

TUXING TXEDB053

TUXING 4500Psi/300Bar High-Pressure Air Compressor User Manual

Model: TXEDB053 | Brand: TUXING

1. SAFETY INSTRUCTIONS

Read all safety warnings and instructions carefully 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.

- **Electrical Safety:** Ensure the power supply matches the compressor's requirements (110V, 60Hz, 30A). Use a grounded outlet. Do not operate in wet conditions.
- **High Pressure Hazard:** This compressor generates extremely high pressure (up to 4500 Psi/300 Bar). Always connect to appropriate high-pressure tanks and hoses. Never point the air outlet at people or animals.
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent overheating and accumulation of exhaust gases.
- **Oil and Lubrication:** Use only recommended ISO grade 100/150 lubricating oil. Regularly check and maintain oil levels.
- **Water and Condensate:** Regularly drain condensate from the oil-water separator and drain valves to prevent corrosion and maintain air quality.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.
- **Children and Bystanders:** Keep children and bystanders away from the operating compressor.

2. PRODUCT OVERVIEW

The TUXING TXEDB053 is a high-pressure air compressor designed for filling PCP rifles, paintball air guns, and diving scuba tanks. It features a four-stage compression system for efficient and rapid inflation.

Key Features:

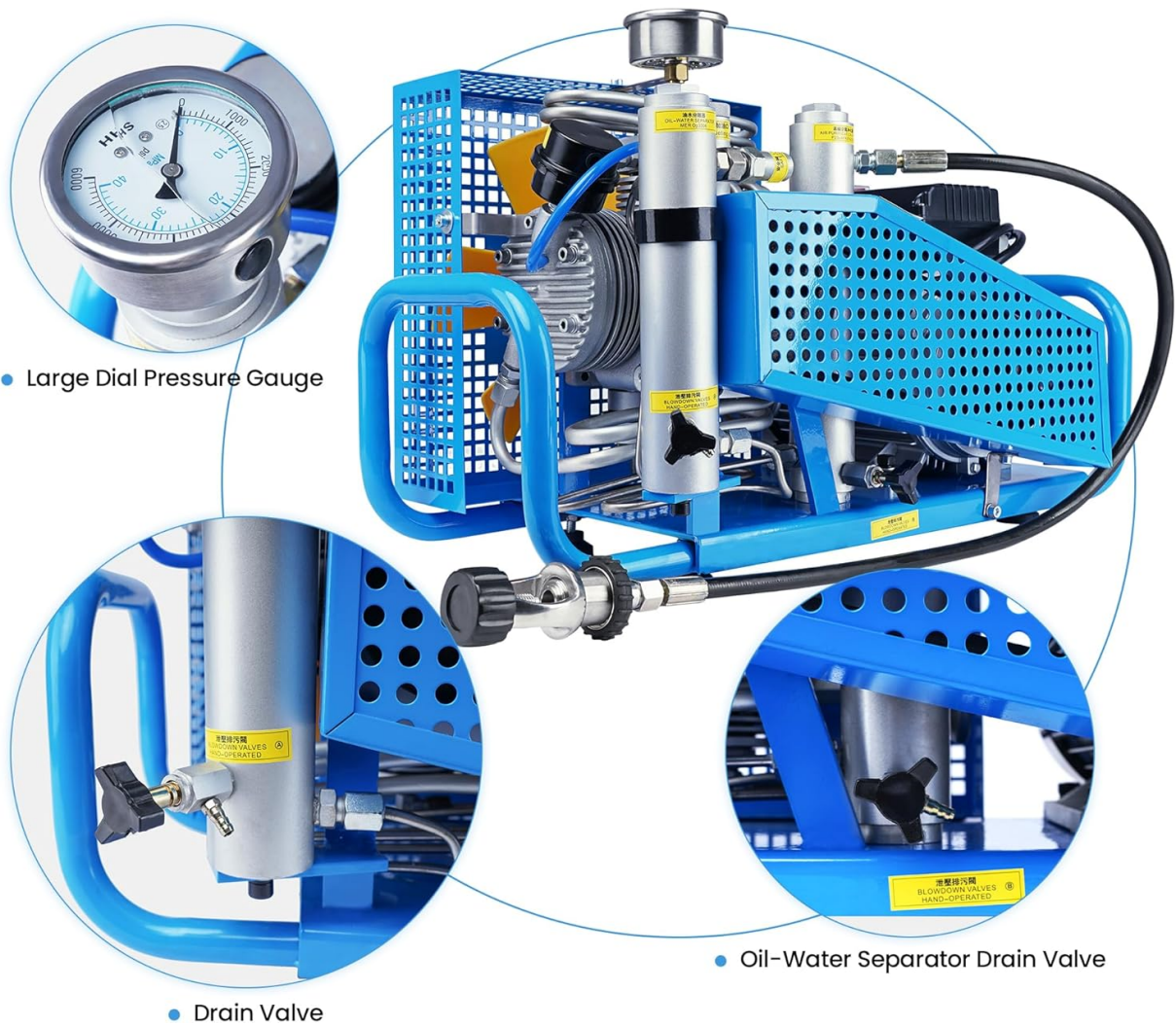
- **Power Supply:** 110V single phase, 60Hz, 2.2KW / 3HP, 30AMP.
- **Maximum Pressure:** Up to 20-30 Mpa / 200-300 Bar / 3000-4500 Psi.
- **Flow Rate:** 100 L/MIN / 3.5 CFM.
- **Breathing Air Standard:** Provides high-quality compressed air meeting EU EN12021 and GB18435-2001 standards.
- **Components:** Includes pump, intake filter, belt, cooling fan, oil separator & filter, safety valve, pressure switch, starter, frame, and isolator.

