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› TUXING TXF004-L High-Pressure Air Filter Oil-Water Separator User Manual

TUXING TXF004-L

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Model: TXF004-L

1. INTRODUCTION

Thank you for choosing the TUXING TXF004-L High-Pressure Air Filter Oil-Water Separator. This device is designed to purify compressed air by effectively removing oil, water, and odors, ensuring a clean and dry air supply for various high-pressure applications such as PCP airguns, scuba diving tanks, and paintball systems. Please read this manual thoroughly before installation and operation to ensure safe and optimal performance.



Figure 1.1: TUXING TXF004-L High-Pressure Air Filter Oil-Water Separator, showing the dual filter cylinders, connecting hoses, and an upgraded safety valve. The image highlights the model number TXF004-L, size 408mm*100mm, filter element (Cotton + Filter media), and safety valve feature.

2. SAFETY INFORMATION

WARNING: High-pressure air can be extremely dangerous. Failure to follow these safety instructions may result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE), including eye protection, when handling high-pressure equipment.
- Ensure all connections are secure and leak-free before pressurizing the system.
- Never exceed the maximum rated pressure of 30 MPa (300 BAR / 4500 PSI) for this filter.
- Do not modify the filter or its components. Use only genuine TUXING replacement parts.
- Keep children and unauthorized personnel away from the operating area.
- Regularly inspect the filter for any signs of damage, wear, or corrosion. Do not use if damaged.
- The integrated safety valve is designed to automatically release pressure if it exceeds the set limit. Do not tamper with or disable this valve.

PRODUCTS VIEWS

IT IS MORE CONVENIENT WHEN DISASSEMBLY OR REPLACE ITS PARTS.THE FILTER CAN BE DISMANTLED INDIVIDUALLY, CONTACT OUR CUSTOMER SERVICE IF YOU NEED HELP.



8mm female connector

Figure 2.1: Safety Valve Upgrade. The new version (right) automatically purges air after reaching the set pressure, eliminating the need to replace burst disks during maintenance, enhancing safety and convenience.

3. PRODUCT OVERVIEW AND COMPONENTS

The TUXING TXF004-L features a robust design with a two-stage filtration system housed in aviation-grade aluminum alloy cylinders.

3.1 Filtration System

This filter employs a dual-stage purification process:

- First Stage (Oil-Water Separator):** Utilizes physical principles of gas reflux, variable diameter cooling, and vapor condensation to effectively separate oil and water from the compressed air.
- Second Stage (Activated Carbon Filter):** Contains activated carbon particles to absorb residual moisture and odors, ensuring the air is clean and free from contaminants.

