TUXING TXEDM042

TUXING 4500Psi Scuba PCP Air Compressor (Model TXEDM042-US) Instruction Manual

Your guide to safe and efficient operation.

1. Introduction

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your TUXING 4500Psi Scuba PCP Air Compressor, Model TXEDM042-US. Please read this manual thoroughly before using the compressor to ensure proper function and to prevent injury or damage.
The TUXING TXEDM042-US is a high-pressure air compressor designed for filling PCP air rifle tanks, scuba tanks, and other high-pressure air containers. It features a built-in two-stage water-oil filtration system and an automatic shut-off function for user convenience and safety.

2. Safety Information

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

- Always operate the compressor in a well-ventilated area.
- Ensure the compressor is placed on a stable, level surface.
- **Never exceed the maximum rated pressure of 4500 PSI (300 Bar / 30 MPa) for the compressor or the tank being filled.**
- Always connect the cooling water system before starting the compressor. Operating without adequate cooling will cause severe damage.
- Do not touch hot surfaces during or immediately after operation.
- Wear appropriate personal protective equipment (PPE), including eye protection, when operating the compressor.
- Keep children and unauthorized personnel away from the operating compressor.
- Before any maintenance, ensure the compressor is unplugged and all pressure is released.
- Regularly inspect all hoses, connections, and filters for wear or damage. Replace as needed.
- The compressor temperature should not exceed 85°C. The running time should not exceed 45 minutes

continuously. Allow for cooling periods.

- Due to transportation restrictions, silicone oil is not included. Users must prepare silicone oil themselves.

3. Product Overview and Components

The TUXING TXEDM042-US compressor is designed for high-pressure air applications. Key components are illustrated below.

