

4500Psi 300Bar Portable PCP Air Compressor

Generic PCP Air Compressor User Manual

Model: 4500Psi 300Bar Portable Air Compressor

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your Generic PCP Air Compressor. Please read this manual thoroughly before using the compressor to ensure proper function and to prevent injury or damage.

The PCP Air Compressor is designed for high-pressure air applications, capable of reaching 4500 PSI (300 Bar). It features a compact design, fan cooling, and multiple power options (12V DC, 110V AC, 220V AC) for versatile use.

2. SAFETY INFORMATION

Adhering to these safety guidelines is crucial for preventing accidents and ensuring the longevity of your compressor.

- Electrical Connection:** When connecting to a car battery, ensure the red wire is connected to the positive (+) terminal and the black wire to the negative (-) terminal. Incorrect polarity can damage the unit.
- Pre-Operation Check:** Before starting the machine, confirm that the cooling fan is operating normally and that there are no abnormal sounds (e.g., friction, uneven operation, air leaks).
- Fastener Inspection:** Verify that all fasteners on the unit are tight and secure before each use. Loose fasteners can lead to operational issues or safety hazards.
- Pressure Relief Valve:** Always ensure the pressure relief valve is tightened before starting the compressor. Monitor the pressure gauge needle's movement during operation.
- Ventilation:** Operate the compressor in a well-ventilated area to ensure proper heat dissipation.
- Children and Pets:** Keep children and pets away from the compressor during operation.

3. PRODUCT FEATURES

- Efficient Cooling:** Integrated fan cooling system for rapid heat dissipation, protecting the machine and extending its lifespan.
- Digital Display:** Liquid crystal display for real-time monitoring of machine parameters.
- High Power Output:** 350W motor for fast inflation speeds and high efficiency.
- Compact and Portable:** Small size and lightweight design (approximately 5.2 kg / 11.5 lbs) for easy transport and outdoor use.

- **Versatile Power Options:** Compatible with 12V DC, 110V AC, and 220V AC power sources.
- **Automatic Shut-Off:** Equipped with an automatic shut-off feature for safety and convenience.

4. SETUP

Follow these steps to set up your PCP Air Compressor for operation:

1. **Check Voltage Setting:** If using the AC power converter, ensure the voltage setting on the converter matches your local power supply (110V or 220V).
2. **Connect Power:** Connect the appropriate power source (12V DC from a car battery or 110V/220V AC via the transformer) to the compressor.
3. **Connect Air Hose:** Attach the high-pressure air hose to the compressor's output port and to the item you intend to inflate (e.g., PCP air rifle, paintball gun).
4. **Tighten Bleed Valve:** Ensure the bleed valve (pressure relief valve) is fully tightened before starting the compressor.



Image 1: Visual guide for the initial setup steps including checking voltage, connecting power and air hose, starting the compressor, and tightening the bleed valve.



Image 2: Illustrates connecting the compressor to a 12V car battery, showing the red clamp to positive and black clamp to negative terminals.

5. OPERATING INSTRUCTIONS

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

1. **Power On:** Turn on the main power switch on the compressor. The digital display should illuminate.
2. **Monitor Pressure:** Observe the pressure gauge and the digital display. The compressor will begin to fill the connected air tank or device.
3. **Automatic Shut-Off:** The compressor is equipped with an automatic shut-off feature. It will stop once the preset pressure (up to 4500 PSI / 300 Bar) is reached.
4. **Manual Shut-Off:** You can manually turn off the compressor at any time by flipping the power switch.
5. **Bleed Air:** After inflation, slowly open the bleed valve to release residual pressure from the hose before disconnecting.
6. **Disconnect:** Once pressure is released, disconnect the air hose from your device and the compressor.



PCP Air Rifle



Paintball Gun



Air Pistol



Outdoor 12v car battery
Portable and lightweight



Image 3: Demonstrates various applications for the compressor, including filling PCP air rifles, paintball guns, and air pistols, highlighting its portability for outdoor use with a 12V car battery.



Image 4: Shows the versatility of the compressor for inflating car tires, hovercrafts, air guns, bicycle tires, sports balls, and equipment for fire and mining applications.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your compressor.

- **Cooling Fan:** Periodically check the cooling fan for obstructions and ensure it runs freely. Keep the fan vents clear of dust and debris to maintain efficient heat dissipation.
- **General Cleaning:** Keep the exterior of the compressor clean and free of dirt. Use a dry cloth for cleaning. Do not use harsh chemicals or immerse the unit in water.
- **Storage:** Store the compressor in a dry, cool place away from direct sunlight and extreme temperatures.
- **Fasteners:** Regularly inspect all screws and connections to ensure they remain tight.

7. TROUBLESHOOTING

If you encounter issues with your compressor, refer to the following common troubleshooting tips:

- **Compressor Not Starting:**
 - Check power connections. Ensure the power cable is securely plugged in and the power source (12V, 110V, or 220V) is active.
 - If using 12V, verify correct battery polarity (red to +, black to -).
 - Ensure the main power switch on the compressor is in the 'ON' position.
- **Abnormal Sounds (Friction, Uneven Operation, Air Leakage):**
 - Immediately turn off the compressor.
 - Inspect for any loose fasteners or connections.
 - Check the air hose for damage or improper connection.
 - Ensure the cooling fan is not obstructed and is spinning freely.
 - If the issue persists, discontinue use and contact customer support.
- **Slow Inflation or Low Pressure:**
 - Ensure the bleed valve is fully tightened.
 - Check for any leaks in the air hose or connections.
 - Verify the power supply is stable and providing adequate voltage.

8. SPECIFICATIONS

Parameter	Value
Working Pressure	4500 PSI / 30 MPa / 300 Bar
Cooling System	Fan Cooling
Motor Rated Power	350W
Voltage	12V DC, 110V AC, 220V AC
Item Weight	5.2 kg / 11.5 lbs
Dimensions (L x W x H)	30 x 25 x 25 cm / 11.81 x 9.84 x 9.84 inches
Special Feature	Automatic Shut-Off

9. PACKAGE CONTENTS

The following items are included in your package:

- 1 x High Pressure Air Compressor
- 1 x Transformer (for AC power)
- 1 x Accessory Kit (includes various seals, O-rings, and connectors)
- 1 x User Manual



Image 5: Displays the main compressor unit along with its included accessories, such as the power supply, cables, and various fittings.

10. SUPPORT

If you have any questions, require assistance, or encounter issues not covered in this manual, please contact customer support. We are committed to providing a satisfactory solution as soon as possible.