Component Identification:



This diagram illustrates the key components of the TUXING high-pressure air compressor, including the sewage valve (1), oil-water separator (2), pressure gauge (3), air purifier (4), safety valve (5), oil fill port (6), condensate pipe (7), cooling fans (8), carbon filter (9), quick plug-in air outlet (10), motor (11), and capacitor box (12).

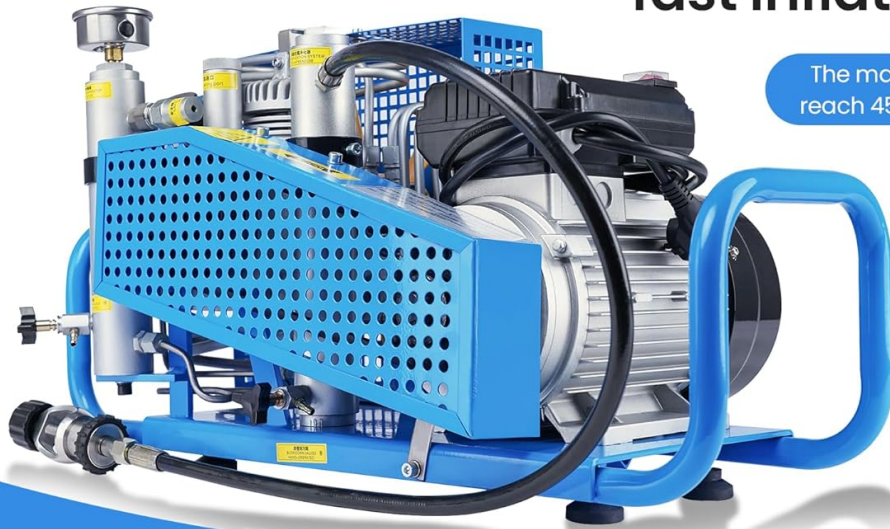
Double drain valve, more convenient to use



The compressor features a large dial pressure gauge for accurate readings and a double drain valve system, including a main drain valve and an oil-water separator drain valve, for convenient moisture and oil removal.

Four-stage compression cylinder, fast inflation speed

The maximum pressure can reach 4500Psi/300Bar/30Mpa



6.8L fills to 300Bar in 21 minutes



12L fills to 200Bar in 25 minutes

The TUXING air compressor utilizes a four-stage compression cylinder design, enabling fast inflation speeds. For example, a 6.8L tank can be filled to 300 Bar in 21 minutes, and a 12L tank to 200 Bar in 25 minutes, reaching a maximum pressure of 4500 Psi (300 Bar/30 Mpa).



