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› TUXING TXEDT033 4500Psi PCP Air Compressor Instruction Manual

TUXING TXEDT033

TUXING TXEDT033 4500Psi PCP Air Compressor Instruction Manual

Model: TXEDT033

1. PRODUCT OVERVIEW

The TUXING TXEDT033 is a high-pressure PCP air compressor designed for filling large capacity bottles, such as those used for PCP air rifles, paintball tanks, and diving cylinders. It features a two-stage compression system, an integrated water and fan cooling system, and automatic stop and purge functions for efficient and safe operation.

- **Voltage:** 110V, 60Hz
- **Power:** 2.2kW
- **Flow Rate:** 45L/min
- **Working Pressure:** 30MPa / 300bar / 4500psi
- **Cooling System:** Built-in water and fan cooling
- **Features:** Auto-stop, auto-purge, two-stage compression, built-in water tank, oil-water filter

TXEDT033

HIGH PRESSURE AIR COMPRESSOR

30MPA/300BAR/4500PSI

Overall performance promotion
Product quality assurance
All copper coil motor



Water-cooling



Fan-cooling



Double
cylinder head



Overload
protection



Automatic
shutdown and
auto purge



Oil-water
separation



Figure 1: Overview of the TUXING TXEDT033 Air Compressor with key components labeled, including the cooling system switch, power switch, pressure gauge, temperature gauge, double filter, bleed valve, oil level line, plug, and high-pressure working cylinder.

2. SAFETY INFORMATION

Read and understand all safety warnings and instructions before operating this air compressor. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage. Keep this manual for future reference.

- **High Pressure Hazard:** This compressor generates extremely high pressure. Always ensure all connections are secure and rated for the operating pressure. Never point the air outlet at yourself or others.
- **Electrical Safety:** Connect the compressor only to a properly grounded 110V, 60Hz power outlet. Do not operate in wet conditions. Ensure hands are dry when handling electrical components.
- **Heat Hazard:** The compressor and its components can become very hot during operation. Avoid direct contact with hot surfaces. Allow the unit to cool down before handling or performing maintenance.
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent overheating and ensure proper air intake.
- **Oil and Water:** Always ensure proper oil levels and that the water cooling system is functioning correctly before and

during operation. Regularly drain condensed water and oil.

- **Children and Bystanders:** Keep children and unauthorized persons away from the operating area.
- **Personal Protective Equipment:** Wear appropriate safety glasses and hearing protection during operation.

3. INITIAL SETUP

Before first use, perform the following setup steps:

1. Add Compressor Oil:

Locate the oil fill port and oil level sight glass. Fill the compressor with appropriate high-pressure compressor oil (e.g., Mobil 1 synthetic oil is recommended by some users) until the oil level reaches the red dot in the sight glass. Do not overfill. The compressor is shipped without oil.

