



Manuals.plus /

› TUXING /

› TUXING 6.8L Carbon Fiber Air Tank and Filling System Instruction Manual

TUXING 6.8L Carbon Fiber Tank

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INTRODUCTION

This manual provides essential information for the safe and effective use of your TUXING 6.8L Carbon Fiber Air Tank. This high-performance cylinder is designed for various applications including PCP air guns, paintball, and HPA air gun systems. It features a lightweight design, strong corrosion resistance, no magnetic properties, and stable performance, ensuring a long service life of up to 15 years.

The tank is constructed with an AL6061 aluminum alloy liner, fully wrapped with carbon fiber and glass fiber, and an epoxy-coated external surface for enhanced durability and resistance to creep, shock, and corrosion. It operates at a working pressure of 30MPa (300bar / 4500psi) and has undergone rigorous hydrostatic testing at 50Mpa, with a minimum burst pressure of 102Mpa.



Image: TUXING 6.8L Carbon Fiber Air Tank with its included regulator and hose assembly.

SAFETY PRECAUTIONS

- Always inspect the tank and all connections for damage before each use.
- Ensure all connections are secure and leak-free.
- Do not exceed the maximum working pressure of 4500 PSI (300 bar / 30 MPa).
- Never expose the tank to extreme heat or direct flame.
- Always wear appropriate personal protective equipment (PPE) when handling and filling the tank.
- Store the tank in a cool, dry place away from direct sunlight and corrosive materials.
- Refer to local regulations and safety standards for compressed gas cylinders.

SETUP

Before initial use, ensure all components are present and undamaged. The TUXING 6.8L Carbon Fiber Air Tank comes with a regulator and hose assembly.

Component Identification

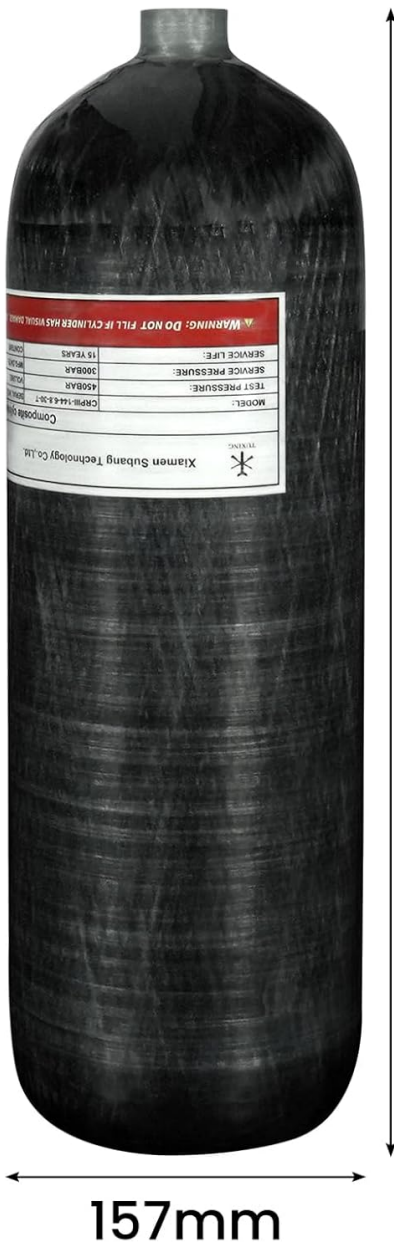


Image: Detailed view of the tank's components, including the double 6000psi pressure gauge, release valve, M18*1.5 thread, 8mm male quick plug with filter, 8mm female quick plug, and on/off valve.

Assembly

1. Carefully unpackage all components.
2. Attach the regulator assembly to the tank's neck thread (M18x1.5-6H). Ensure it is securely tightened by hand, then use a wrench for a final snug fit, being careful not to overtighten.
3. Connect the high-pressure hose to the regulator's quick-connect fitting.
4. Verify that all connections are tight and free from debris.

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Video: An overview of the TUXING 6.8L 4500psi Carbon Fiber Air Tank, showcasing its design and features.

OPERATING INSTRUCTIONS

Filling the Tank

The TUXING 6.8L Carbon Fiber Air Tank can be filled using a compatible high-pressure air compressor or by cascading from a larger storage tank.

1. Ensure the tank's valve is closed and the regulator is securely attached.
2. Connect the fill hose from your air compressor or cascade system to the quick-connect fitting on the tank's regulator.
3. Slowly open the valve on the air compressor or cascade system to begin filling. Monitor the pressure gauge on the tank.
4. Fill the tank to the desired pressure, not exceeding 4500 PSI (300 bar / 30 MPa).
5. Once the desired pressure is reached, close the valve on the air compressor or cascade system.
6. Slowly open the release valve on the tank's regulator to vent any residual pressure in the fill hose.
7. Disconnect the fill hose from the tank.

