

## VEVOR PCP Air Compressor

# VEVOR 250W Portable PCP Air Compressor User Manual

Model: PCP Air Compressor

## 1. IMPORTANT SAFETY INFORMATION

Read and understand all safety warnings and instructions before operating this air compressor. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- **Electrical Safety:** Ensure the power source matches the compressor's requirements (AC 230V or DC 12V). Do not operate in wet conditions. Always disconnect power before maintenance.
- **Pressure Safety:** This compressor operates at high pressures (up to 4500 PSI / 30 MPa). Never exceed the maximum pressure rating of the tank being filled. Always monitor pressure gauges.
- **Temperature Safety:** The compressor can reach high temperatures. Avoid touching hot surfaces during or immediately after operation. The maximum operating temperature is 80°C / 176°F.
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent overheating. The integrated fan cooling system requires clear airflow.
- **Children and Bystanders:** Keep children and unauthorized persons away from the operating compressor.
- **External Filter:** When inflating scuba diving tanks, always connect an external air filter to ensure air quality.
- **Manual Stop:** This model features a manual stop. Continuously monitor the pressure and manually switch off the compressor once the desired pressure is reached.

## 2. PRODUCT OVERVIEW

The VEVOR 250W Portable PCP Air Compressor is designed for rapid and stable inflation of PCP airguns,

paintball tanks, and small diving tanks. It features a compact design, dual power input, and an efficient cooling system.

## Key Features:

- **Fast Inflation:** Fills a 0.5L tank from 0 to 300 bar in approximately 20 minutes.
- **Intelligent Dual Display:** Real-time display of pressure and temperature.
- **Dual Power Options:** Integrated converter supports AC 230V (home) and DC 12V (car battery) power sources.
- **Integrated Fan Cooling:** Efficient heat dissipation without the need for an external water pump.
- **Oil-Free Operation:** No oil required for lubrication.
- **Portable Design:** Lightweight and easy to transport.



Figure 2.1: Main unit of the VEVOR 250W Portable PCP Air Compressor.

# 20mins Fast Inflation

Fill 0.5L tank to 300 bar in 20 mins



Figure 2.2: The compressor unit shown with included accessories, including power cables and quick connector hose.

## 3. SETUP INSTRUCTIONS

Follow these steps to set up your VEVOR PCP Air Compressor for first use.

1. **Unpack and Inspect:** Carefully remove all components from the packaging. Inspect the compressor and accessories for any signs of damage.

2. **Positioning:** Place the compressor on a stable, flat surface in a well-ventilated area. Ensure adequate space around the unit for airflow to the cooling fan.
3. **Connect High-Pressure Hose:** Attach the 8mm quick-connect high-pressure hose to the compressor's output port. Ensure a secure connection.
4. **Power Connection:**
  - **AC Power (Home Use):** Connect the AC power cord to the compressor's AC input and then to a standard 230V wall outlet.
  - **DC Power (Outdoor/Car Use):** Connect the battery clamp cable to the compressor's DC 12V input. Connect the red clamp to the positive (+) terminal of a 12V car battery and the black clamp to the negative (-) terminal.
5. **Optional External Filter:** If filling a scuba diving tank, connect an external air filter between the high-pressure hose and the tank.

## Flexible Use at Home & Outdoors



Figure 3.1: Demonstrates flexible power options: AC 120V (EU/AU AC Voltage: 230V) for home use and DC 12V car battery for outdoor use.

## 4. OPERATING INSTRUCTIONS

Follow these steps to safely operate your VEVOR PCP Air Compressor.

1. **Connect to Tank:** Connect the 8mm quick-connect hose to the air tank you intend to fill. Ensure the connection is secure and leak-free.
2. **Power On:** Flip the main power switch to the "ON" position. The intelligent dual display will activate, showing real-time pressure and temperature.
3. **Monitor Pressure and Temperature:** Continuously observe the pressure gauge and temperature display. The maximum recommended operating temperature is 80°C (176°F). If the temperature approaches this limit, turn off the compressor and allow it to cool down.
4. **Manual Shut-off:** Once the desired pressure is reached (*never exceed the tank's maximum rated pressure*), immediately turn off the main power switch. This compressor features a manual stop function, requiring user intervention to prevent over-pressurization.
5. **Bleed Air:** After turning off the compressor, slowly open the bleed valve to release residual pressure from the hose. This will allow you to safely disconnect the hose from the tank.

