooling System	Dual (Fan and Water Cooling)
Noise Level	75 dB
Included Components	Built-In Water Filter
Product Dimensions (L x W x H)	15.75" x 9.45" x 17.72" (40cm x 24cm x 45cm)
Material	Iron
AC Adapter Current	18 Amps
Air Flow Capacity	35 LPM
Batteries Required	2 LR44 batteries (for display/gauge)

# WEIGHT:16KG



Image 8.1: Dimensions of the TUXING TXES021 compressor, showing its compact size for portability.

## 9. WARRANTY AND SUPPORT

Your TUXING TXES021 PCP Air Compressor comes with a warranty and dedicated customer support.

- **Warranty:** Main parts of the compressor are covered by a 1-year warranty from the date of purchase. This warranty covers manufacturing defects under normal use.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact TUXING customer service. 24-hour online service is available to assist you. Refer to your purchase documentation for specific contact details.