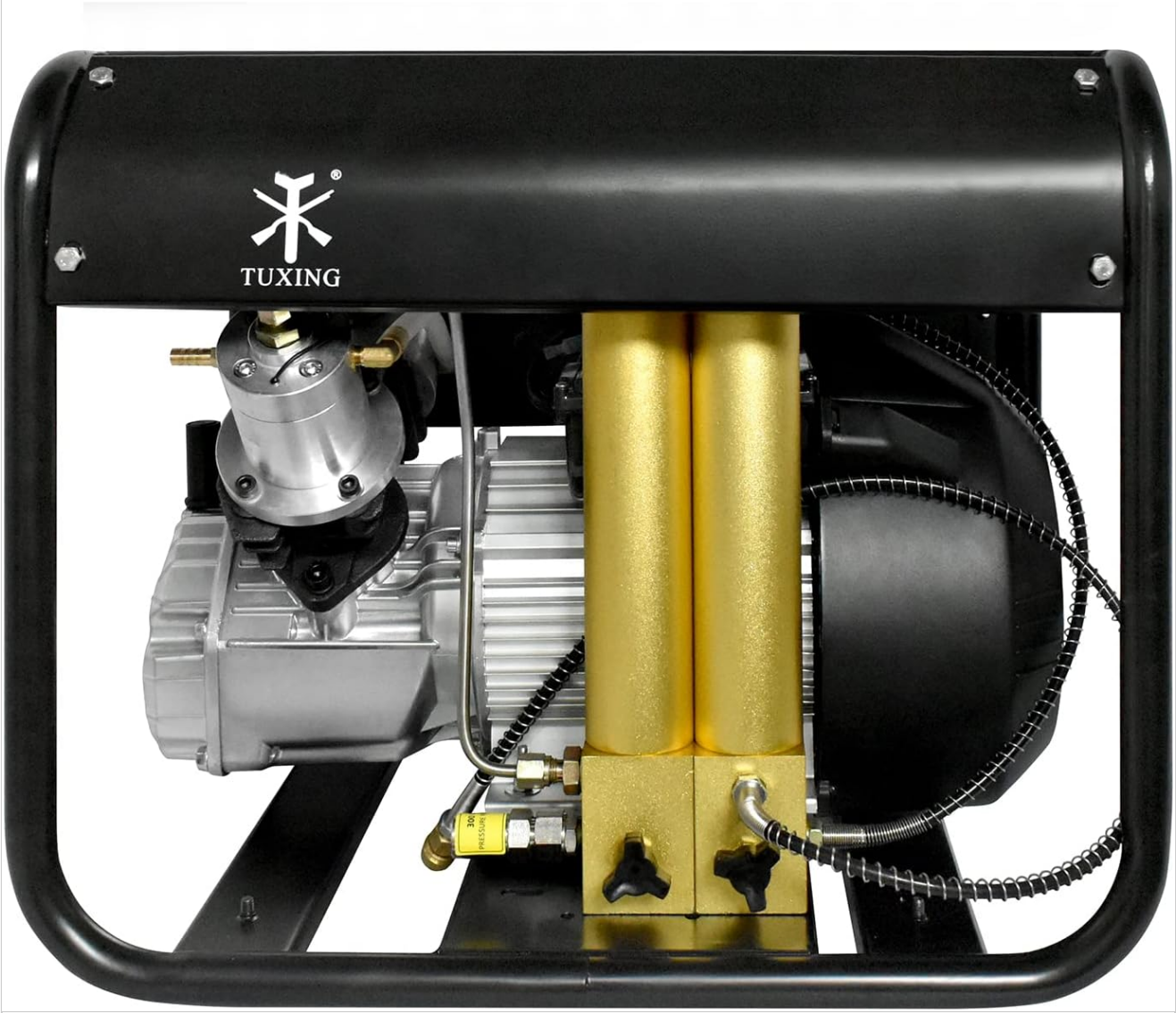

Figure 3.1: Front view of the TUXING TXEDM042-US Air Compressor, showing the main unit within its protective frame.