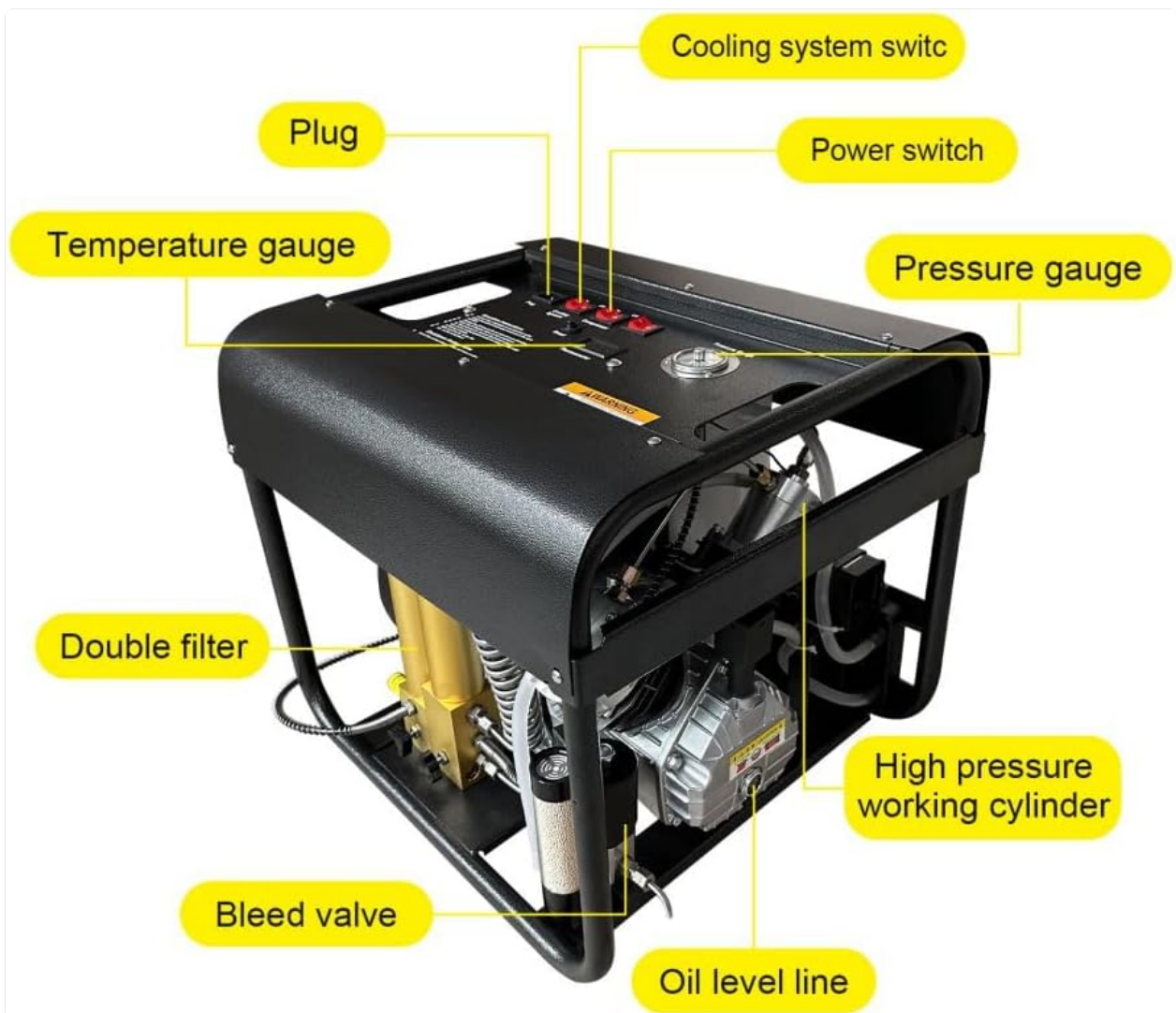


Figure 2: Internal view highlighting the compressor's engine block, where oil is added and the oil level is checked via the sight glass.

2. Prepare Water Cooling System:

The TXEDT033 features a built-in water tank and pump. Fill the water tank with distilled water or a water/coolant mixture up to the "MAX FILL" line. Ensure the water pump is submerged and connected. The cooling system helps dissipate heat during operation.



Figure 3: Side view of the compressor, showing the integrated water tank with a "MAX FILL" indicator.

3. Connect Air Hose:

Attach the high-pressure air hose to the compressor's outlet and to the cylinder or device you intend to fill. Ensure all connections are tight and leak-free.

4. Power Connection:

Connect the compressor to a standard 110V, 60Hz grounded power outlet.

4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation:

1. Pre-Operation Check:

- Verify oil level is correct.
- Ensure water tank is filled and cooling system hoses are properly connected.
- Confirm all air connections are secure.
- Open the bleed valve before starting to reduce initial load during break-in or to release residual pressure.

2. Set Auto-Stop Pressure:

Use the control panel to set the desired auto-stop pressure. The compressor will automatically shut off once this pressure is reached. Refer to the pressure gauge for current pressure readings.



Figure 4: The control panel features a digital display for pressure readings (BAR/PSI), and buttons to adjust the auto purge interval and auto stop pressure.

