

TUXING TXF02

TUXING 4500Psi PCP Compressor Oil Water Filter (Model TXF02) Instruction Manual

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, setup, operation, and maintenance of your TUXING 4500Psi PCP Compressor Oil Water Filter, Model TXF02. This high-pressure air filter is designed to efficiently separate oil and water from compressed air, ensuring cleaner air for PCP air rifles and scuba tank filling. Constructed from aerospace aluminum with a gold anodized surface, it offers robust performance and durability.

The filter is compatible with various air pumps and compressors, capable of filtering approximately 90-95% of water and oil, and has successfully passed 50Mpa high-pressure tests. Proper adherence to these instructions will ensure optimal performance and extend the lifespan of your filter.

2. SAFETY INFORMATION

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

- Always wear appropriate personal protective equipment, including eye protection, when handling high-pressure air systems.
- Ensure all connections are secure and leak-free before operating the filter. High-pressure leaks can be dangerous.
- Do not exceed the maximum rated pressure of 4500Psi (50Mpa) for this filter.
- Never point the filter or connected hoses at yourself or others when under pressure.
- Keep the filter away from heat sources, open flames, and flammable materials.
- Perform regular maintenance as described in this manual to ensure safe operation.
- Store the filter in a clean, dry place when not in use.
- This product is not a toy. Keep out of reach of children.

3. PRODUCT OVERVIEW AND COMPONENTS

The TUXING TXF02 Oil Water Filter is designed for deep filtration, utilizing a multi-stage system to purify compressed air. Its robust construction ensures durability and high-pressure resistance.

3.1 Key Features

- **Material:** Aerospace aluminum with gold anodized surface for corrosion resistance and durability.
- **Filtration Efficiency:** Separates 90-95% of water and oil from compressed air.
- **Pressure Rating:** Tested up to 50Mpa (approximately 7250Psi), suitable for 4500Psi systems.
- **Connectors:** M10*1.8mm male connector and 8mm & M10*1.8mm female quick connector for versatile compatibility.
- **Multi-stage Filtration:** Includes molecular sieve, activated carbon, and moisture-resistant beads.

3.2 Components

The filter system consists of the main filter housing, internal filter elements, and connection fittings.



Figure 1: TUXING Oil Water Filter with dimensions and M10*1 male and 8mm & M10*1 female quick connectors.

FOUR STAGE PURIFY DEEPLY FILTRATION



Figure 2: Internal filtration layers: Moisture Absorber Cotton, Activated Charcoal, Molecular Sieve, and Desiccant.

