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› TUXING TXEDM041 Scuba Tank Compressor User Manual

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TUXING TXEDM041 Scuba Tank Compressor User Manual

Model: TXEDM041

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your TUXING TXEDM041 Scuba Tank Compressor. This high-pressure air compressor is designed for filling PCP air rifles, paintball tanks, and small scuba tanks up to 4500 PSI (300 BAR).

The TXEDM041 features a dual-cylinder compression system, a 2200W motor, and integrated water and fan cooling for optimal performance. Please read this manual thoroughly before operating the compressor to ensure proper usage and to prevent damage or injury.

2. SAFETY INFORMATION

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

- **Operating Temperature:** Do not allow the compressor temperature to exceed 85°C (185°F). Monitor the temperature gauge during operation.
- **Operating Duration:** The continuous running time should not exceed 45 minutes. Allow the compressor to cool down between cycles.
- **Oil Level:** Before starting, ensure the oil cap is replaced with the breathing rod and the oil level is at the red dot mark.
- **Cooling System:** Always connect and operate the external water cooling system before starting the compressor. Ensure a sufficient supply of cooling water (e.g., 20-40 liters in an external bucket).
- **Hose and Filter Connections:** Verify that all hoses and the blue filter are securely assembled and free of leaks before operation.
- **Silicone Oil:** Due to transportation restrictions, silicone oil is not included. Users must prepare and add silicone oil as required for maintenance.
- **Maximum Pressure:** The filling pressure must not exceed 300 BAR / 4500 PSI / 30 MPA. Manually stop the compressor once the desired pressure is reached.
- **Electrical Safety:** Ensure the compressor is connected to a compatible 110V power supply. Check for loose wires or damaged components before use.

3. PRODUCT OVERVIEW

The TUXING TXEDM041 is a portable, high-pressure air compressor designed for various applications requiring compressed air. Its robust construction and efficient design ensure reliable performance.



Figure 1: TUXING TXEDM041 Scuba Tank Compressor. This image shows the overall view of the black and silver compressor unit with its various components.

Key Features:

- **Dual Cylinder Compression:** Reduces fill times and enhances efficiency.
- **High Power Motor:** Equipped with a 2200W motor for quick and efficient compression.
- **Integrated Cooling System:** Features both water and fan cooling to maintain optimal operating temperatures.
- **High Pressure Output:** Capable of reaching up to 4500 PSI (300 BAR).
- **Built-in Water Filter:** Helps ensure cleaner air output.
- **Portable Design:** Compact and easy to transport for various outdoor activities.

Component Identification:



Figure 2: Labeled diagram of the TUXING TXEDM041 compressor. Key components include the temperature gauge, pressure gauge, high-pressure cylinder heads, oil-water separator inlet, fan cooling, and oil level line.

- **Temperature Gauge:** Displays the internal operating temperature.
- **Pressure Gauge:** Shows the current output pressure.
- **High Pressure Cylinder Head:** The main compression units.
- **Oil-Water Separator Inlet:** Point for connecting the filtration system.
- **Fan Cooling:** Provides air circulation for cooling.
- **Oil Level Line:** Indicates the correct oil level.

4. SETUP INSTRUCTIONS

Follow these steps to prepare your compressor for first use.

4.1 Unpacking and Initial Inspection

- Carefully remove the compressor from its packaging.
- Inspect the unit for any visible damage that may have occurred during shipping.
- Ensure all accessories listed in the accessory package are present.

4.2 Oil Filling

- Locate the oil cap on the compressor. Remove it.
- Replace the oil cap with the provided breathing rod.
- Add compressor oil until the level reaches the red dot on the oil sight glass.

4.3 Cooling System Connection

- Prepare an external bucket with 20-40 liters of clean water.
- Connect the provided water pump to the compressor's water inlet and outlet ports using the water hoses.
- Place the water pump into the bucket of water.
- Ensure the water pump is fully submerged and securely positioned.

4.4 Filter and Filling Hose Assembly

- Connect the blue oil-water filter to the compressor's output port.
- Attach the filling hose to the filter output.
- Ensure all connections are tight and leak-free.

4.5 Power Connection

- Connect the power cord to the compressor and then to a standard 110V electrical outlet.
- Verify that the power switch is in the OFF position before plugging in.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your TUXING TXEDM041 compressor.