3. Start Cooling System:

Turn on the cooling system switch. Ensure the water pump is circulating water and the fan is operating.

4. Start Compressor:

Turn on the compressor power switch. The compressor will begin to fill the connected cylinder. Monitor the pressure gauge and temperature gauge during operation.

5. Auto Purge Function:

The compressor is equipped with an auto purge function to automatically drain excess oil and water, protecting the machine from moisture buildup. You can set the purge interval via the control panel.

6. Completion of Filling:

The compressor will automatically shut off when the preset pressure is reached. Turn off the compressor and cooling system switches. Slowly open the bleed valve to release any residual pressure in the hose before disconnecting the air hose from the cylinder.

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Video 1: This video demonstrates the operation and features of a TUXING PCP air compressor, similar to the TXEDT033 model. It showcases the internal components, cooling system, and general functionality during use.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your compressor.

- **Oil Change:**

Change the compressor oil after the first few hours of operation (e.g., after 3-5 hours) to remove break-in contaminants. Subsequently, change oil every 20-30 hours of use or as recommended by the oil manufacturer. Always use high-quality synthetic compressor oil.

- **Drain Auto Purge Valve:**

The auto purge valve automatically drains excess oil and water. Ensure this function is operating correctly. Manually drain if necessary to prevent moisture buildup.

- **Water Cooling System:**

Regularly check the water level in the cooling tank and refill with distilled water or coolant as needed. Inspect cooling hoses for kinks or damage. Clean the cooling fan and radiator fins to ensure efficient heat dissipation.

