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TUXING TXES021

TUXING TXES021 PCP Air Compressor Instruction Manual

Model: TXES021 | Brand: TUXING

1. Product Overview

The TUXING TXES021 is a high-pressure PCP air compressor designed for various applications including PCP air rifles, paintball tanks, and small diving cylinders. It features a powerful 1.8KW copper motor, dual cooling systems (air and water), and a two-stage compression process to achieve pressures up to 4500 Psi (300 Bar).

- **Net Weight:** 18 KG
- **Voltage:** 220V
- **Compression Stage:** Two stages
- **Inflation Speed:** 2800R/MIN
- **Quick Connector:** 8mm
- **Working Pressure:** 4500Psi / 300Bar
- **Cooling System:** Dual (Air and Water)
- **Motor Power:** 1.8KW

Figure 1: TUXING TXES021 PCP Air Compressor with all included components, including power cord, water pump, hoses, and spare parts.

2. Safety Information

WARNING: Failure to follow safety instructions can result in serious injury or equipment damage.

- Always read and understand the entire manual before operating the compressor.
- Ensure the compressor is placed on a stable, level surface in a well-ventilated area.
- **Crucial Step:** Before starting the machine, you **must** replace the oil plug with the breathing valve. Failure to do so will cause the machine to explode due to pressure buildup.
- Do not operate the compressor near flammable materials or in explosive atmospheres.
- Always wear appropriate personal protective equipment (PPE), such as safety glasses, during operation.
- Never exceed the maximum rated pressure of the compressor or the item being filled.
- Regularly check all connections for leaks before and during operation.
- Keep children and unauthorized personnel away from the operating compressor.
- Disconnect power before performing any maintenance or repairs.

Figure 2: Illustration emphasizing the correct installation of the breathing valve before operation to prevent overpressure.

3. Setup

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present.
2. **Breathing Valve Installation:** Locate the oil plug on the compressor. Remove it and install the provided breathing valve in its place. This is a critical safety step.
3. **Power Connection:** Connect the power cord to the compressor and then to a suitable 220V power outlet.
4. **Cooling System Setup:**
    - **Water Cooling:** Connect the water pump to a water reservoir (e.g., a bucket of water). Connect the water inlet and outlet hoses to the compressor's designated ports and the water pump. Ensure water circulates freely.
    - **Fan Cooling:** The compressor features an integrated fan cooling system that operates automatically.
5. **Air Hose Connection:** Connect the high-pressure air hose to the compressor's output port and to the item you intend to fill (e.g., PCP rifle, paintball tank). Ensure a secure, leak-free connection using the 8mm quick

connector.

6. **Water-Oil Separator:** Ensure the water-oil separator is properly installed in the air line to filter moisture and oil from the compressed air.