5.1 Pre-Operation Checks

- Confirm the oil level is correct (at the red dot).
- Ensure the water cooling system is properly set up and the pump is submerged.
- Check all hose connections for tightness and absence of leaks.
- Connect the filling hose to the tank you intend to fill.

5.2 Starting the Compressor

- Turn on the external water pump to initiate water circulation.

- Flip the main power switch on the compressor to the ON position. The compressor will begin to operate.

5.3 Monitoring and Filling

HIGH PRESSURE PERFORMANCE

4500



PSI

Working Pressure

2800R



MIN

Inflation Rate

2200



W

High Power



Turn off machine when
required pressure reaches



Manual stop

Figure 3: High pressure performance indicators and manual stop switch. This image highlights the working pressure (4500 PSI), inflation rate (2800R/MIN), and high power (2200W), along with the pressure gauge and manual stop switch.

- Continuously monitor the pressure gauge and the temperature gauge during operation.
- Do not exceed the maximum pressure of 300 BAR / 4500 PSI.
- Typical filling times: Approximately 3 minutes to fill a 0.5-liter tank from 0 to 300 BAR, and approximately 45 minutes to fill a 6.8-liter tank from 0 to 300 BAR.

5.4 Stopping the Compressor

- Once the desired pressure is reached in your tank, manually turn off the compressor using the main power switch.
- Turn off the external water pump.
- Slowly release any residual pressure in the filling hose before disconnecting it from the tank.

6. MAINTENANCE

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

6.1 Oil Maintenance

- Regularly check the oil level before each use. Top up if necessary.
- Change the compressor oil periodically according to usage frequency or manufacturer recommendations (refer to specific oil type and change intervals in a more detailed manual if available).

6.2 Filter Maintenance

- The compressor includes a built-in water filter. Inspect and replace the filter elements as needed to maintain air quality.

6.3 Cooling System Maintenance

- Ensure the cooling water remains clean. Replace the water in the external bucket regularly.
- Inspect the water pump and hoses for any blockages or damage.

6.4 General Cleaning

- Keep the exterior of the compressor clean and free from dust and debris.
- Ensure the fan cooling vents are unobstructed for proper airflow.

7. TROUBLESHOOTING

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

7.1 Compressor Not Starting

- **Check Power:** Ensure the power cord is securely plugged into a working 110V outlet.
- **Power Switch:** Verify the main power switch is in the ON position.
- **Fuse:** Check if the fuse in the plug or extension lead has blown. Replace if necessary.

7.2 Not Reaching Target Pressure

- **Leaks:** Perform a bubble test on all connections (hoses, fittings, cylinder head gaskets) to identify and seal any leaks.
- **Gasket Damage:** Inspect cylinder head gaskets for damage or wear.
- **Relief Valve:** Check the pressure relief valve for proper sealing.

7.3 Overheating

- **Cooling Water:** Ensure the water cooling system is functioning correctly, the water pump is running, and there is

sufficient clean water.

- **Operating Duration:** Avoid exceeding the recommended 45-minute continuous running time. Allow the compressor to cool.
- **Fan Obstruction:** Check that the fan cooling vents are not blocked.

8. SPECIFICATIONS

TXEDM041 DOUBLE-CYLINDER PCP AIR COMPRESSOR

Flexible to use and make your paintball will fun

【Specifications】	
Max. Pressure	4500Psi/30Mpa/300Bar
Voitage	110V/220
compressor	automatically
Water-oil separator	External
Air flow rate	50L/min
Function	Turn off machine when required pressure reaches



【Accessory package】			
	① Power Cord		② Water Pump
	③ Blue Oil Water Filter with Hose		④ O-ring Seals
	⑤ Paper Gasket		⑥ Water hose

Figure 4: TUXING TXEDM041 Specifications and Accessory Package. This image details the maximum pressure, voltage, air flow rate, and lists included accessories such as power cord, water pump, filter, O-ring seals, paper gasket, and water hose.

