TUXING TXED012

TUXING TXED012 PCP Air Compressor User Manual

Model: TXED012

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your TUXING TXED012 PCP Air Compressor. Please read this manual thoroughly before operating the compressor to ensure proper usage and to prevent damage or injury.
The TUXING TXED012 is a high-pressure air compressor designed for filling PCP air rifles, paintball tanks, and scuba diving cylinders. It features a two-stage compression system, built-in water-oil separator, and an automatic shut-off function for convenience and safety.

2. Safety Instructions

WARNING: Failure to follow these safety instructions could result in serious injury or death.

- Always operate the compressor in a well-ventilated area.
- Ensure the compressor is placed on a stable, level surface to prevent vibration and movement during operation.
- Do not operate the compressor if any parts are damaged or missing.
- Always connect the compressor to a grounded power outlet.
- Never touch hot surfaces during or immediately after operation.
- Always wear appropriate personal protective equipment (PPE), such as safety glasses and hearing protection.
- Ensure the cooling water system is properly set up and functioning before starting the compressor.
- Do not overfill tanks. Always adhere to the maximum pressure ratings of the tanks being filled.
- Keep children and unauthorized personnel away from the compressor during operation.
- Before using the compressor, replace the oil breather and top up with oil.

3. Product Components

Familiarize yourself with the main components of your TUXING TXED012 compressor:

- **High Pressure Compressor Unit:** The core component responsible for air compression.
- **Built-in Water-Oil Separator:** Filters impurities and moisture from the compressed air.
- **Adjustable Pressure Gauge:** Allows setting the desired shut-off pressure.
- **Cooling System (Fan and Water-cooled):** Ensures optimal operating temperature.
- **Oil Breather:** Essential for proper ventilation during operation.
- **Power Switch:** On/Off control for the unit.
- **Pressure Relief Valve:** Safety mechanism to release excess pressure.

Figure 3.1: Overview of the TUXING TXED012 compressor with key components labeled, including low pressure working cylinder, high pressure working cylinder, fan cooling, oil level line, and oil-water separator inlet.

Figure 3.2: The TUXING TXED012 compressor, emphasizing the oil-water separator which provides clean air by filtering impurities.

4. Setup and Initial Preparation

1. **Unpacking:** Carefully remove the compressor from its packaging. Inspect for any shipping damage.
2. **Placement:** Place the compressor on a firm, level, and stable surface in a well-ventilated area. Ensure there is adequate space around the unit for air circulation.
3. **Oil Breather Installation:** Locate the oil breather plug (usually a red cap) and replace it with the supplied oil breather cap. This is crucial for proper ventilation during operation.

Figure 4.1: The TUXING TXED012 PCP Air Compressor, ready for setup. Ensure the oil breather is correctly installed before operation.

4. **Oil Level Check:** Verify the oil level using the oil level line/sight glass. If necessary, top up with appropriate compressor oil.
5. **Cooling Water System Setup:**
    - Connect the water inlet and outlet hoses to the compressor.
    - Place the other ends of the hoses into an external bucket filled with clean water. Ensure the water level is sufficient to cover the pump for continuous cooling.
    - Do not start the machine without preparing cooling water.

Figure 4.2: Illustration of the fan cooling system and water cooling requirements for the compressor. The working temperature range is 50-85°C.

6. **Power Connection:** Connect the compressor to a standard 110V, 60Hz grounded power outlet.

5. Operating Instructions

1. **Connect Air Tank:** Securely connect the air hose from the compressor to the tank you wish to fill (e.g., PCP air rifle, paintball tank, scuba tank). Ensure all connections are tight to prevent leaks.
2. **Set Desired Pressure:** Adjust the pressure gauge to the desired shut-off pressure. The compressor will automatically stop when this pressure is reached. The maximum working pressure is 30MPA / 300bar / 4500psi.
3. **Start Compressor:** Turn on the main power switch. The compressor will begin to fill the tank.
4. **Monitor Operation:**
    - Continuously monitor the pressure gauge on the compressor and the tank being filled.
    - Observe the cooling water temperature using the battery-powered digital thermometer. Ensure the water remains cool.
    - Listen for any unusual noises or vibrations.
5. **Automatic Shut-off:** The compressor will automatically shut off once the preset pressure is reached.
6. **Disconnect Tank:** Once filling is complete and the compressor has shut off, turn off the main power switch. Carefully disconnect the air hose from the tank. Be aware that the hose and fittings may be hot.

Approximate Fill Times:

- 0.5L tank from 0-300 bar (0-4500 psi): Approximately 3 minutes.
- 6.8L tank from 0-300 bar (0-4500 psi): Approximately 45 minutes.

Figure 5.1: The double cylinder head design, which contributes to efficient water cooling and faster fill times for various tank capacities.