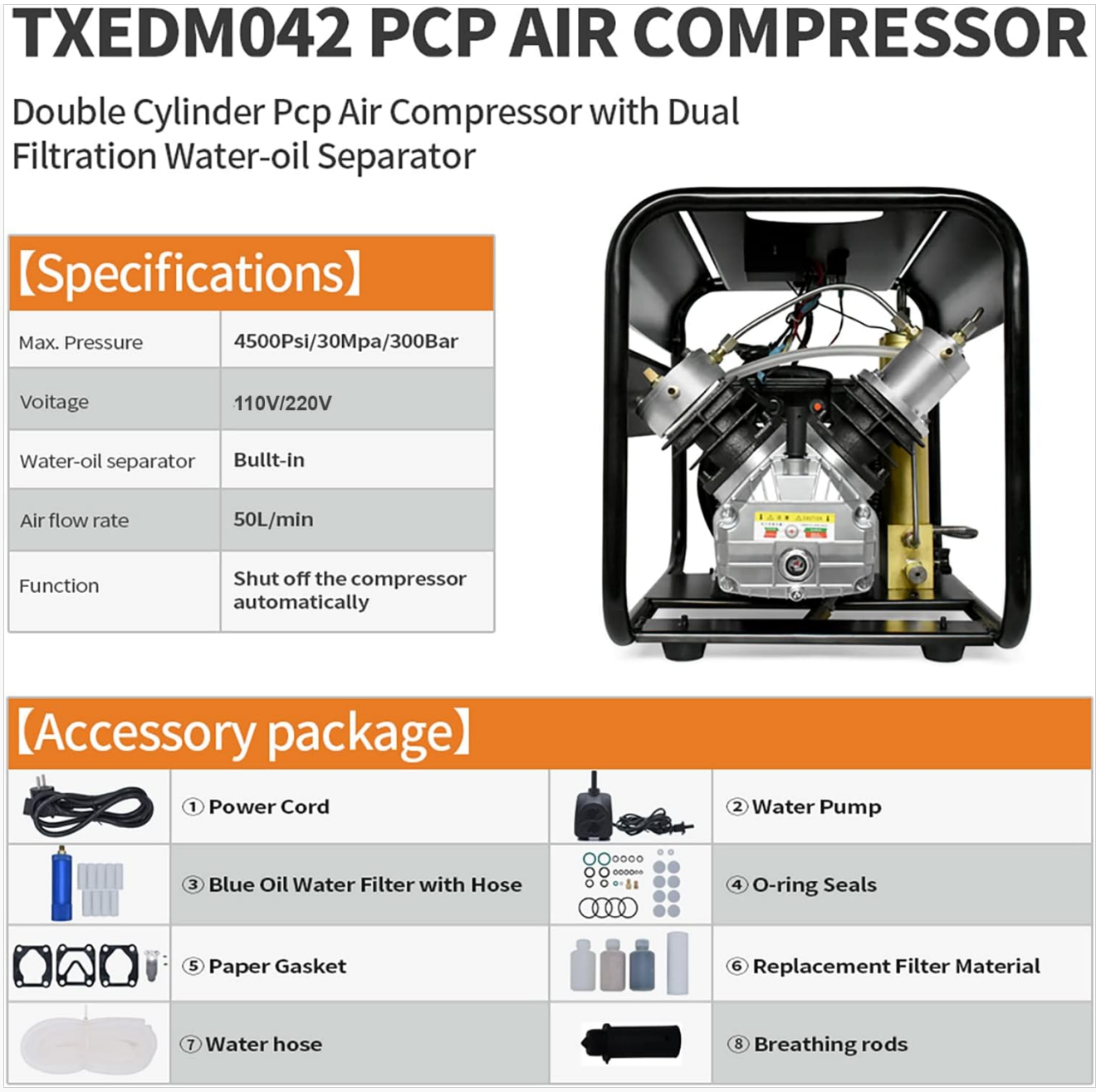

Figure 3.2: Labeled diagram of the TUXING TXEDM042-US Air Compressor, highlighting key components such as the low-pressure working cylinder, temperature gauge, pressure gauge, power switch, double filter tube, oil level line, high-pressure working cylinder, and advanced safety valve.

Included Components:

- Power Cord
- Water Pump
- Blue Oil Water Filter with Hose
- O-ring Seals
- Paper Gasket
- Replacement Filter Material
- Water Hose
- Breathing Rods

