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TUXING TXES061

TUXING TXES061 300Bar 12V PCP Air Compressor User Manual

Model: TXES061

1. Product Overview

The TUXING TXES061 is a portable high-pressure air compressor designed for filling PCP airguns, diving scuba tanks, and other high-pressure air containers. It features a compact design, dual power options (110V AC and 12V DC), and built-in safety mechanisms for reliable operation.



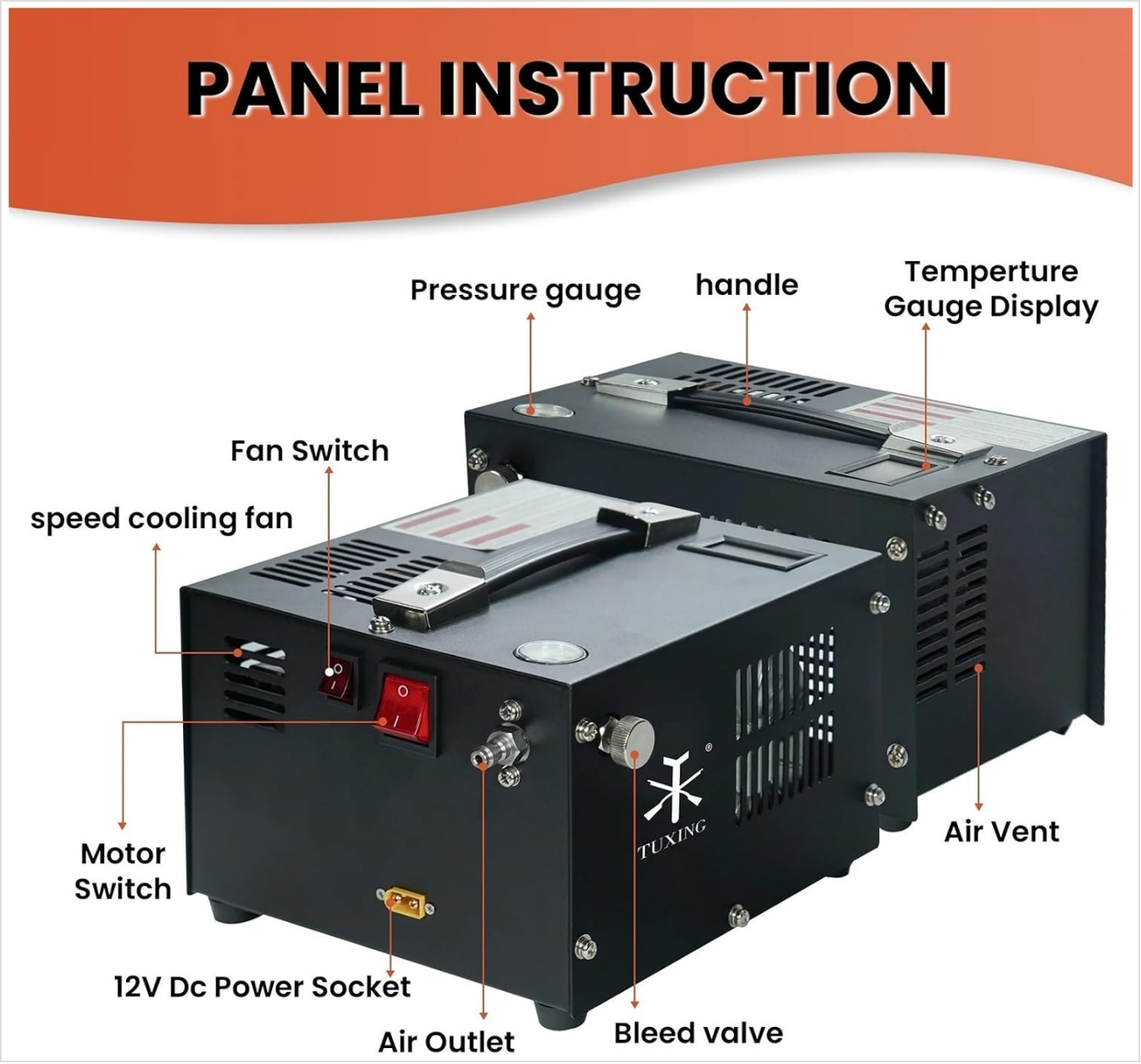
This image displays the TUXING TXES061 12V PCP Air Compressor, showcasing its compact black casing, integrated handle, and control panel elements.



The TUXING TXES061 Air Compressor is shown alongside its complete set of accessories, including various seals, O-rings, a high-pressure hose, power cables, and a transformer, indicating a ready-to-use package.

2. Components and Features

Familiarize yourself with the main components and features of your TUXING TXES061 compressor for proper operation.



This image provides a close-up of the compressor's control panel, highlighting key components such as the pressure gauge, temperature gauge display, fan switch, motor switch, 12V DC power socket, air outlet, air vent, and bleed valve for easy identification.