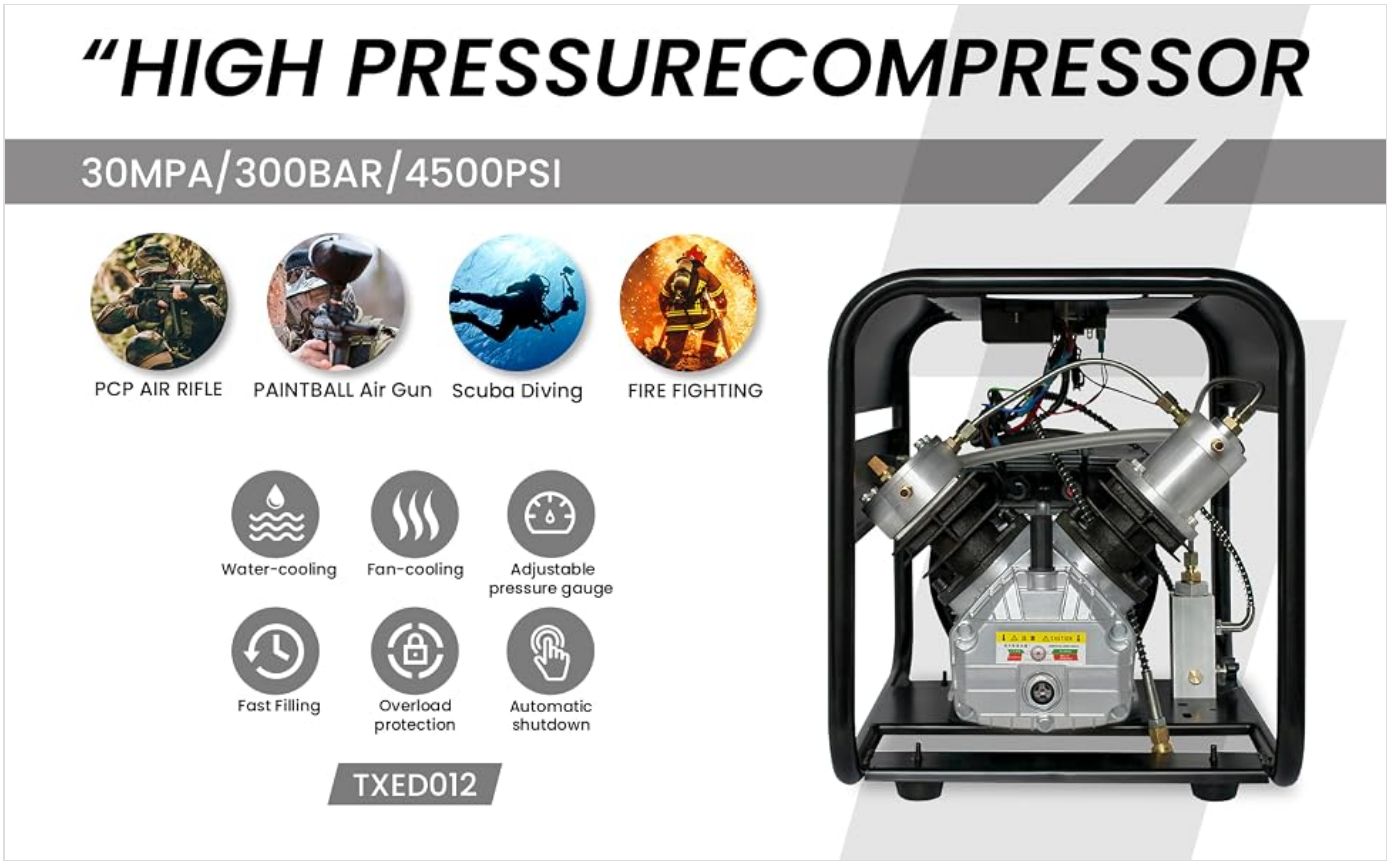

Figure 5.2: Key features of the TUXING high-pressure compressor (TXED012), highlighting its 30MPA/300BAR/4500PSI capability, cooling systems, and safety functions.

6. Maintenance

Regular maintenance is essential to ensure the longevity and optimal performance of your TUXING TXED012 compressor.

- **Oil Change:** Regularly check and change the compressor oil according to the manufacturer's recommendations or if the oil appears discolored. Use only specified compressor oil.
- **Water-Oil Separator Filter Replacement:** The built-in water-oil separator contains filter elements that need periodic replacement to maintain air quality. Replace filters as needed or after a certain number of operating hours.

Figure 6.1: Components related to the oil-water filter, including filter cotton, which require regular inspection and replacement for optimal performance.

- **Cooling System Check:** Ensure the water cooling system is clean and free of debris. Replace cooling water regularly.
- **General Cleaning:** Keep the exterior of the compressor clean and free of dust and dirt.
- **Storage:** When not in use for extended periods, store the compressor in a dry, clean environment.

7. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Compressor does not start.	No power, tripped circuit breaker, faulty switch.	Check power connection, reset circuit breaker, contact support if switch is faulty.
Compressor runs but does not build pressure.	Air leaks, clogged filter, worn piston rings.	Check all connections for leaks, replace water-oil separator filter, contact support for internal component issues.
Compressor overheats.	Insufficient cooling water, blocked fan, operating in poor ventilation.	Ensure adequate cooling water supply, clear fan obstructions, move to a well-ventilated area.
Oil turns black quickly.	Normal during break-in, or contamination.	Change oil after initial break-in period. If problem persists, contact support.
Excessive vibration.	Uneven surface, loose components.	Ensure compressor is on a stable, level surface. Check for and tighten any loose bolts.