This image shows the 110V high-pressure diving compressor, emphasizing its four-stage compression. Key components visible include the oil-water separator, air filter, and the included high-pressure hose. The compressor is rated for 4500 PSI maximum working pressure, 80 L/min flow rate, and 1500W power.

110V HIGH PRESSURE DIVING COMPRESSOR

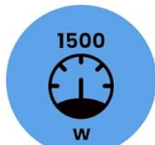
Four-stage Compression



Max. Working Pressure



Flow Rate



Power



Oil-Water Separator



Air Filter



Equipped with Hose

The compressor incorporates a triple filter system, utilizing molecular sieve and activated carbon, to ensure the compressed air meets EN12021 EN breathing air standards for purity.

3. SETUP

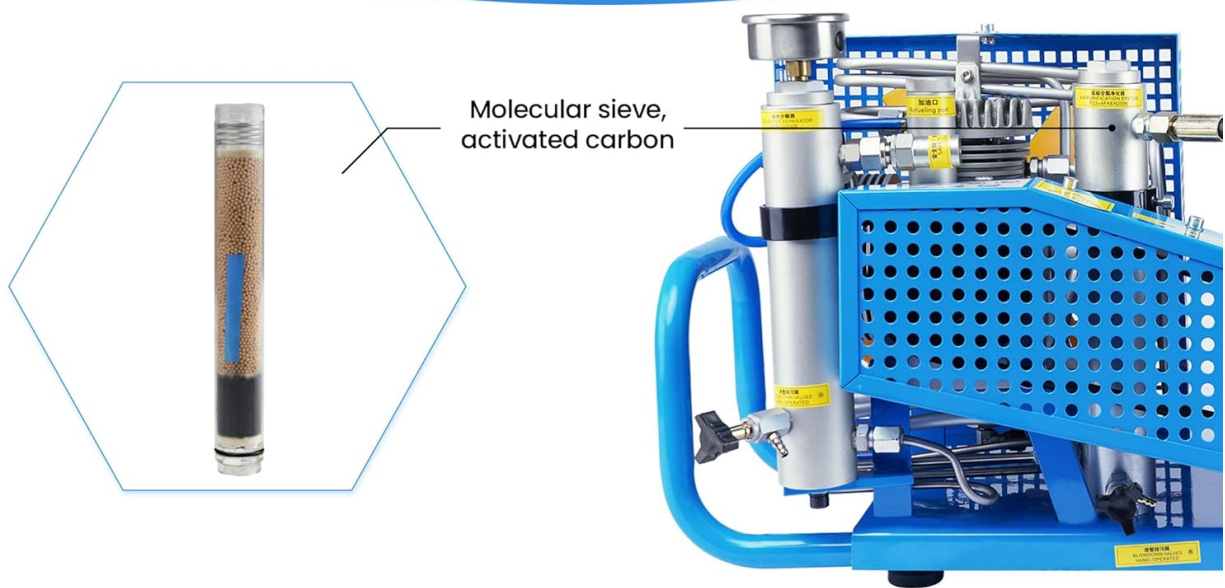
- 1. Unpacking:** Carefully remove the compressor and all accessories from the packaging. Inspect for any shipping damage.
- 2. Placement:** Position the compressor on a stable, level surface in a well-ventilated area, away from flammable materials. Ensure adequate space around the unit for air circulation and cooling.
- 3. Lubrication:** Fill the compressor with ISO grade 100/150 lubricating oil to the recommended level. Refer to the oil fill port (6) on the component diagram.
- 4. Filter Installation:** Ensure the air filter (intake filter) and carbon filter are correctly installed.
- 5. Electrical Connection:** Connect the compressor to a dedicated 110V, 60Hz, 30A grounded power outlet. Avoid using extension cords if possible; if necessary, use a heavy-duty, grounded extension cord rated for the compressor's current draw.
- 6. Hose Connection:** Attach the high-pressure hose to the quick plug-in air outlet (10) on the compressor.