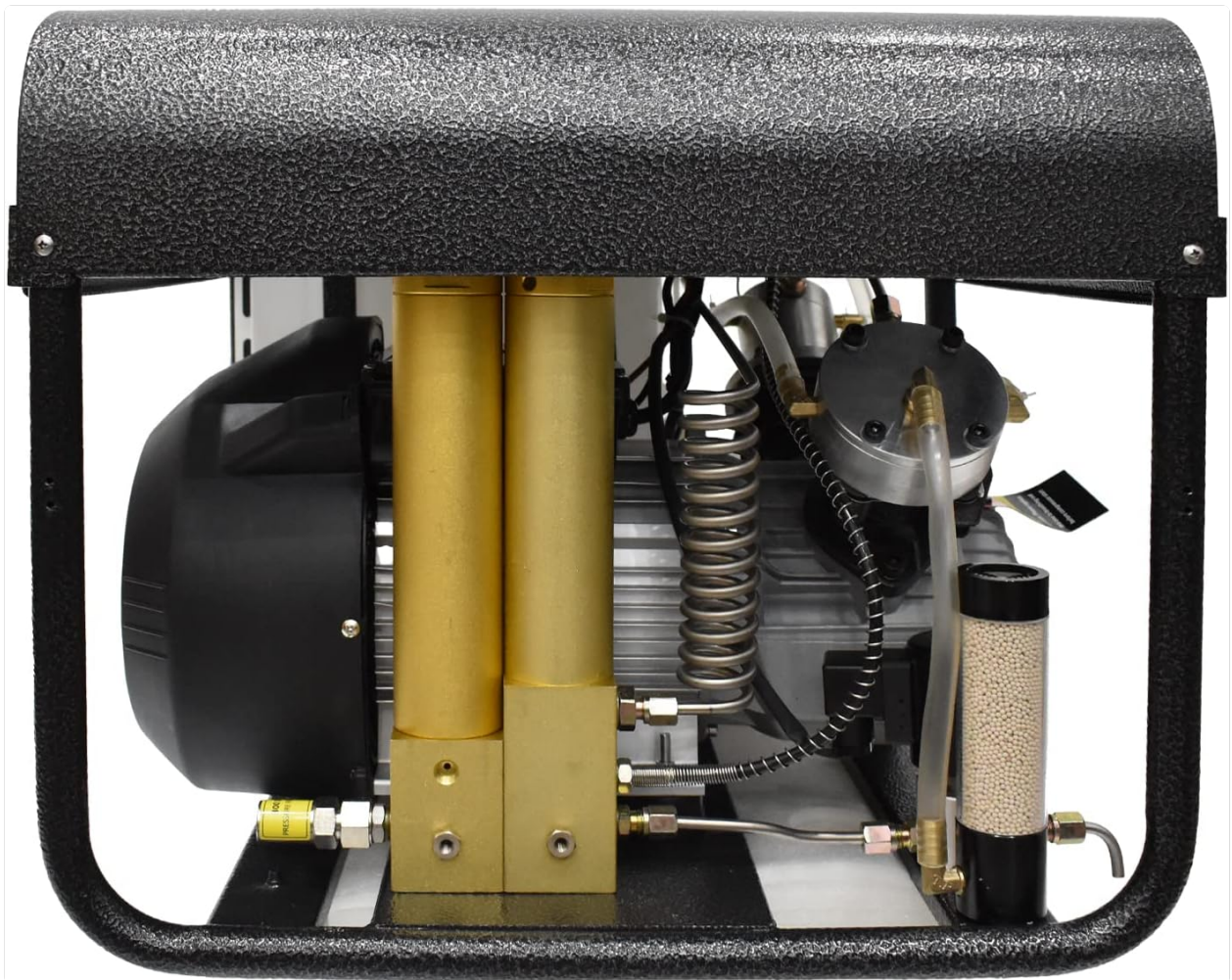


Figure 5: Internal view of the compressor, illustrating the components of the water and fan cooling system.

- **Air Filters:**

Inspect and replace air filters as needed. The compressor features a double filter system for cleaner air output.

OIL-WATER SEPARATOR

Provide you with clean air



Figure 6: The oil-water separator, an essential part of the filtration system, ensures clean air output by filtering impurities.

- **Burst Disks:**

The compressor is equipped with burst disks as a safety measure. If a burst disk activates, replace it with an original TUXING spare part. Always ensure the correct pressure setting to avoid premature disk activation.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Compressor does not start.	No power, power switch off, safety overload activated.	Check power connection, ensure switch is on, allow unit to cool and reset if overloaded.
Compressor runs but no pressure builds.	Bleed valve open, loose hose connection, internal leak, burst disk activated.	Close bleed valve, tighten connections, inspect for leaks, replace burst disk if necessary.
Overheating.	Insufficient water in cooling tank, cooling fan blocked, prolonged operation.	Check and refill water tank, clear fan/radiator, allow compressor to cool between uses.
Excessive vibration.	Uneven surface, loose components.	Place on a stable, level surface. Check for and tighten any loose bolts or parts.
Oil leakage.	Loose seals, damaged O-rings, overfilling oil.	Check oil level, inspect and replace seals/O-rings if damaged. Contact support if persistent.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	TUXING
Model Name	TXEDT033
Voltage	110 Volts
Power Source	AC
Maximum Power	2.2 Kilowatts
Maximum Operating Pressure	300 Bars / 4500 PSI
Air Flow Capacity	3.15 Cubic Centimeters Per Minute (45 L/min)
Noise Level	85 Decibels
Cooling System	Built-in Water and Fan Cooling
Special Features	Built-in water tank, oil-water filter, adjustable pressure, auto purge function
Included Components	Built-In Water Filter, Hose, Power Cord
Item Weight	43 Kilograms (94.6 pounds)
Product Dimensions	22.44"L x 19.68"W x 20.86"H
Hose Length	0.5 Meters
Tank Volume (Water)	0.5 Liters
Batteries	2 LR44 batteries required (included)

