

NUOGE DQJ001

NUOGE PCP Air Compressor (Model DQJ001) Instruction Manual

Model: DQJ001 | Brand: NUOGE

1. INTRODUCTION

Thank you for choosing the NUOGE PCP Air Compressor. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your compressor. Please read this manual thoroughly before using the product and retain it for future reference.

This portable air compressor is designed for inflating PCP air rifles, air pistols, paintball guns, and HPA tanks up to 4500 PSI (30 MPa). It offers versatile power options, operating from either a 12V DC car battery or a 110V AC household outlet.

2. SAFETY INFORMATION

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

- Always operate the compressor in a well-ventilated area to prevent overheating.
- Ensure all connections are secure before operation to prevent air leaks and potential hazards.
- Do not exceed the maximum operating pressure of 4500 PSI (30 MPa).
- Monitor the temperature display during operation. If the temperature exceeds safe limits (e.g., 60°C), turn off the compressor and allow it to cool down.
- The recommended air cylinder volume for this compressor is no more than 1 liter.
- Keep children and unauthorized personnel away from the compressor during operation.
- Always wear appropriate eye protection when operating the compressor.
- Disconnect power before performing any maintenance or cleaning.

3. PRODUCT OVERVIEW

The NUOGE PCP Air Compressor is a compact and efficient unit designed for high-pressure air applications. Key features include:

- **Compact and Portable Design:** Weighing approximately 7 kg (11 lbs), it is easy to transport for outdoor use.
- **Dual Power Capability:** Operates on 12V DC (car battery) or 110V AC (household outlet) with the included converter.
- **High Pressure Output:** Capable of reaching 4500 PSI (30 MPa).
- **Brushless Motor:** Powered by a 250W brushless motor for efficient performance.
- **Integrated Cooling System:** Features a built-in fan for rapid cooling.
- **No Oil or Water Required:** Simplifies operation and maintenance.



Figure 3.1: Product Parameters and Components. This image shows the compressor with labels for its main parts including the compressor switch, fan switch, pressure gauges, temperature display, heat dissipation vent, air outlet, power plug, and bleed valve.

250W MOTOR & QUICK CONNECTOR



No need for
oil and water



Rapid cooling



250W motor



It takes about 18 minutes for the compressor to fill a 0.5L tanks from 0 to 300bar.

Figure 3.2: 250W Motor and Quick Connector. This image highlights the 250W motor, rapid cooling fan, and the 8mm fast foster quick connector for HPA tanks under 1L. It also notes that the compressor fills a 0.5L tank from 0 to 300 bar in about 18 minutes.

4. SETUP

Before operating the compressor, ensure it is placed on a stable, flat surface in a well-ventilated area.

4.1 Connecting the Air Hose

1. Locate the air outlet on the compressor.
2. Attach the provided air hose to the air outlet, ensuring a tight and secure connection.
3. Connect the other end of the air hose to your PCP air tank or device.

4.2 Power Connection

The compressor can be powered by a 12V DC car battery or a 110V AC household outlet.

4.2.1 Using 110V AC Home Power Supply

1. Connect the 110V-12V converter to the compressor's power input.
2. Plug the converter's power cord into a standard 110V AC household outlet.



Figure 4.1: Home Power Supply Connection. This image illustrates connecting the external power adapter to the compressor and then to a home socket for 110V AC operation.

4.2.2 Using 12V DC Car Battery

1. Connect the car battery connection cable to the 12V power input on the compressor.
2. Connect the red clip to the positive (+) terminal of your car battery and the black clip to the negative (-) terminal.
3. Ensure the car engine is running while using the compressor to prevent draining the car battery.



Figure 4.2: Car Battery Power Supply Connection. This image demonstrates connecting the compressor directly to a car battery using the provided cables for 12V DC operation.

4.3 Setup Video

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Video 4.1: PCP Air Compressor Setup and Operation. This video, provided by the seller, demonstrates the unboxing, connection, and initial operation of the PCP air compressor, showing how to connect the power and air hose.