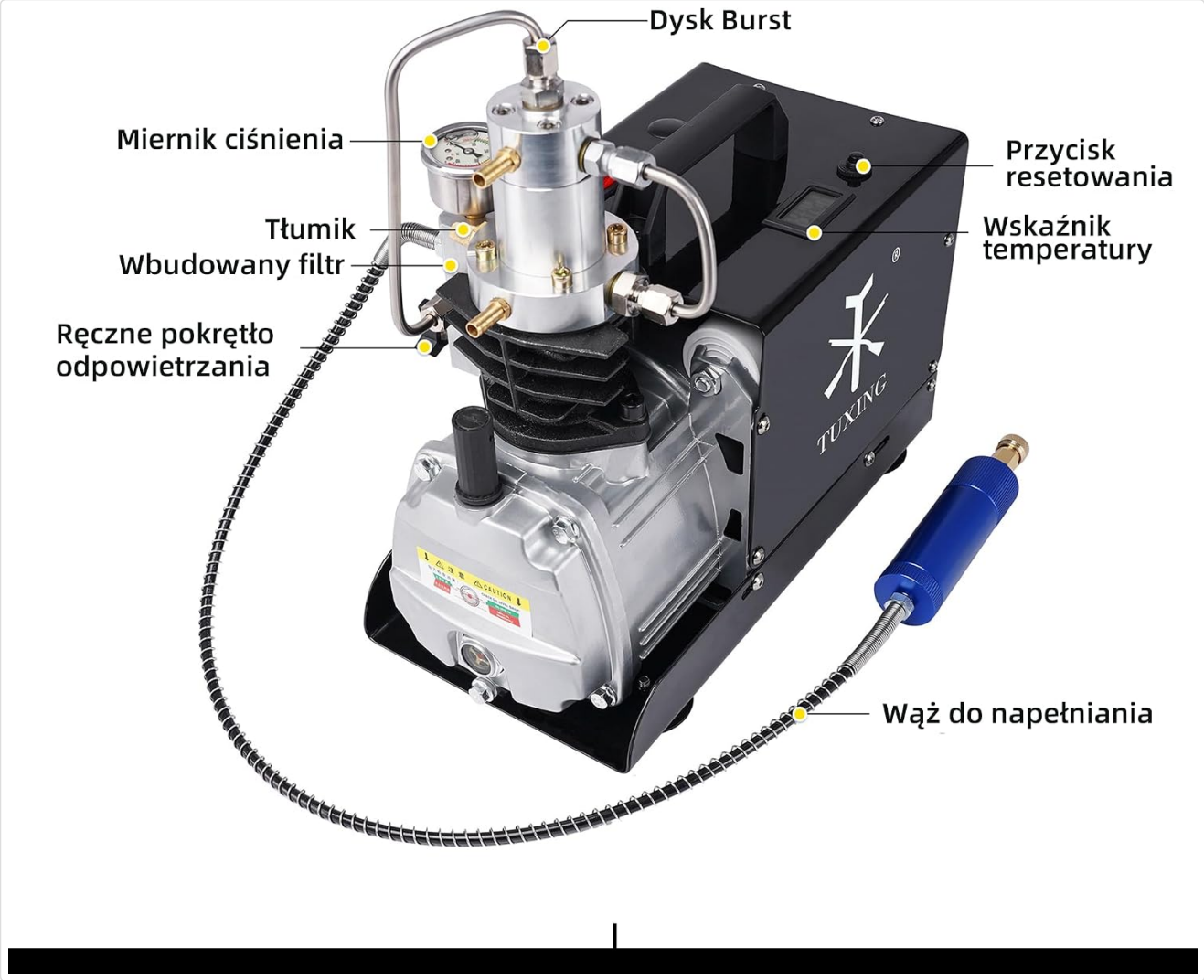

Figure 3: Detailed diagram showing the location of key components such as the pressure gauge, burst disk, muffler, built-in filter, manual bleed knob, reset button, temperature indicator, and filling hose.

4. Operating Instructions

1. **Pre-Operation Check:**
    - Confirm the breathing valve is installed.
    - Verify all hose connections are tight.
    - Ensure the water cooling system is functioning (if applicable).
    - Check the pressure gauge on the compressor and the item to be filled.
2. **Start Compressor:** Turn on the power switch. The compressor will begin to operate.
3. **Monitor Pressure:** Observe the pressure gauge. The compressor will rapidly increase pressure.
4. **Manual Stop:** When the desired pressure is reached, manually turn off the compressor using the power switch. The TXES021 model does not feature automatic shut-off.
5. **Bleed Air:** Slowly open the manual bleed knob to release residual pressure from the system before disconnecting the filling hose.
6. **Disconnect:** Once pressure is fully released, disconnect the filling hose from the item.

Figure 4: Close-up view of the compressor's pressure gauge and the manual stop switch, highlighting the need for user monitoring during operation.

Inflation Performance Example: A 0.5L diving tank can be filled from 0 to 30Mpa (4500Psi) in approximately 3 minutes.

5. Maintenance

- **Water-Oil Separator:** Regularly check and drain the water-oil separator. Replace the filter elements as needed to ensure clean, dry air.
- **Cooling Water:** Ensure the water reservoir for the cooling system is always adequately filled with clean water. Change the water periodically to prevent algae growth and maintain cooling efficiency.
- **Air Filter:** Inspect and replace the air filter element regularly to prevent dust and debris from entering the compressor.
- **General Cleaning:** Keep the exterior of the compressor clean and free from dust and debris to ensure proper heat dissipation.
- **Storage:** When not in use, store the compressor in a dry, clean environment.

Figure 5: The water-oil separator, crucial for providing clean air by filtering out moisture and oil. Regular maintenance of this component is essential.

6. Troubleshooting

Problem	Possible Cause	Solution
Compressor does not start	No power, loose connection, tripped circuit breaker.	Check power cord, outlet, and circuit breaker.
Compressor builds pressure slowly or not at all	Air leak, clogged filter, worn piston rings.	Check all connections for leaks. Replace air filter. Contact support if issue persists.
Excessive heat during operation	Insufficient cooling water, blocked air vents, prolonged operation.	Ensure adequate water circulation. Clean air vents. Allow compressor to cool down.

Problem	Possible Cause	Solution
Water or oil in compressed air	Water-oil separator needs draining or filter replacement.	Drain the separator. Replace filter elements.
Loud or unusual noise	Loose components, internal wear.	Inspect for loose parts. Discontinue use and contact support if noise is severe.

7. Specifications

Feature	Detail
Model Number	TXES021-1
Brand	TUXING
Net Weight	18 kg
Dimensions	33 x 18 x 33 cm
Voltage	220 Volts
Power (Electrical)	300 Watts
Maximum Power	1800 Watts
Air Flow Rate	35 Liters per minute
Maximum Pressure	300 Bar (4500 Psi)
Noise Level	78 Decibels
Special Feature	Manual Shut-off
Included Components	PCP Air Filter
Material	Iron
Style	Portable

8. Warranty and Support

TUXING provides a one-year warranty for this product. For any technical assistance, troubleshooting, or warranty claims, please contact our customer service. We offer 24-hour online service to assist you with any inquiries. Please refer to your purchase documentation for specific contact details or visit the official TUXING website for support information.

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