

TUXING TXF02

TUXING 4500PSI PCP Air Compressor Desiccant Filter Tube

Model: TXF02

INTRODUCTION

This instruction manual provides essential information for the proper use, installation, maintenance, and troubleshooting of your TUXING 4500PSI PCP Air Compressor Desiccant Filter Tube. This filter is designed to effectively separate water and oil from high-pressure air, ensuring dry and clean air for your PCP air compressor system. Please read this manual thoroughly before operation to ensure optimal performance and longevity of the product.

PRODUCT OVERVIEW

The TUXING Desiccant Filter Tube is a crucial component for maintaining the quality of compressed air. It utilizes molecular sieve material to absorb moisture and separate oil, preventing damage to sensitive equipment and ensuring consistent performance.

Components

- **Desiccant Filter Tube:** The main transparent tube containing the molecular sieve desiccant beads.
- **Outer Casing (Optional/Accessory):** A protective gold-colored metal tube that houses the desiccant filter tube.
- **End Caps/Connectors:** Threaded components for connecting the filter to the air compressor system.
- **Molecular Sieve Beads:** The absorbent material inside the tube responsible for moisture and oil removal.



Figure 1: TUXING Desiccant Filter Tube, showing the transparent tube filled with desiccant beads.



Figure 2: Disassembled view of the desiccant filter tube alongside its gold-colored outer casing and end connectors.



Figure 3: The TUXING Desiccant Filter Tube with approximate dimensions indicated (350mm length, 50mm diameter).

SETUP AND INSTALLATION

Proper installation is crucial for the effective operation of the desiccant filter. Ensure all connections are secure and leak-free.

Installation Steps:

1. **Identify Connection Points:** Locate the high-pressure air outlet on your PCP air compressor and the inlet on your air tank or device requiring filtered air.
2. **Prepare the Filter:** Ensure the desiccant filter tube is clean and free of debris. If replacing an old filter, dispose of

the old desiccant material properly.

3. **Connect Inlet:** Attach one end of the desiccant filter tube to the high-pressure air outlet of your compressor. Use appropriate high-pressure fittings and ensure a tight seal. It is recommended to use thread sealant or PTFE tape if necessary, though typically O-rings provide the seal.
4. **Connect Outlet:** Attach the other end of the desiccant filter tube to the inlet of your air tank or device. Again, ensure a secure and leak-free connection.
5. **Positioning:** Position the filter tube vertically if possible, with the air flowing from bottom to top, to maximize water and oil separation efficiency.
6. **Leak Check:** Before full operation, perform a low-pressure leak check. Apply a small amount of soapy water to all connections. Bubbles indicate a leak that needs to be addressed before proceeding.

Note: This desiccant filter tube is designed to fit TUXING PCP air compressor oil water filters/separators. Ensure compatibility with your specific system before installation.

OPERATION

Once installed, the desiccant filter operates passively as air passes through it. Follow these guidelines for effective use:

- **Air Flow Direction:** Ensure air flows through the filter in the intended direction (usually indicated by arrows on the main filter housing, if applicable, or by the design of the tube itself).
- **Monitor Desiccant:** The molecular sieve beads will change color as they absorb moisture (typically from beige/light brown to a darker shade or even green/blue depending on the specific type). Monitor this color change to determine when replacement is needed.
- **Regular Use:** Use the filter consistently with your air compressor to prevent moisture and oil buildup in your air tanks and equipment.
- **Pressure Limits:** Do not exceed the maximum operating pressure of 300 Bars (4500 PSI) for the filter. Refer to the specifications section for details.

MAINTENANCE

Regular maintenance ensures the filter's efficiency and extends the lifespan of your air compressor and connected equipment.

Desiccant Replacement:

1. **Depressurize System:** Before any maintenance, ensure the entire air system is fully depressurized. Disconnect the filter from the compressor and air tank.
2. **Disassemble Filter:** Carefully unscrew the end caps of the filter housing. The transparent desiccant tube can then be removed.
3. **Remove Used Desiccant:** Empty the spent molecular sieve beads from the transparent tube. Dispose of them according to local regulations.
4. **Clean Tube:** Clean the transparent tube and end caps with a dry, lint-free cloth. Do not use water or solvents.
5. **Refill with New Desiccant:** Fill the transparent tube with fresh molecular sieve desiccant beads. Ensure the tube is filled adequately but not overly packed, allowing for proper air flow.

6. **Reassemble:** Carefully reassemble the filter, ensuring all O-rings are properly seated and end caps are securely tightened.
7. **Reinstall and Test:** Reinstall the filter into your air system and perform a leak check as described in the "Setup" section before resuming full operation.

Frequency: The frequency of desiccant replacement depends on usage and ambient humidity. Replace the desiccant when the color indicator shows saturation or when you notice increased moisture in your compressed air.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Moisture still present in air after filtration.	Desiccant beads are saturated.	Replace desiccant beads.
Air leakage at connections.	Loose fittings or damaged O-rings.	Tighten connections. Inspect and replace O-rings if damaged.
Reduced air flow through filter.	Desiccant beads are overly packed or clogged.	Disassemble and check desiccant packing. Replace if necessary.
Filter tube appears cloudy or dirty.	Accumulation of oil or fine particles.	Disassemble and clean the transparent tube. Ensure proper pre-filtration if oil is a persistent issue.

SPECIFICATIONS

Feature	Detail
Model Name	TXF02
Function	Water and Oil Separation, Moisture Absorption
Material	Molecular Sieve (desiccant), Acrylic (tube), Metal (end caps/housing)
Maximum Operating Pressure	300 Bars (4500 PSI)
Dimensions (approx.)	L350mm x OD49mm x ID36mm (13.78 x 1.93 x 1.42 inches)
Item Weight	250 Grams (8.8 ounces)
Recommended Use	PCP Air Compressor Systems

SUPPORT

For technical assistance, replacement parts, or further inquiries, please contact TUXING customer support through their official channels or the retailer from whom the product was purchased.

Online Resources: Visit the [TUXING Store on Amazon](#) for product information and updates.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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