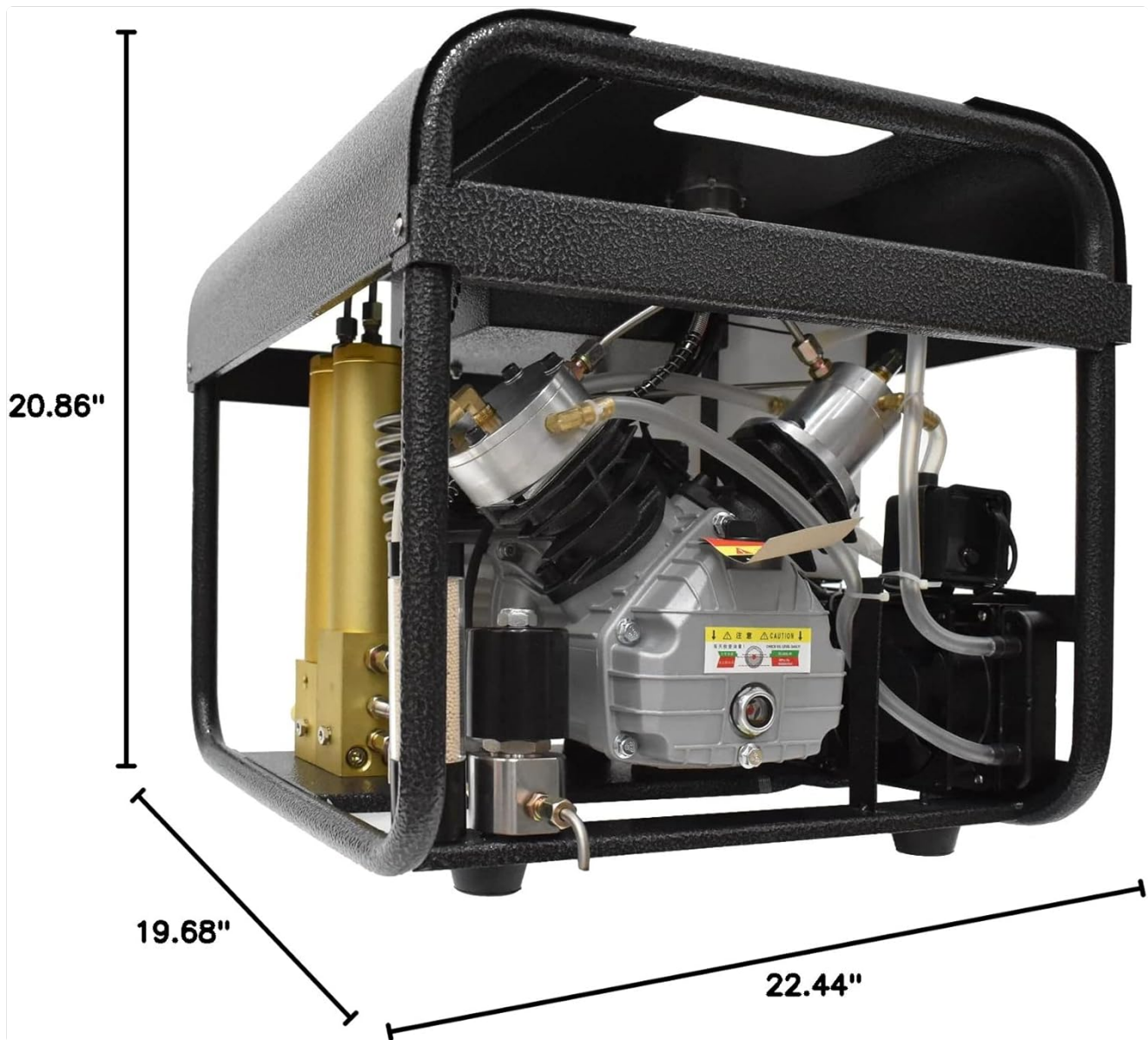


Figure 7: Diagram illustrating the dimensions of the TUXING TXEDT033 Air Compressor.

8. WARRANTY AND SUPPORT

The main part of the TUXING TXEDT033 air compressor comes with a 1-year warranty from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact TUXING Official Store customer service. You can typically find contact information on the seller's platform or through the official TUXING website.

- **Customer Support:** Available for assistance with product use and issues.
- **Returns:** 30-day easy returns policy may apply, check with your retailer.