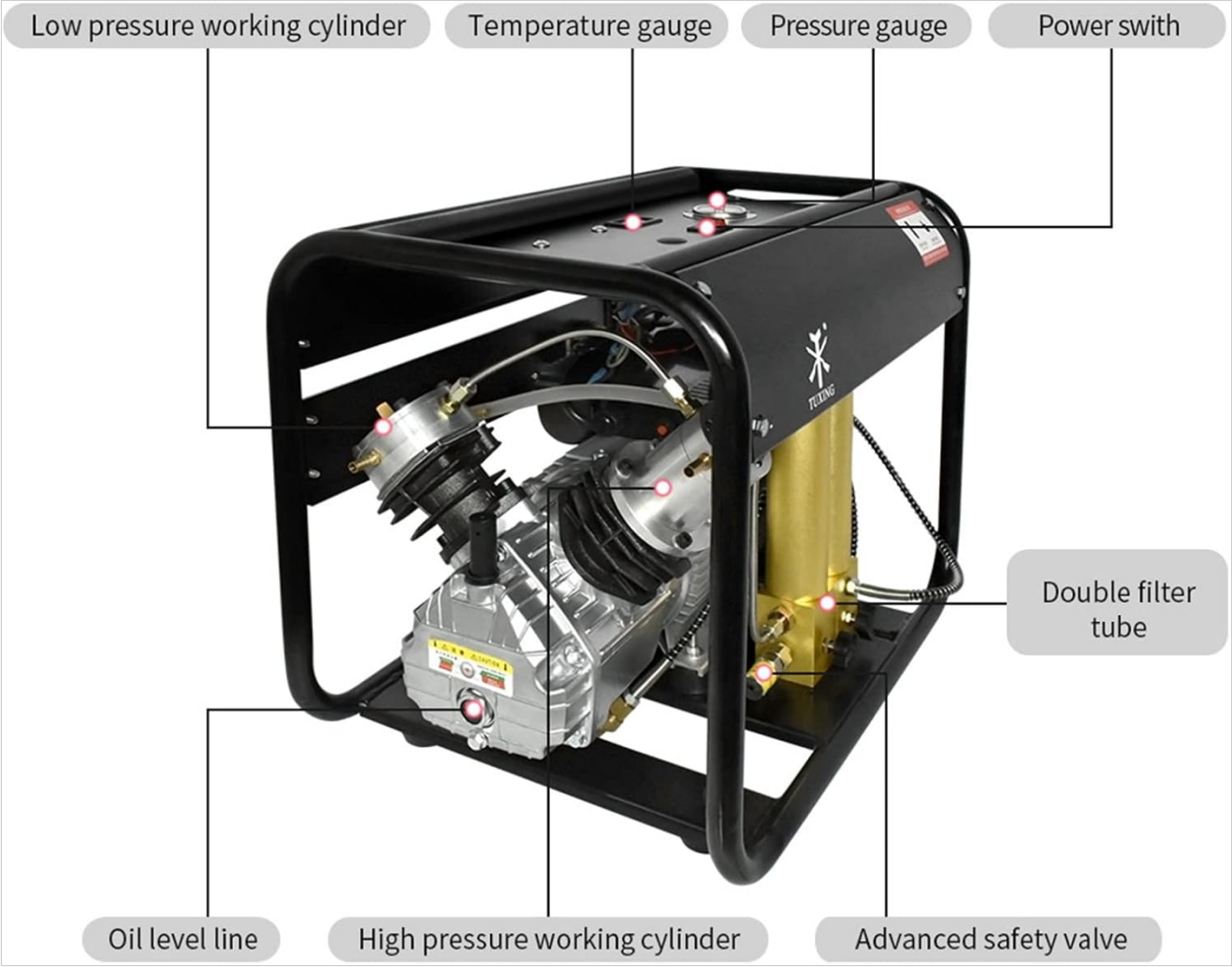

Figure 3.3: Image displaying the accessory package, including the power cord, water pump, blue oil water filter with hose, O-ring seals, paper gasket, replacement filter material, water hose, and breathing rods.

4. Setup Instructions

1. **Unpacking and Inspection:** Carefully remove the compressor from its packaging. Inspect for any visible damage. Ensure all included components are present.
2. **Oil Filling:**
    - Locate the oil cap and replace it with the breathing rod.
    - Add appropriate compressor oil (silicone oil, not included) to the compressor until the oil level reaches the red dot on the oil sight glass. Do not overfill.
3. **Cooling Water System Connection:**
    - Prepare an external bucket with at least 12 liters of clean cooling water.
    - Connect the provided water pump and water hoses to the compressor's cooling system inlets/outlets and submerge the pump in the water bucket.
    - Ensure the water pump is securely connected and functioning before starting the compressor.
4. **Filter Assembly:**
    - Connect the blue oil and water filter along with the filling hose to the compressor's output.
    - Ensure all connections are tight to prevent leakage and ensure good air quality.
5. **Power Connection:** Connect the 110V power cord to a suitable electrical outlet.

Figure 4.1: Side view of the compressor, illustrating the dual filtration system and connections for water and oil outlets.

5. Operating Instructions

1. **Pre-Operation Check:**
    - Verify oil level is correct.
    - Confirm cooling water system is connected and pump is submerged.
    - Ensure all hose connections are secure.
    - Check that the breathing rod is installed.
2. **Connecting the Tank:** Connect the 8mm quick connector of the filling hose to the tank you intend to fill. Ensure a secure connection.
3. **Setting Pressure:** Use the adjustable pressure gauge to set the desired shut-off pressure. The compressor will automatically stop when this pressure is reached. **Do not exceed the maximum pressure rating of your tank or 4500 PSI (300 Bar / 30 MPa).**

4. **Starting the Compressor:** Turn on the power switch. The compressor will begin to fill the tank.
5. **Monitoring Operation:**
    - Monitor the pressure gauge and the digital thermometer.
    - Ensure the compressor temperature does not exceed 85°C. If it does, stop operation and allow it to cool.
    - The maximum continuous running time is 45 minutes. Allow for cooling periods between extended uses.
6. **Automatic Shut-off:** The compressor will automatically shut off once the preset pressure is reached.
7. **Releasing Pressure and Disconnecting:**
    - After the compressor stops, slowly open the release valve to vent any residual pressure in the hose.
    - Once pressure is fully released, disconnect the filling hose from the tank.
    - Turn off the main power switch.

