

TUXING TXF004-S

TUXING 4500Psi PCP Air Filter Instruction Manual

MODEL: TXF004-S

Brand: TUXING

INTRODUCTION

This manual provides detailed instructions for the safe and efficient use of your TUXING 4500Psi PCP Air Filter, Model TXF004-S. Please read this manual thoroughly before operation and retain it for future reference.

The TUXING 4500Psi PCP Air Filter features a two-stage filtration system. The first stage is a water-oil separator, utilizing physical principles of gas reflux, variable diameter cooling, and vapor condensation. The second stage is an air filter with an active carbon element to absorb moisture and odors. This system effectively separates approximately 95% of oil and water, ensuring clean air output.

SAFETY INFORMATION

- Always ensure all connections are securely fastened to prevent air leaks.
- Operate the filter within its specified maximum operating pressure of 4500 PSI.
- Regularly inspect the filter for any signs of damage or wear.
- Replace filter elements as recommended to maintain optimal performance and safety.
- Keep the product away from children and unauthorized personnel.
- Refer to the air compressor's manual for additional safety guidelines.

PRODUCT FEATURES

- **Dual Filtration System:** Incorporates a water-oil separator and an active carbon air filter for comprehensive air purification.
- **High Pressure Resistance:** Constructed with aviation-grade aluminum alloy for durability and resistance to high

pressure.

- **Effective Moisture & Odor Absorption:** Active carbon element effectively absorbs moisture and odors from the air.
- **Safety Valve:** Equipped with a safety valve for pressure regulation.
- **Compatibility:** Designed to be compatible with various air compressors. Ensure connector compatibility.



Figure 1: TUXING 4500Psi PCP Air Filter connected to an air compressor, illustrating its key features.

FOUR STAGE PURIFY DEEPLY FILTRATION

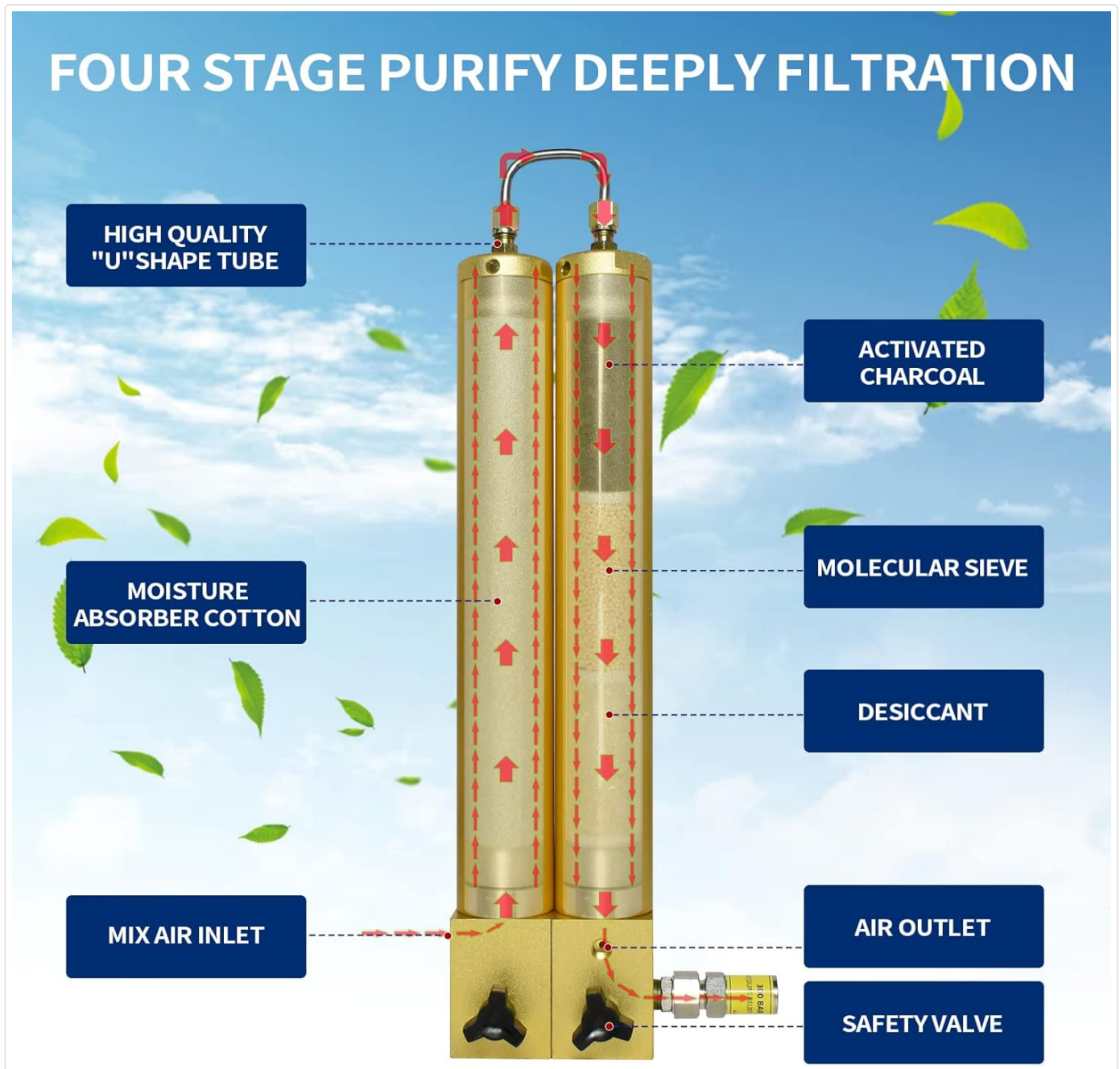


Figure 2: Internal view of the filter showing the four-stage purification process with activated charcoal, molecular sieve, and desiccant.