Key Features:

- **High Pressure Output:** Achieves up to 300Bar (4500Psi) for efficient tank filling.
- **Portable Design:** Compact and lightweight with a sturdy carry handle for easy transport.
- **Dual Power Capability:** Operates on 110V AC (with included transformer) or 12V DC (from a vehicle battery).
- **Integrated Cooling System:** Features a fan for effective heat dissipation during operation.
- **Over-temperature Protection:** Automatic shut-off to prevent damage from overheating.
- **Built-in Drain System:** Inlet drain valve system for automatic deposit removal and reduced maintenance.



The image illustrates the 'Freshly Upgraded' features of the compressor, including simplified operation with a single compressor ON/OFF switch, a wider and softer handle, a larger side fan for improved cooling, and a larger barometer for clearer readings.

3. Setup

3.1 Initial Setup and Connections

1. **Unpack:** Carefully remove all components from the packaging.
2. **Inspect:** Check for any visible damage to the compressor or accessories.
3. **Connect Air Hose:** Securely attach the high-pressure air hose to the compressor's air outlet and to your tank's fill valve. Ensure all connections are tight to prevent leaks.
4. **Bleed Valve:** Ensure the bleed valve is closed (tightened to the right) before starting the compressor.

3.2 Powering the Compressor

The TXES061 offers flexible power options:

- **AC Power (Home Use):** Connect the included transformer to a standard 110V AC wall outlet, then connect the

transformer's output to the compressor's 12V DC power socket.

- **DC Power (Field Use):** Connect the provided alligator clips to a 12V vehicle battery. Ensure correct polarity: RED to '+' and BLACK to '-'. It is recommended to keep the vehicle engine idling while the compressor is operating to provide stable power.



This image demonstrates the compressor in a home setting, powered by a wall outlet via its transformer, and connected to an air rifle tank for filling. It also shows the input voltage adjustment paddle on the converter.



The compressor is depicted in an outdoor environment, connected to a 12V car battery using alligator clips, and actively filling a small HPA tank. The car engine is shown idling, as recommended for operation.

4. Operating Instructions

4.1 Filling a Tank

1. **Power On:** Connect the power source (AC or DC) and ensure the compressor's main power switch is in the 'ON' position. The cooling fan will start automatically.
2. **Start Compression:** Turn on the motor switch. The compressor will begin to build pressure.
3. **Monitor Pressure:** Continuously monitor the pressure gauge on the compressor and your tank. Do not exceed the maximum rated pressure of your tank or the compressor (4500Psi / 300Bar).
4. **Monitor Temperature:** Observe the temperature gauge display. If the temperature approaches critical levels, stop the compressor and allow it to cool. The over-temperature protection will automatically shut off the unit if it gets too hot.
5. **Stop Compression:** Once the desired pressure is reached, turn off the motor switch, then the main power switch.

6. **Bleed Air:** Slowly open the bleed valve to release the pressure from the hose. This will allow you to safely disconnect the hose from your tank.
7. **Disconnect:** Once pressure is fully released, disconnect the air hose from your tank.



This image focuses on the compressor's connection to an HPA tank via a quick connector, highlighting its 300W motor, rapid cooling capabilities, and the absence of oil and water requirements. It also notes the approximate fill time for a 0.5L tank.

4.2 Safety Precautions

- Always operate the compressor in a well-ventilated area.
- Do not touch hot surfaces during or immediately after operation.
- Ensure all connections are secure before starting.
- Never exceed the maximum pressure rating of your tank or the compressor.
- Keep children and pets away from the operating compressor.
- Regularly check for leaks and wear on hoses and fittings.
- Do not modify the compressor in any way.

5. Maintenance

Proper maintenance ensures the longevity and safe operation of your compressor.

- **Drain System:** The built-in inlet drain valve system automatically removes deposits. Periodically check the drain valve screw to ensure it is functioning correctly and to reduce maintenance needs.
- **Cooling Fan:** Keep the cooling fan vents clear of obstructions to ensure efficient heat dissipation.
- **General Cleaning:** Wipe down the exterior of the compressor with a dry cloth after use.
- **Storage:** Store the compressor in a dry, clean environment away from direct sunlight and extreme temperatures.

6. Troubleshooting

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
Compressor does not start	No power, loose connection, main switch off.	Check power source, ensure all cables are securely connected, turn on main power switch.
Slow filling speed	Air leaks, low power supply (for 12V DC).	Check all connections for leaks. If using 12V DC, ensure vehicle engine is idling.
Compressor overheats and shuts off	Continuous operation, blocked vents.	Allow compressor to cool down. Ensure cooling fan vents are clear. Operate in cycles if needed.
Air leaks from connections	Loose fittings, worn O-rings/seals.	Tighten all connections. Replace O-rings or seals if damaged.
Pressure gauge not reading correctly	Gauge malfunction, bleed valve open.	Ensure bleed valve is fully closed. If issue persists, contact support.

7. Specifications

Specification	Detail
Model Number	TXES061
Working Pressure	Up to 300Bar (4500Psi / 30MPa)
Power Source	110V AC (with transformer) / 12V DC
Motor Power	300W
Compressor Stage	Two Stage Reciprocating
Cooling System	Fan Cooling
Charging Speed (0.5L tank)	Approx. 15 minutes (0MPa to 30MPa)
Safety Features	Over-temperature auto-shut off, Built-in drain system

8. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your purchase receipt as proof of purchase for any warranty claims.

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