Figure 5.1: Close-up view of the compressor highlighting the safety valve and release valves, essential for pressure management.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your TUXING air compressor.

- **Oil Changes:** Regularly check the oil level and change the compressor oil according to the manufacturer's recommendations or after every 20-30 hours of operation.
- **Filter Replacement:** The built-in two-stage filtration system requires periodic filter element replacement to maintain air quality. Replace filter elements as needed, especially if you notice a decrease in air quality or flow.
- **Cooling System:** Keep the cooling water clean. Replace the water in the external bucket regularly. Inspect water hoses for kinks or leaks.
- **General Cleaning:** Keep the exterior of the compressor clean and free from dust and debris.
- **Inspection:** Periodically inspect all connections, hoses, and electrical cords for signs of wear, damage, or leaks. Address any issues promptly.

7. Troubleshooting

This section addresses common issues you might encounter with your TUXING air compressor.

Problem	Possible Cause	Solution
Compressor does not start.	No power, tripped circuit breaker, faulty switch.	Check power connection, reset circuit breaker, contact support if switch is faulty.
Compressor runs but does not build pressure.	Leak in system (hoses, connections, valves), worn piston rings, clogged filter.	Check all connections for leaks (use soapy water), inspect and replace gaskets/O-rings, replace filter elements.
Compressor overheats (temperature exceeds 85°C).	Insufficient cooling water, clogged cooling lines, extended continuous operation.	Ensure adequate cooling water supply, check water pump function, allow compressor to cool down, adhere to 45-minute run time limit.
Air quality is poor (oil/water in air).	Clogged or saturated filter elements, improper oil level.	Replace filter elements, check oil level and ensure it's not overfilled.
Automatic shut-off not working.	Faulty pressure sensor/gauge, incorrect pressure setting.	Verify pressure setting, contact support for sensor issues.

8. Specifications (Model TXEDM042-US)

Feature	Specification
Model	TXEDM042-US
Working Pressure	30 MPa / 300 Bar / 4500 PSI
Power Supply	110V, 60Hz
Power	2.2 kW
Flow Rate	40 L/min (Air Flow Capacity: 50 L/min)
Cooling System	Water Cooling (external bucket required)
Filtration System	Built-in Two-Stage Water-Oil Filter
Automatic Shut-off	Yes, adjustable pressure gauge
Noise Level	85 Decibels
Product Dimensions (L x W x H)	14.56" x 19.68" x 16.92"
Item Weight	36 Kilograms (approx. 79.2 pounds)
Material	Iron
Hose Length	0.5 Meters
UPC	717325437830

Figure 8.1: Diagram summarizing key specifications and included accessories for the TXEDM042-US model.