6. **Disconnect:** Once pressure is fully released, disconnect the high-pressure hose from the tank.



Figure 4.1: The compressor unit connected to an air tank, illustrating its fast inflation capability (0.5L tank to 300 bar in 20 minutes).

# Intelligent Dual Display

Pressure & temperature at a clear glance

**250w**  
Rated Power

**4500PSI**  
Max Pressure

**176°F**  
Max Temp



Figure 4.2: Close-up view of the intelligent dual display, showing real-time pressure and temperature readings during operation.

## 5. MAINTENANCE

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

- **Cooling Fan:** Periodically check the cooling fan for obstructions (dust, debris) and ensure it operates freely. Clean the fan vents as needed to maintain efficient heat dissipation.
- **Connections:** Regularly inspect all hose connections and power cables for wear, damage, or leaks.

Replace any damaged components immediately.

- **Filters:** The compressor includes internal filters. While it is oil-free, it is good practice to check and replace filter cotton and O-rings as part of the accessory kit if you notice reduced performance or air quality issues.
- **Storage:** When not in use, store the compressor in a clean, dry environment, away from direct sunlight and extreme temperatures.

## Built-in Fan Cooling System

Fast heat dissipation, no external water pump needed



Rapid cooling



Oil & Water Free



High Power



Figure 5.1: Illustration of the integrated fan cooling system, highlighting its role in heat dissipation without external water.

## 6. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Compressor does not start.	No power, loose connection, or power switch off.	Check power cable connection, ensure power source is active, and verify the power switch is in the "ON" position.
Compressor overheats quickly.	Poor ventilation, obstructed fan, or continuous operation for too long.	Ensure adequate airflow around the unit. Clean fan vents. Allow the compressor to cool down between long inflation cycles.
Slow inflation or low pressure output.	Air leak in connections, clogged filter, or worn seals.	Check all hose connections for leaks. Inspect and replace filter cotton and O-rings if necessary.
Pressure gauge reading seems inaccurate.	Gauge calibration issue or burst disc activation.	Compare with an external calibrated gauge if possible. Ensure burst discs are intact. If issues persist, contact support.

## 7. SPECIFICATIONS

Feature	Detail
Brand	VEVOR
Model Number	PCP Air Compressor
Rated Power	250 W
Maximum Pressure	4500 PSI / 30 MPa
Maximum Temperature	80°C / 176°F
Voltage	AC 120V (EU/AU AC: 230V) / DC 12V
Cooling Method	Efficient Cooling Fan (Integrated)
Stop Type	Manual Stop
Noise Level	60 Decibels
Product Dimensions (L x W x H)	25.9L x 17.5W x 19.1H cm (10.2 x 6.9 x 7.5 inches)
Net Weight	7.0 kg / 15.4 lbs
Included Components	Air Compressor, Power Cord, Filter, User Manual, Battery Clip, Accessory Kit (Filter Cotton, White Washer, Filter O-Rings, Burst Discs, Air Nozzle, Check Valve)

### Product Information

Rated Power: **250W**      Cooling Method: **Efficient Cooling Fan**  
 Maximum Pressure: **4500PSI / 30Mpa**      Net Weight: **15.4 lbs / 7.0 kg**  
 Maximum Temperature: **176 °F / 80°C**      Stop Type: **Manual Stop**  
 Product Dimensions: **10.2x6.9x7.5 in / 260 x 175 x 190 mm**

### Accessories

1 x Power Cord      1 x User Manual  
 1 x Filter      1 x Battery Clip  
 1 x Accessory Kit (5 x Filter Cotton, 5 x White Washer,  
 5 x Filter O-Ring, 5 x Burst Disc, 1 x Air Nozzle, 1 x Check Valve)



Figure 7.1: Detailed product information and dimensions of the compressor.

## 8. WARRANTY AND SUPPORT

**Manufacturer's Warranty:** The provided product information indicates that the manufacturer's warranty description is "Sans objet" (Not applicable). Please refer to your point of purchase or local consumer protection laws for details regarding returns or defects.

**Customer Support:** For technical assistance, troubleshooting beyond this manual, or inquiries about replacement parts, please contact VEVOR customer support through their official website or the retailer where the product was purchased.

You can visit the VEVOR store for more information: [VEVOR Official Store](#)