PCP air compressor

CONNECTING AIR COMPRESSOR

compressor-charging-cylinder system



Image: The 6.8L carbon fiber tank connected to a PCP air compressor, illustrating the filling setup.

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Video: Demonstration of filling an air tank, showing the connection and inflation process.

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Video: Instructions on how to fill small cylinders from a larger tank and how to use a compressor for filling, providing practical guidance for various filling scenarios.

Connecting to Devices

To connect the tank to your PCP air gun, paintball marker, or HPA system:

1. Ensure the tank's valve is closed.
2. Connect the appropriate adapter or hose from your device to the quick-connect fitting on the tank's regulator.
3. Slowly open the tank's valve to allow air to flow to your device.
4. After use, close the tank's valve and vent any remaining pressure from the hose before disconnecting.

MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your TUXING Carbon Fiber Air Tank.

- **Regular Inspection:** Periodically check the tank for any signs of damage, cracks, dents, or corrosion. Inspect the regulator, gauges, and hose for wear or leaks.
- **Cleaning:** Clean the exterior of the tank with a damp cloth. Avoid using harsh chemicals or abrasive materials that could damage the epoxy coating.
- **Storage:** Store the tank in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and corrosive substances. Ensure the tank is not completely empty but contains some pressure to prevent moisture ingress.
- **Hydrostatic Testing:** Carbon fiber tanks require periodic hydrostatic testing as per local regulations. The service life of this tank is 15 years, but retesting intervals may be shorter depending on usage and local laws. Consult a certified facility for retesting.
- **Valve Maintenance:** If the valve or regulator shows signs of malfunction or leakage, do not attempt to repair it yourself. Seek professional service from a qualified technician.

TROUBLESHOOTING

This section addresses common issues you might encounter with your TUXING Carbon Fiber Air Tank.

Low Pressure / No Air Flow

- **Check Tank Pressure:** Verify the tank's pressure gauge to ensure it contains sufficient air.
- **Open Valves:** Ensure all valves (tank, regulator, device) are fully open.
- **Check Connections:** Inspect all hose connections for tightness. A loose connection can cause leaks and prevent proper air flow.
- **Filter Clog:** The 8mm male quick plug includes a filter. A clogged filter can restrict airflow. Inspect and clean or replace if necessary.

Air Leaks

- **Tighten Connections:** Most leaks occur at connection points. Ensure all fittings are securely tightened.
- **Inspect O-rings:** Check O-rings in quick-connect fittings and valve connections for wear, damage, or improper seating. Replace if necessary.
- **Soapy Water Test:** Apply a small amount of soapy water to connections. Bubbles indicate a leak.
- **Regulator Malfunction:** If the leak persists from the regulator body, it may require professional inspection or replacement.

Difficulty Filling

- **Compressor Output:** Ensure your air compressor is capable of reaching the required pressure (4500 PSI / 300 bar).
- **Hose Kinks:** Check the fill hose for any kinks or obstructions.
- **Slow Fill Rate:** High-pressure tanks should be filled slowly to prevent overheating and ensure complete filling.

SPECIFICATIONS



THREAD SIZE

M18*1.5



VOLUME

6.8L



WORKING PRESSURE

30MPA/300BAR/4500PSI

Image: Visual representation of the tank's key specifications including dimensions, volume, and working pressure.

Feature	Detail
Brand	TUXING
Model Name	6.8L carbon fiber tank with regulator
Capacity	6.8 Liters (414 Cu.in / 74 Cu Ft)
Maximum Operating Pressure	4500 PSI / 300 bar / 30 MPa
Hydrostatic Test Pressure	50 MPa
Minimum Burst Pressure	102 MPa
Neck Thread	M18x1.5-6H
Material	AL6061 Aluminum Alloy Liner, Carbon Fiber & Glass Fiber Winding, Epoxy Coated Exterior
Item Weight	4.3 Kilograms
Item Dimensions (LxWxH)	21.14 x 6.18 x 6.18 inches (approx. 537mm x 157mm diameter)
Service Life	15 years
Included Components	6.8L carbon fiber tank with regulator

WARRANTY AND SUPPORT

The product warranty information is not explicitly provided in the available data. For specific warranty details and customer support, please contact TUXING Official Store directly through their Amazon store page or the contact information provided with your purchase.

For any questions regarding purchase or use, the manufacturer recommends contacting their professional team for assistance.



24/7 VIP Customer Support

- ① 7*24 hours online service.
- ② If you have any questions about purchase or use , please just feel free to contact us via Email. Our professional team will reply you as soon as possible.
- ③ You will get considerate customer service , a cost-effective and high-quality products , so please place order now !

Image: TUXING customer support details, highlighting 24/7 online service for inquiries.