HIGH PRESSURE RESISTANCE

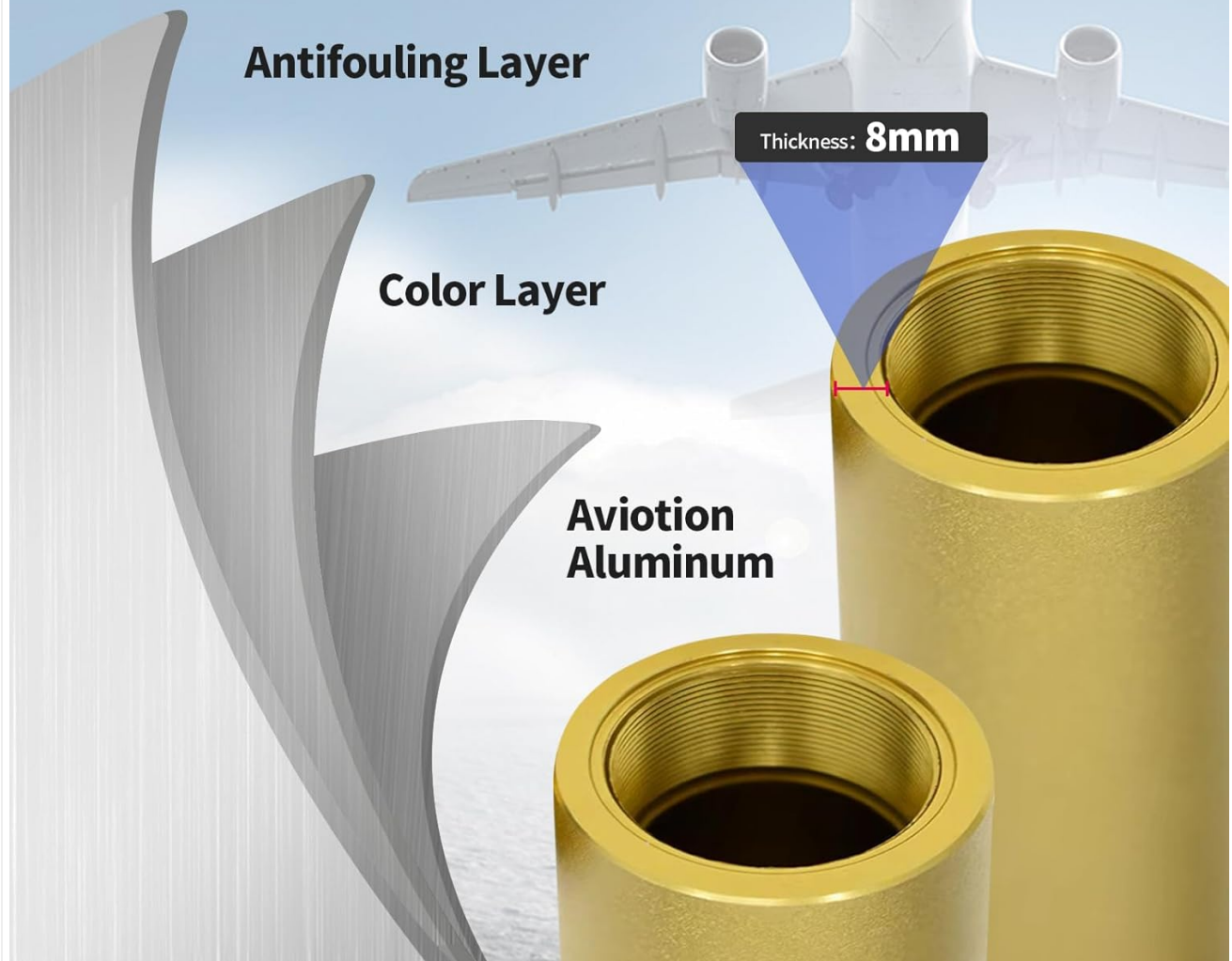


Figure 3: High-pressure resistant construction featuring aviation aluminum with an 8mm thickness.

4. SETUP INSTRUCTIONS

Follow these steps to properly set up your TUXING Oil Water Filter:

1. **Unpack Components:** Carefully remove all items from the packaging. Verify that all components listed in the 'Included Components' section are present.
2. **Inspect Filter Elements:** Ensure the internal filter elements (moisture absorber cotton, activated charcoal, molecular sieve, desiccant) are correctly installed within the filter housing. Refer to Figure 2 for correct layering.
3. **Connect to Compressor:** Attach the M10*1.8mm male connector of the filter to the output port of your air compressor or pump. Ensure the connection is tight and secure.
4. **Connect to Air Device:** Connect the 8mm or M10*1.8mm female quick connector (soft hose) to your PCP air rifle, scuba tank, or other high-pressure air device.
5. **Check for Leaks:** Before full operation, perform a low-pressure leak test. Apply a small amount of pressure and listen for hissing sounds or use a soapy water solution to detect bubbles at connection points. Tighten any

leaking connections.

6. **Orientation:** The filter should generally be installed vertically with the air flow direction indicated (if any) or with the inlet at the top to allow gravity to assist in water separation.



Figure 4: Example setup showing the filter connected to a compressor.