FOUR STAGE PURIFY DEEPLY FILTRATION

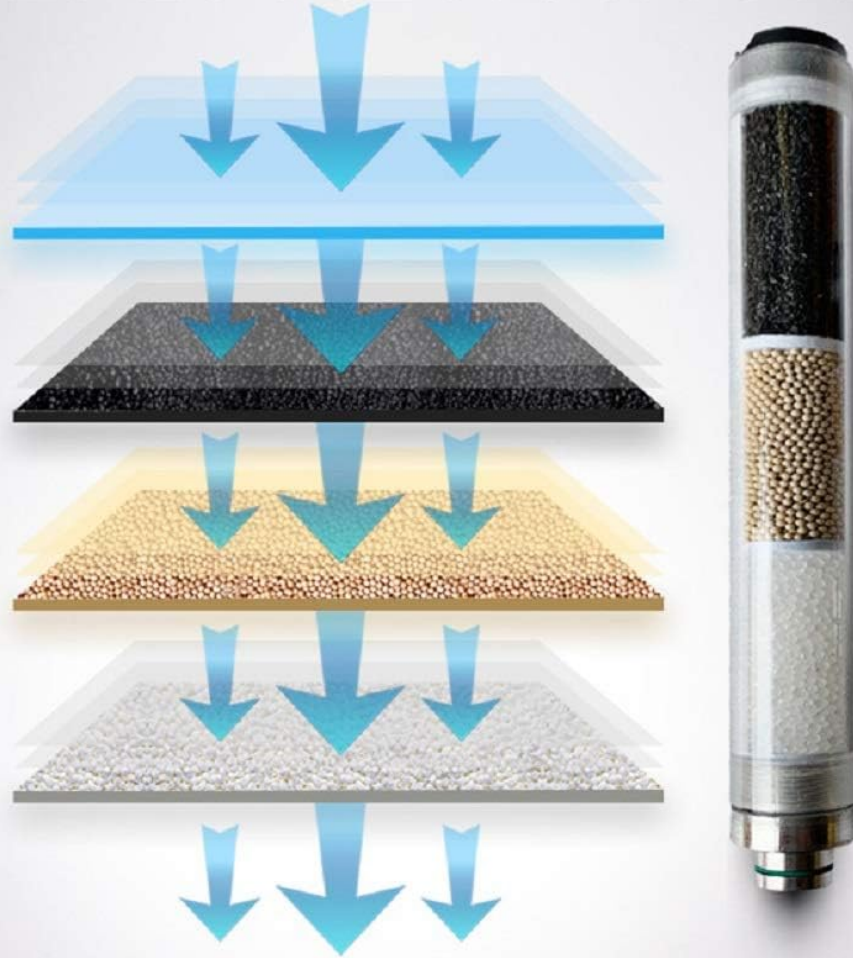


Figure 3.1: Diagram illustrating the multi-stage deep filtration process, showing how air passes through different media layers for purification.

3.2 Construction and Materials

The filter casing is constructed from thickened aviation-grade aluminum alloy, providing exceptional durability and resistance to high pressure. This material ensures safety and reliability under demanding conditions.

8MM WALL THICKNESS

Thickened aviation aluminum alloy, ensuring safety and sturdiness, durable and non-deformation, 8mm thickness is far more than similar products, quality assurance and reliable.

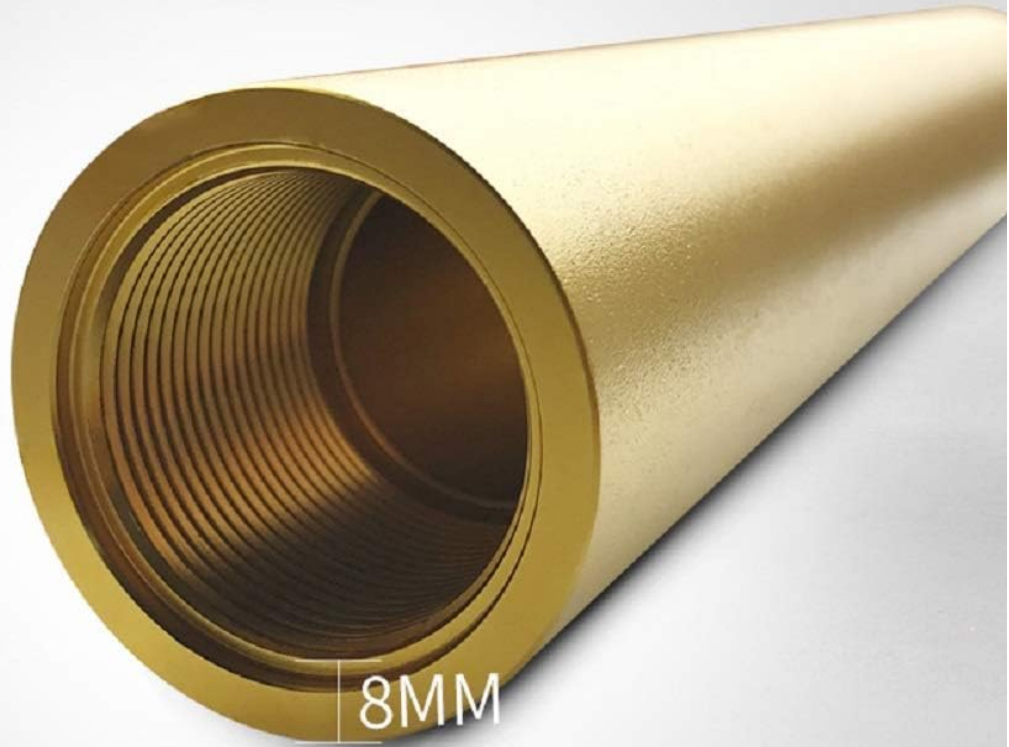


Figure 3.2: Close-up view highlighting the 8mm wall thickness of the filter cylinder, demonstrating its robust construction for high-pressure applications.

PROFESSIONAL AVIATION ALUMINUM

Top grade material makes it can bear high pressure pressure. To ensure high strength and fatigue resistance, and the made of this material filter tube guarantees stability, it is production meets the manufacturing standards.