Specification	Value
Brand	TUXING
Model Name	TXEDM041
Voltage	110V

Specification	Value
Frequency	60Hz
Power	2.2 kW (2200W)
Maximum Operating Pressure	30 MPa / 300 BAR / 4500 PSI
Air Flow Capacity	40 L/min
Cooling System	Water-cooled and Fan-cooled
Noise Level	78 Sones
Product Dimensions	20.47"L x 16.14"W x 16.14"H
Item Weight	28 Milligrams (Note: This value appears to be incorrect in the source data, actual weight is likely higher, e.g., 24kg as per image)
Material	Stainless Steel
Included Components	Built-In Water Filter

weight: 24kg

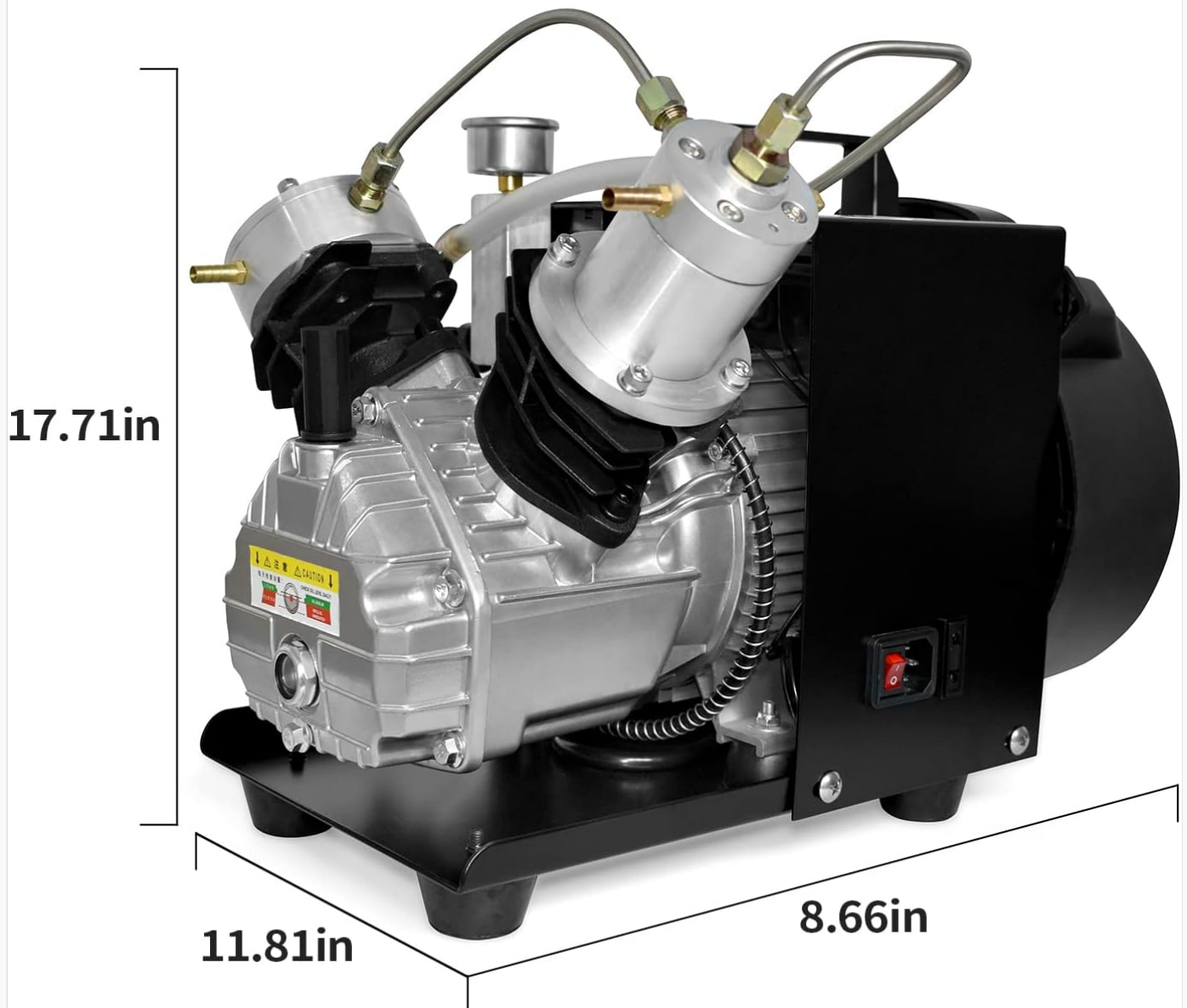


Figure 5: TUXING TXEDM041 Compressor Dimensions. This image provides a visual representation of the compressor's dimensions: 17.71 inches in height, 11.81 inches in depth, and 8.66 inches in width, with a stated weight of 24kg.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact TUXING customer support through the retailer where the product was purchased or visit the official TUXING website. Please have your model number (TXEDM041) and purchase date available when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

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