8. Specifications

Feature	Detail
Model	TXED012
Voltage	110V

Feature	Detail
Frequency	60Hz
Power	2.2 kW (2200 Watts)
Flow Rate	40 L/min
Working Pressure	30 MPa / 300 bar / 4500 psi
Noise Level	78 dB
Cooling System	Fan cooling, Water cooling
Special Features	Auto-Stop, Built-in Water-oil Separator, Two-stage compression, Double Cylinder
Dimensions (L x W x H)	20.87" x 15.75" x 18.9"
Item Weight	30 Kilograms (66 pounds)
Material	Iron

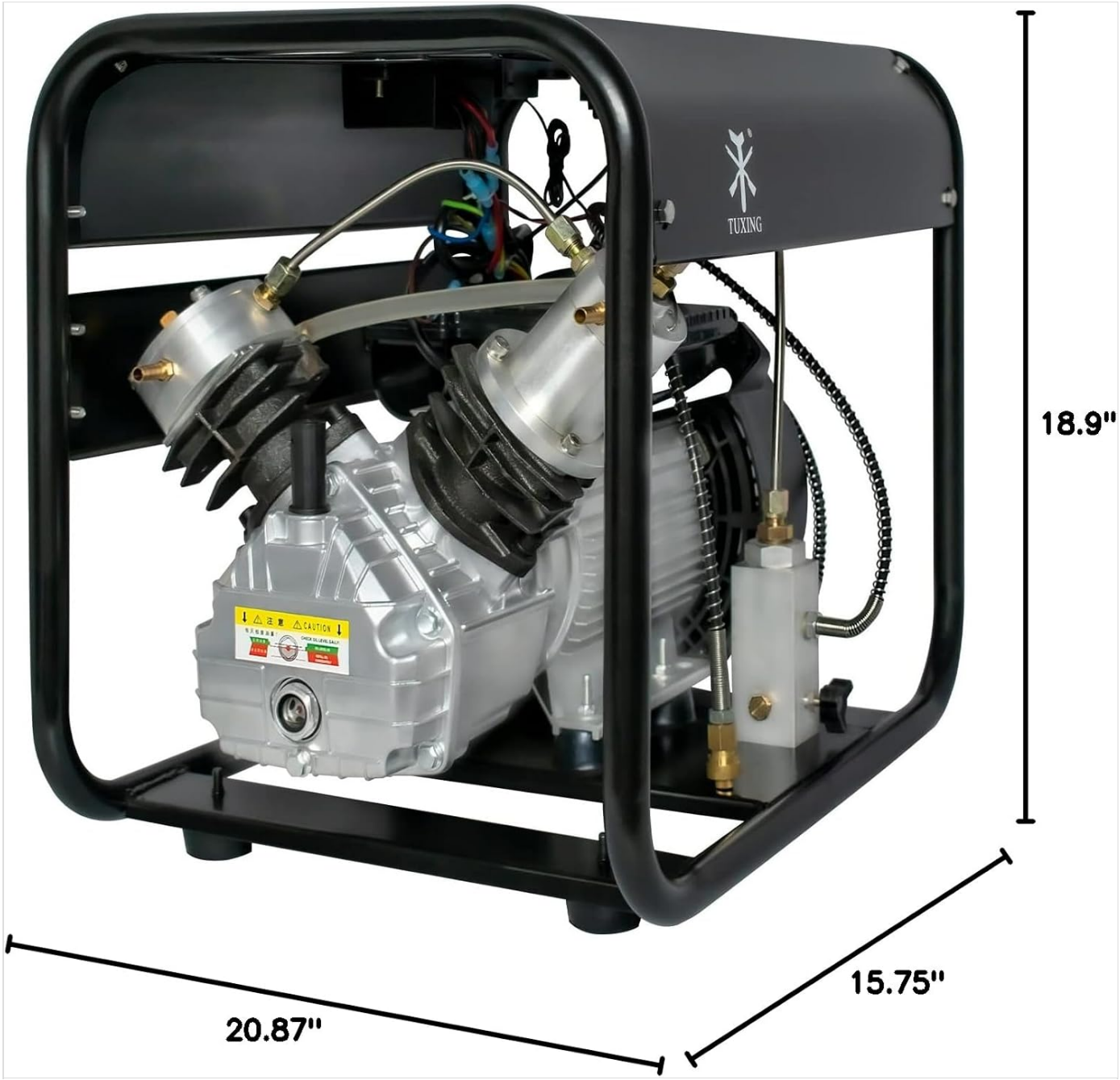

Figure 8.1: Physical dimensions of the TUXING TXED012 compressor.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official TUXING website. Keep your purchase receipt as proof of purchase for warranty claims.
You can visit the TUXING Store for more information:TUXING Store on Amazon

10. Disposal

When disposing of the TUXING TXED012 compressor, please follow local regulations for the disposal of electronic and mechanical waste. Do not dispose of the unit with general household waste. Proper disposal helps prevent potential negative consequences for the environment and human health.

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.

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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