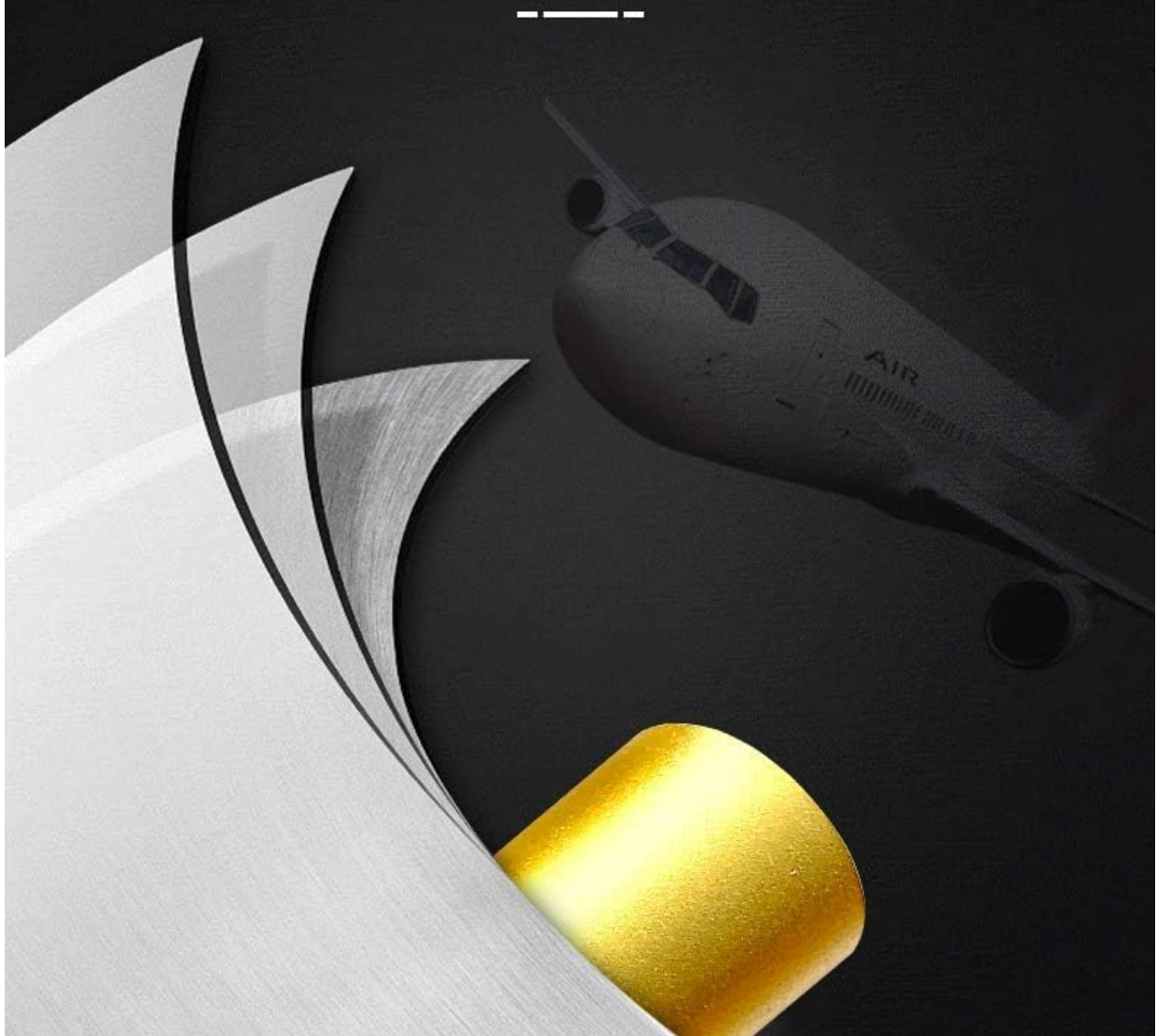


Figure 3.3: Visual representation emphasizing the use of professional aviation aluminum, a top-grade material chosen for its high strength, fatigue resistance, and ability to withstand high pressure.

3.3 Included Components

The package typically includes the following items:

- TUXING TXF004-L High-Pressure Air Filter Oil-Water Separator unit

- High-pressure hoses (quantity may vary)
- Replacement filter elements (cotton pads, activated carbon, molecular sieve)
- Sealing rings/O-rings
- Instruction Manual

PRODUCTS DISPLAY



Figure 3.4: Product display showing the main filter unit, connecting hoses, and various accessories, including filter media and seals, as typically packaged.