5. OPERATING INSTRUCTIONS

Once the compressor is properly set up and connected to a power source and air tank, follow these steps for operation:

1. **Close the Bleed Valve:** Ensure the bleed valve (refer to Figure 3.1) is fully closed before starting the compressor.
2. **Turn on the Fan:** Activate the fan switch to ensure proper cooling during operation.

3. **Start the Compressor:** Flip the main power switch to the "ON" position. The compressor will begin to fill the connected air tank.
4. **Monitor Pressure and Temperature:** Continuously monitor the pressure gauge and the digital temperature display.
 - Do not exceed the target pressure for your tank or the compressor's maximum pressure of 4500 PSI (30 MPa).
 - If the temperature approaches 60°C (140°F), turn off the compressor and allow it to cool down before resuming.
5. **Stop Filling:** Once the desired pressure is reached, turn off the main power switch.
6. **Bleed Air:** Slowly open the bleed valve to release residual pressure from the hose. This will allow you to safely disconnect the air hose from your tank.
7. **Disconnect:** Once pressure is fully released, disconnect the air hose from your tank and the compressor.

Filling Speed: The compressor can fill a 0.5L tank from 0 to 300 bars (approximately 4350 PSI) in about 20 minutes, and from 200 bars to 300 bars in about 8 minutes.



Figure 5.1: Convenient Gauge. This image shows the visible pressure gauge and the LED temperature display, which are crucial for monitoring during operation.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your NUOGE PCP Air Compressor.

- **Cleaning:** Keep the exterior of the compressor clean and free from dust and debris. Ensure the cooling fan and vents are unobstructed.
- **Filter:** The compressor uses reusable active carbon for filtration. Check and replace the filter as needed to maintain air quality.
- **Connections:** Periodically inspect all hoses and connections for wear, damage, or leaks. Replace any damaged components immediately.
- **No Oil/Water:** This compressor is designed to operate without oil or water, simplifying maintenance.



Figure 6.1: Excellent Details. This image highlights the high-power cooling fan, 250W motor, and the reusable active carbon filter, all important for maintenance and performance.

7. TROUBLESHOOTING

If you encounter issues with your compressor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Compressor does not start.	No power, loose connection, power switch off.	Check power source and connections. Ensure power switch is on.
Compressor runs but no air is filling.	Bleed valve open, air hose not connected securely, leak in system.	Close bleed valve. Check all air hose connections for tightness. Inspect for leaks.
Compressor overheats quickly.	Poor ventilation, fan not running, prolonged operation.	Ensure adequate ventilation. Check if the cooling fan is operating. Allow compressor to cool down between cycles.
Slow filling speed.	Partially clogged filter, small power supply.	Check and clean/replace the active carbon filter. Ensure stable power supply.

If you experience issues not listed here or require further assistance, please contact our after-sales service team.

8. SPECIFICATIONS

Feature	Detail
Model Name	PCP Air Pump (DQJ001)
Brand	NUOGE
Maximum Operating Pressure	4500 PSI / 30 MPa
Power Source	12V DC (Car Battery) / 110V AC (Household)

Feature	Detail
Voltage (AC Adapter)	110V AC (as per product title)
Motor Power	250 Watts
Maximum Wattage	350 Watts
Noise Level	70 Decibels
Item Weight	5 Kilograms (approx. 11 pounds)
Product Dimensions (L x W x H)	8.3" x 6.7" x 4.6"
Cooling Method	Built-in Fan
Material	Metal
Included Components	Power converter, Car battery connection cable, Air outlet hose, Spare parts suit

9. WARRANTY AND SUPPORT

NUOGE products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation for specific warranty terms and duration.

For technical support, warranty claims, or any questions regarding your NUOGE PCP Air Compressor, please contact our customer service team:

Service Email: services-nd@outlook.com

Manufacturer: NUOGE