PACKAGE CONTENTS

Upon receiving your product, please verify that all items listed below are included:

- 1x TUXING 4500Psi PCP Air Filter
- 3x Spare Filler Bottles (Activated Charcoal, Molecular Sieve, Desiccant)
- 1x Set of Spare Sealing O-rings
- 1x Hose with Female Connector
- Filter elements (Moisture absorber cotton, activated charcoal, molecular sieve, desiccant)

PCP WATER-OIL SEPARATOR



Figure 3: All components included in the TUXING 4500Psi PCP Air Filter package.

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Video 1: Unboxing and overview of the TUXING PCP Air Filter components. (Relevant segment: 1:25 - 1:41)

SETUP INSTRUCTIONS

1. Connect the Soft Hose to the Filter:

Connect one end of the soft hose to the designated port on the filter. Ensure there is one white seal disc between the soft hose and the filter for a secure connection. Fasten it tightly using a wrench to prevent air leakage.

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Video 2: Demonstrates connecting the soft hose to the filter. (Relevant segment: 1:48 - 2:15)

2. Connect the Filter to the Air Compressor and Air Bottle:

The stainless steel male connector on the filter should be connected to your air compressor. The female connector at the other end of the hose should be connected to the air bottle you intend to fill. Ensure all connections are tight to prevent any air leaks.

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Video 3: Illustrates connecting the filter to the air compressor and air bottle. (Relevant segment: 2:16 - 2:29)

OPERATING INSTRUCTIONS

1. **Initial Checks:** Before starting, ensure all connections are secure and the bleed valve on the filter is closed.
2. **Power On:** Connect the air compressor to a power source and turn on the main power switch.
3. **Start Compression:** Press the 'Start' button on your air compressor. Monitor the pressure gauge on the filter and the compressor.
4. **Monitor Pressure:** Continuously monitor the pressure during operation. Do not exceed the maximum operating pressure of 4500 PSI.
5. **Stop Compression:** Once the desired pressure is reached, turn off the air compressor.
6. **Release Pressure:** Slowly open the bleed valve on the filter to release any remaining pressure in the system before disconnecting the hose.

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Video 4: Demonstrates the general operation of an air compressor with a filter, including starting and stopping. (Relevant segment: 0:20 - 0:40)

MAINTENANCE

Filter Element Replacement

The filter elements (activated carbon, molecular sieve, desiccant) need to be changed after filling approximately 360 liters of gas or when you notice a decrease in filtration efficiency or a change in air quality.

1. **Depressurize the System:** Ensure the air compressor is off and all pressure has been released from the system by opening the bleed valve.
2. **Disassemble the Filter:** Use a screwdriver to open the screws at both ends of the filter body. Carefully unscrew and separate the filter components.
3. **Remove Old Fillers:** Remove the used moisture absorber cotton, activated charcoal, molecular sieve, and desiccant from the transparent inner tube.
4. **Insert New Fillers:** Place new filter elements into the transparent inner tube in the correct order (refer to Figure 2 for guidance). Ensure the moisture absorber cotton is at the bottom, followed by activated charcoal, molecular sieve, and desiccant.
5. **Reassemble:** Carefully reassemble the filter components, ensuring all O-rings are properly seated and connections are tight.

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Video 5: Detailed instructions on how to replace the filter elements. (Relevant segment: 3:04 - 5:08)

General Cleaning and Storage

- Wipe the exterior of the filter with a clean, dry cloth.
- Store the filter in a cool, dry place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Air Leakage	Loose connections, damaged O-rings, improper sealing.	Check all connections and tighten them with a wrench. Inspect O-rings for damage and replace if necessary. Ensure seal discs are correctly positioned.
Poor Filtration (moisture/oil in air)	Saturated filter elements.	Replace the filter elements (activated charcoal, molecular sieve, desiccant).
Difficulty Disassembling Filter	Threads are too tight or rough.	Apply a small amount of thread lubricant or PTFE tape to the threads during reassembly to ease future disassembly.

SPECIFICATIONS

- **Brand:** TUXING
- **Model Name:** TXF004
- **Model Number:** TXF004-S
- **Maximum Operating Pressure:** 4500 PSI
- **Capacity (Filter Element Life):** Approx. 360 Liters of gas
- **Item Weight:** 4.5 Kilograms
- **Color:** Gold
- **Material:** Aviation grade aluminum alloy
- **Special Feature:** Oil-free
- **Dimensions:** Length 408mm, Width 100mm (as per product title)



Figure 4: Dimensions of the TUXING 4500Psi PCP Air Filter (408mm version shown).

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Video 6: Provides detailed dimensions and weight of a similar filter. (Relevant segment: 0:42 - 1:24)

WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your TUXING 4500Psi PCP Air Filter, please contact the manufacturer or your retailer. Keep your purchase receipt as proof of purchase.

You can also visit the official TUXING Store on Amazon for more information and support: [TUXING Store](#)