MULTIPLE CHOICES

OPTIONAL CONFIGURATION DISPLAY

THIS FILTER WIDELY USE IN PCP COMPRESSOR OR DIVING COMPRESSOR AND OTHER FIELDS.



Double cylinder compressor

Single cylinder compressor

Figure 3.5: Disassembled view of the filter, illustrating its individual components such as the filter cylinders, internal filter elements, and an 8mm female connector. This view demonstrates the ease of disassembly for maintenance.

4. SETUP

Follow these steps to properly set up your TUXING TXF004-L filter:

1. **Unpack Components:** Carefully remove all items from the packaging and inspect them for any damage.
2. **Assemble Filter Elements:** Ensure the internal filter elements (cotton pads, activated carbon, molecular sieve) are correctly inserted into the filter cylinders as per the diagram (refer to Figure 3.1).
3. **Connect Hoses:** Attach the high-pressure hoses to the inlet and outlet ports of the filter. Ensure all connections are tightened securely to prevent leaks.
4. **Connect to Compressor:** Connect the filter's inlet to your air compressor's outlet.
5. **Connect to Filling Device:** Connect the filter's outlet to your filling device (e.g., PCP airgun, scuba tank, paintball tank).
6. **Check Compatibility:** Verify that the connectors are compatible with your compressor and filling device. If not, an appropriate adapter may be required (e.g., 8mm female connector, as shown in Figure 3.5).

MULTIPLE CHOICES OPTIONAL CONFIGURATION DISPLAY

THIS FILTER WIDELY USE IN PCP COMPRESSOR OR DIVING
COMPRESSOR AND OTHER FIELDS.