5. OPERATING INSTRUCTIONS

Once the filter is properly installed and all connections are secure, you can begin operation:

1. **Start Compressor:** Turn on your air compressor or pump according to its manufacturer's instructions.
2. **Monitor Pressure:** Carefully monitor the pressure gauge on your compressor and the receiving air device to ensure it does not exceed the safe operating pressure.
3. **Drain Water/Oil:** During and after operation, periodically check the filter for accumulated water and oil. The filter is designed to separate these contaminants. Some models may have a drain valve at the bottom; if so, open it carefully to release accumulated liquids after depressurizing the system.
4. **Complete Filling:** Once the desired pressure is reached in your air device, turn off the compressor.

5. **Depressurize and Disconnect:** Safely depressurize the system before disconnecting the filter from the air device and compressor.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and efficiency of your TUXING Oil Water Filter. The filter elements have a lifespan of approximately 40 fills of a 6.8-liter high-pressure gas bottle.

6.1 Filter Element Replacement

The filter includes a free set of filter cotton, which can be recycled. The molecular sieve, activated carbon, and moisture-resistant beads will also need periodic replacement.



Figure 5: Disassembled filter with replacement components including O-rings, filter cotton, desiccant, activated charcoal, and molecular sieve.

1. **Depressurize System:** Ensure the filter is completely depressurized before attempting any maintenance.
2. **Disassemble Filter:** Carefully unscrew the ends of the filter housing to access the internal filter cartridge.
3. **Remove Old Elements:** Remove the used moisture absorber cotton, activated charcoal, molecular sieve, and desiccant. Dispose of them responsibly.
4. **Clean Housing:** Clean the inside of the filter housing with a clean, dry cloth.
5. **Install New Elements:** Insert new filter elements in the correct order as shown in Figure 2: moisture absorber cotton, activated charcoal, molecular sieve, and desiccant.
6. **Replace O-rings:** Inspect the O-rings for wear or damage. Replace them with new ones if necessary to ensure a proper seal.
7. **Reassemble Filter:** Carefully screw the filter ends back onto the housing, ensuring they are hand-tightened. Do not overtighten.
8. **Test for Leaks:** After reassembly, perform a leak test as described in the Setup Instructions before resuming full operation.

6.2 General Care

- Keep the exterior of the filter clean and free from dirt and debris.
- Avoid dropping or subjecting the filter to harsh impacts.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your oil water filter.

Problem	Possible Cause	Solution
Air leakage at connections	Loose connections, damaged O-rings, incorrect thread sealant.	Tighten all connections. Inspect and replace O-rings if damaged. Ensure proper thread sealant (if applicable) is used.
Reduced air flow through filter	Clogged filter elements.	Replace filter elements (moisture absorber cotton, activated charcoal, molecular sieve, desiccant) as per maintenance instructions.
Water/oil still present in air output	Saturated filter elements, incorrect installation, excessive moisture in input air.	Replace filter elements. Ensure filter is installed correctly and vertically. Consider adding a pre-filter if input air is excessively wet.
Difficulty disassembling filter	Overtightened connections, debris in threads.	Ensure system is depressurized. Use appropriate tools if necessary, but avoid excessive force. Clean threads if debris is present.

8. SPECIFICATIONS

Attribute	Detail
Brand	TUXING
Model Number	TXF02

Attribute	Detail
Item Type Name	Oil Water Separator
Material	Aluminum
Color	Gold
Item Dimensions (L x W x H)	27.5L x 3W x 3H centimeters
Item Weight	1.9 Kilograms
Compatible Hose Diameter	8 Millimeters
Connectors	M10*1.8mm Male, 8mm & M10*1.8mm Female Quick Connector
Filtration Efficiency	90-95% water and oil separation
Pressure Test	Passed 50Mpa high-pressure test
Included Components	Filter wool set, molecular sieve, activated carbon filter, moisture-resistant bead filter
Country of Origin	China
UPC	787477955674
GTIN	787477955674

9. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the purchase documentation or contact your retailer. Standard return policies typically allow for returns within 30 days of purchase.

For technical support or inquiries, please contact the manufacturer, Xiamen Subang Technology Co.,Ltd., or the seller, TUXING, through your original point of purchase.