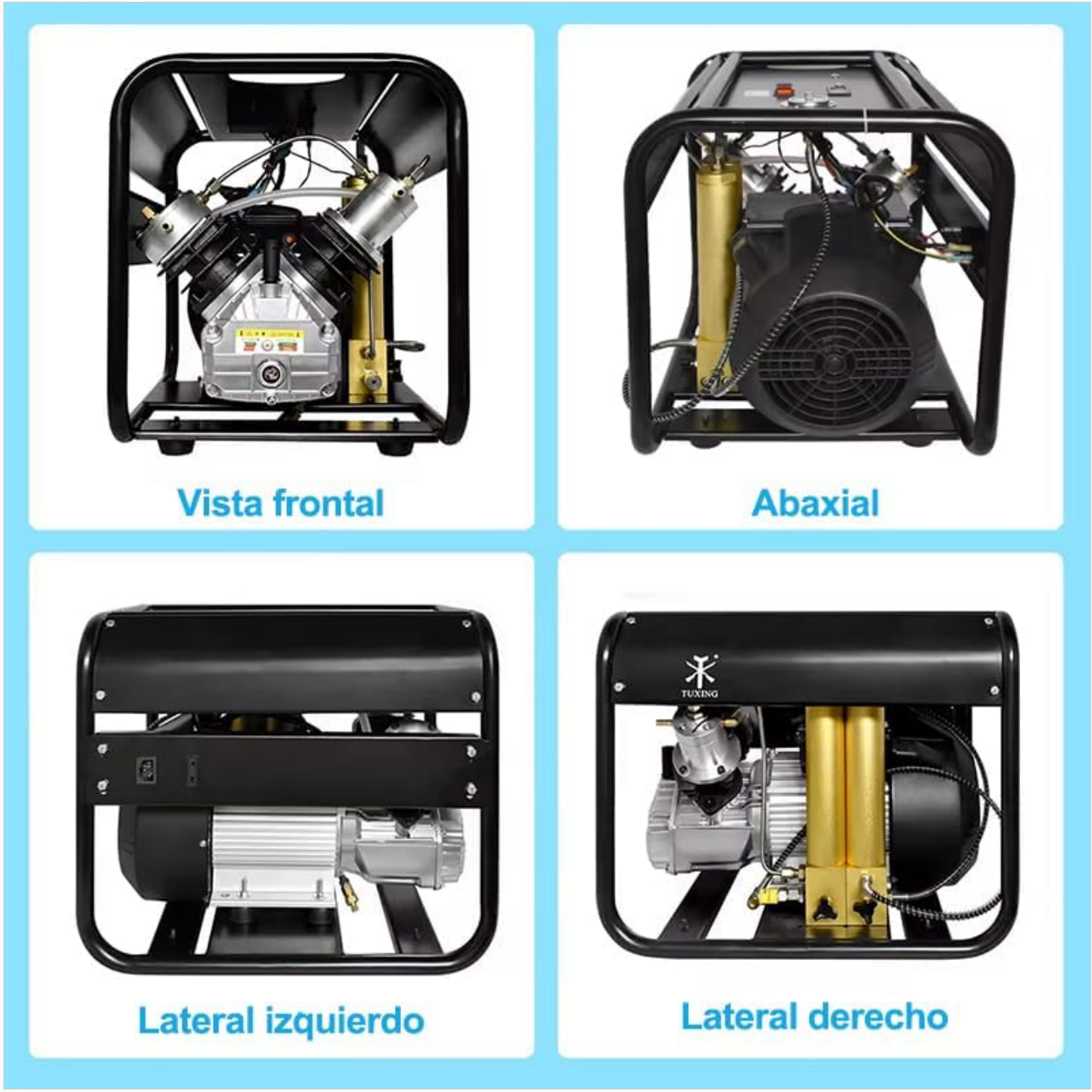

Figure 8.2: Image illustrating the dimensions and weight of the TUXING TXEDM042-US Air Compressor.

9. Warranty and Support

TUXING is committed to providing quality products and customer satisfaction. If you encounter any issues or have questions regarding your TXEDM042-US air compressor, please contact our service team.
For technical assistance, troubleshooting, or warranty inquiries, please refer to the contact information provided with your purchase or visit the official TUXING website.
Our service team is ready to answer any questions you may have.