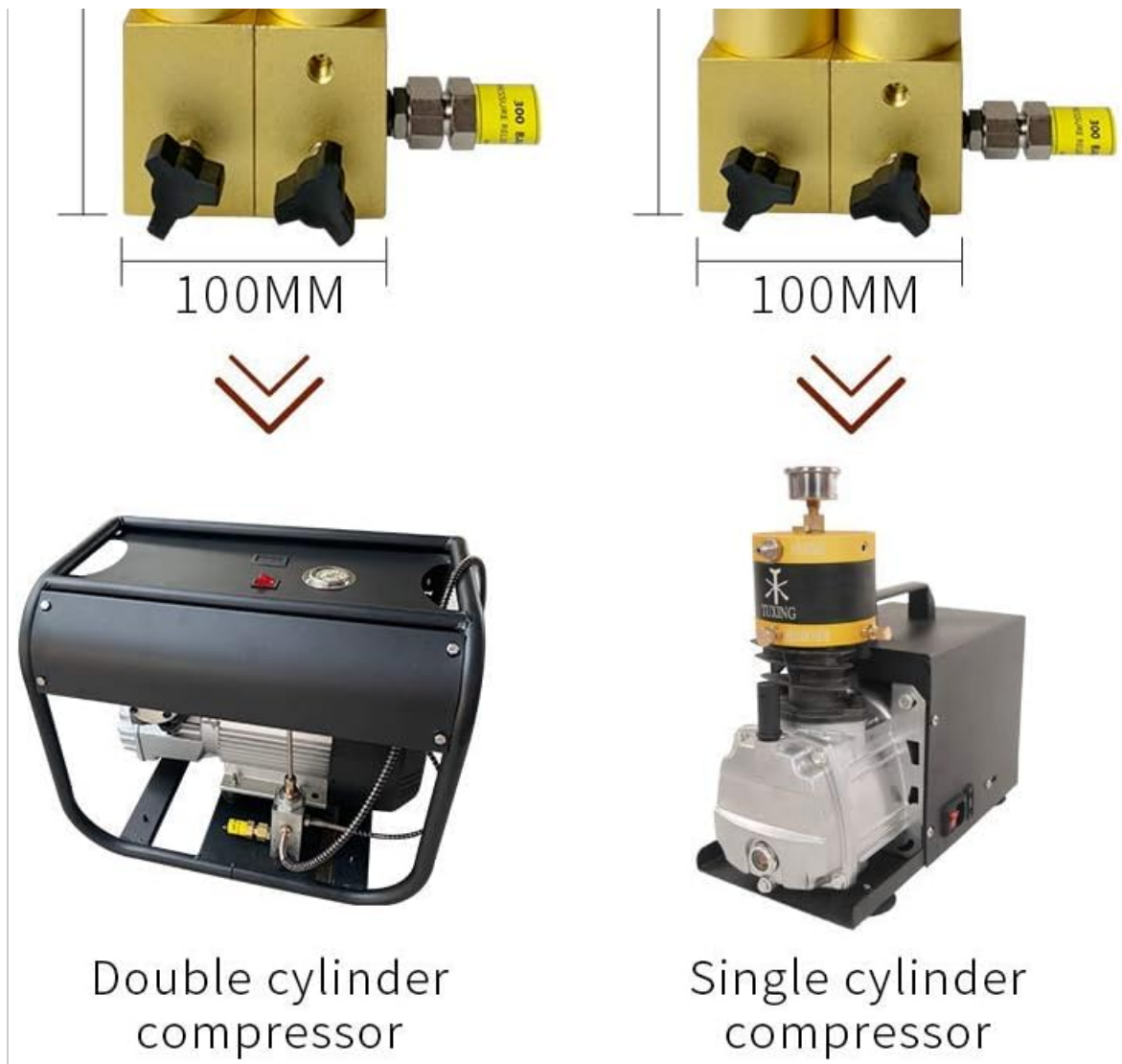


Figure 4.1: Display of filter dimensions (408mm and 286mm height options, 100mm width) and examples of compatible double and single cylinder air compressors. This illustrates the filter's versatility and connection points.

5. OPERATING INSTRUCTIONS

Once the filter is properly set up, follow these steps for operation:

1. **Open Drain Valve:** Before starting the compressor, ensure the drain valve at the bottom of the filter is closed.
2. **Start Compressor:** Turn on your air compressor and allow it to build pressure.
3. **Monitor Pressure:** Continuously monitor the pressure gauge on your compressor and/or filling device. Do not exceed the maximum rated pressure of the filter or your receiving tank.
4. **Fill Tank:** Once the desired pressure is reached in your receiving tank, turn off the compressor.
5. **Depressurize System:** Slowly open the bleed valve on your compressor or the drain valve on the filter to release residual pressure from the system before disconnecting.
6. **Drain Moisture:** After each use, or periodically during extended use, open the drain valve at the bottom of the filter to release any accumulated oil and water. Close the valve once drained.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your filter.

6.1 Draining Accumulated Moisture and Oil

As mentioned in the operating instructions, it is essential to drain the accumulated oil and water from the filter after each use. This prevents saturation of the filter media and ensures efficient purification.

6.2 Filter Cartridge Replacement

The activated carbon filter cartridge needs to be replaced periodically. It is recommended to replace the filter cartridge after approximately 360 liters of gas have been processed, or if you notice a decrease in air quality (e.g., presence of moisture or odor).

1. **Depressurize:** Ensure the entire system is fully depressurized before attempting any maintenance.
2. **Disassemble:** Carefully unscrew the filter cylinders. The filter can be dismantled individually for easier access to the cartridges.
3. **Remove Old Cartridge:** Remove the used activated carbon cartridge and cotton pads.
4. **Insert New Cartridge:** Insert new cotton pads and a fresh activated carbon cartridge. Ensure they are seated correctly.
5. **Reassemble:** Screw the filter cylinders back together, ensuring all O-rings are properly seated and connections are tight.

For assistance with disassembly or replacement, please contact customer service.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Air leakage	Loose connections, damaged O-rings, incorrect assembly.	Check all connections and tighten. Inspect O-rings for damage and replace if necessary. Ensure filter elements are correctly seated.
Moisture in air output	Saturated filter cartridge, insufficient draining.	Replace the activated carbon filter cartridge. Ensure regular draining of accumulated moisture.
Odor in air output	Saturated activated carbon filter.	Replace the activated carbon filter cartridge.
Pressure not building	Drain valve open, severe leak, compressor issue.	Ensure drain valve is closed. Check for leaks. Verify compressor functionality.

8. SPECIFICATIONS

Feature	Specification
Model	TXF004-L
Brand	TUXING
Maximum Pressure	30 MPa (300 BAR / 4500 PSI)
Dimensions (L x D)	408 mm x 100 mm (approximate)

Feature	Specification
Material	Aviation Aluminum Alloy
Filtration Stages	2-stage (Oil-Water Separator + Activated Carbon)
Filter Element Life	Approx. 360 L of gas
UPC	787477955544

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Xiamen Subang Technology Co.,Ltd.