4. OPERATING INSTRUCTIONS

1. **Prepare the Tank:** Ensure the tank you intend to fill is rated for the desired pressure and is in good condition. Connect the high-pressure hose from the compressor to the tank's fill valve.
2. **Open Tank Valve:** Slowly open the valve on the tank to be filled.
3. **Start Compressor:** Turn on the compressor. The unit will begin to build pressure.
4. **Monitor Pressure:** Continuously monitor the pressure gauge (3) on the compressor and the gauge on your tank. The compressor is equipped with a safety valve (5) that will automatically leak if the pressure exceeds the maximum safe limit.
5. **Automatic Shut-off:** Some models may feature an automatic shut-off when the target pressure is reached. If not, manually turn off the compressor once the desired pressure is achieved.
6. **Close Tank Valve:** Once filling is complete, close the valve on the tank.
7. **Release Pressure:** Slowly open the drain valve on the high-pressure hose to release any residual pressure before disconnecting the hose from the tank.
8. **Drain Condensate:** After each use, or regularly during extended operation, open the sewage valve (1) and oil-water separator drain valve to release accumulated moisture and oil.



Triple filter material makes the air purer
and can meet the Breathing air standard: EN12021 EN standard



The 80L/min diving air compressor is suitable for filling various high-pressure cylinders. It can fill iron or steel firefighting cylinders (300 Bar/4500 Psi) for firefighting applications and aluminum diving tanks (200 Bar/3000 Psi) for diving.



1	SEWAGE VALVE	2	OIL-WATER SEPARATOR	3	PRESSURE GAUGE
4	AIR PURIFIER	5	SAFETY VALVE	6	OIL FILL PORT
7	CONDENSATE PIPE	8	COOLING FANS	9	GARBON FILTER
10	QUICK PIUG-IN AIR OUTLET	11	MOTOR	12	CAPACITOR BOX

The TUXING high-pressure air compressor is versatile, suitable for filling diving tanks, supporting firefighting operations, refilling paintball guns, and assisting in various underwater operations.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your TUXING air compressor. Always disconnect the power supply before performing any maintenance.

- **Oil Level Check:** Check the oil level before each use. Add ISO grade 100/150 oil if necessary.
- **Oil Change:** Change the compressor oil after the first 20 hours of operation, then every 50-100 hours or every 3 months, whichever comes first.
- **Drain Condensate:** Drain the oil-water separator and sewage valve after each use to remove moisture and prevent corrosion.
- **Filter Replacement:** Regularly inspect and replace the air intake filter and carbon filter elements as needed, typically every 20-30 hours of operation, or if you notice a decrease in air quality or flow.
- **Cleaning:** Keep the exterior of the compressor clean and free of dust and debris. Ensure cooling fins and fans are unobstructed for efficient heat dissipation.
- **Belt Inspection:** Check the drive belt for wear and proper tension periodically.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Compressor does not start	No power; tripped circuit breaker; faulty switch.	Check power connection; reset circuit breaker; contact support.
Slow filling or low pressure	Clogged air filter; leaks in hose/connections; worn piston rings.	Replace air filter; check all connections for leaks; contact support.
Excessive noise or vibration	Loose components; worn bearings; insufficient oil.	Tighten fasteners; check oil level; contact support.
Oil or water discharge from air outlet	Oil-water separator not draining; excessive oil level.	Regularly drain oil-water separator; check oil level.
Overheating	Poor ventilation; clogged cooling fins; low oil level.	Ensure proper ventilation; clean cooling fins; check oil level.

7. SPECIFICATIONS

Specification	Value
Brand	TUXING
Model Number	TXEDB053
Power Supply	110V, 60HZ, Single Phase
Power	2.2KW / 3HP (2200 Watts)
Current	30 Amps (Instantaneous starting current: 30A)
Flow Rate	100 L/MIN / 3.5 CFM
Maximum Pressure	300 Bars / 4500 Psi / 30 Mpa
Noise Level	85 Decibels
Recommended Lubricant	ISO grade 100/150
Material Type	Iron
Item Weight	55 Kilograms
Item Dimensions (L x W x H)	30.71"L x 17.72"W x 18.9"H
Included Components	PCP air filter, PCP hose, Scuba compressor
UPC	770642671073

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact TUXING customer service directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Xiamen Subang Technology Co.,Ltd.

For further assistance, please visit the official TUXING website or contact your retailer.

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