10. Intended Use and Applications

The TUXING TXEDM042-US air compressor is suitable for various high-pressure air applications, including:

- PCP Air Rifle Tank Filling
- Scuba Diving Tank Filling
- Firefighting Air Tank Filling
- Paintball Air Tank Filling

- Leak Detection and Pressure Testing
- Automotive applications requiring high-pressure air

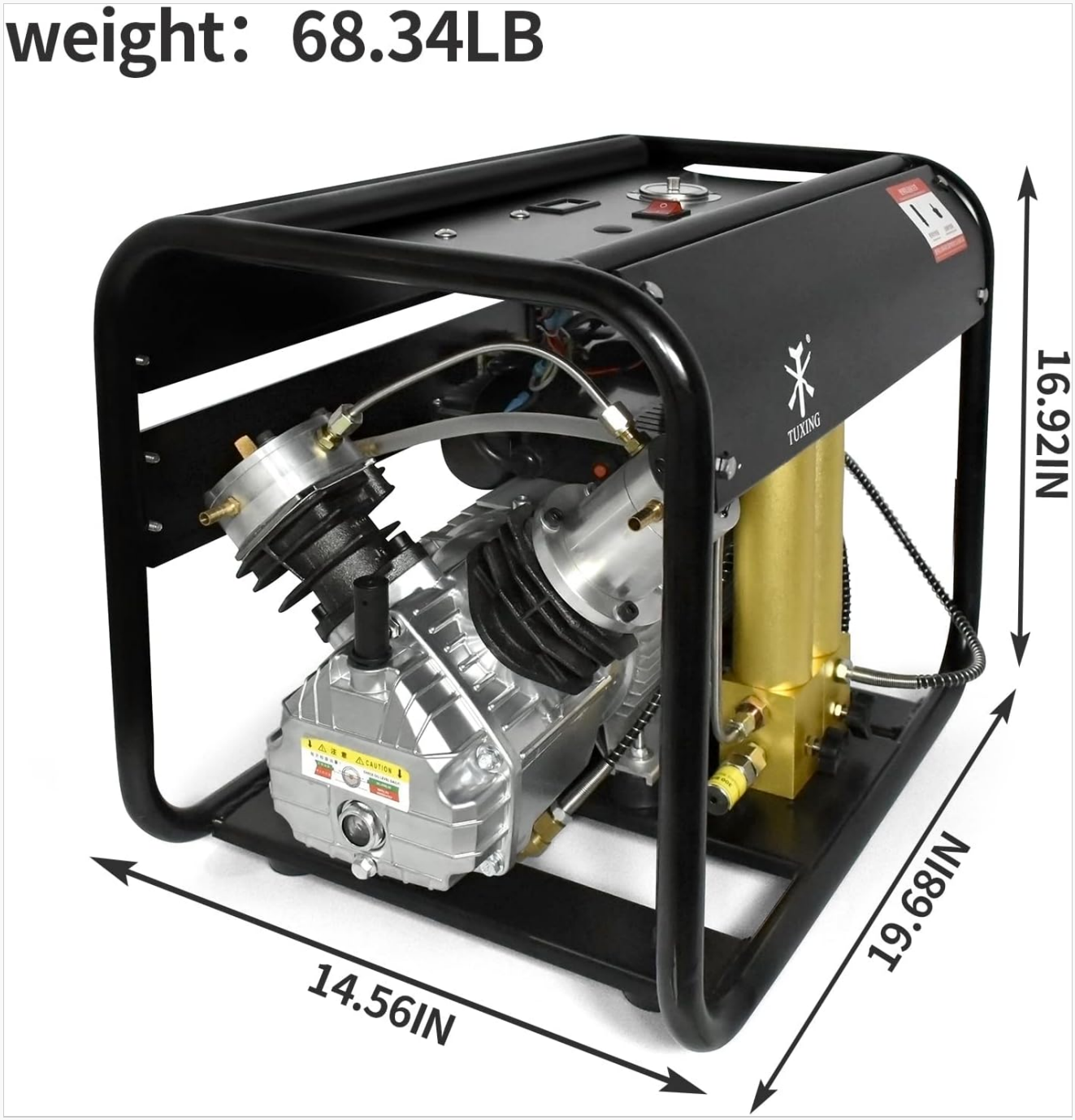

Figure 10.1: Visual representation of the compressor's wide application in activities such as hunting (GFP-RIFLE), paintball (COLOR), and scuba diving (DUIKES).