

CREWORKS PCP-30MPa

CREWORKS PCP Compressor 300 Bar/4350PSI 1800W Instruction Manual

Model: PCP-30MPa

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your CREWORKS PCP Compressor. This high-performance compressor is designed to pressurize air up to 4350 PSI (300 bar) at a flow rate of 50 L/min, suitable for various pneumatic equipment applications. It features robust construction, an 1800W copper motor, and integrated air and water cooling systems for extended use and motor protection.

2. SAFETY INFORMATION

WARNING: Always read and understand all safety instructions before operating this compressor. Failure to follow these instructions may result in serious injury or property damage.

- Ensure the compressor is placed on a stable, level surface during operation.
- Always connect the water cooling system and ensure proper water flow before starting the compressor to prevent overheating.
- Never exceed the maximum rated pressure of 4350 PSI (300 bar) for the compressor or the item being filled.
- Monitor the pressure gauge and temperature display constantly during operation. Stop the compressor immediately if the temperature exceeds 75°C (167°F) or if any unusual sounds or smells occur.
- Wear appropriate personal protective equipment, including eye protection, during operation.
- Keep children and unauthorized personnel away from the operating compressor.
- Ensure adequate ventilation in the operating area.
- Always bleed the pressure from the system before disconnecting any hoses or fittings.
- Use only ISO VG46 (AW46) standard oil for lubrication. The compressor is shipped without oil.

3. PRODUCT OVERVIEW

The CREWORKS PCP Compressor is a high-pressure air pump designed for efficiency and durability. It features a robust 1800W motor and a dual air and water cooling system to maintain optimal operating temperatures.

Key Features:

- **High Performance:** 1800W motor delivers 50 L/min flow rate up to 300 bar (4350 PSI).
- **Dual Cooling System:** Integrated air and water cooling for efficient heat dissipation and prolonged motor life.
- **Real-time Monitoring:** Features a clear temperature display and a precision pressure gauge.
- **Portable Design:** Equipped with a handle for easy transport.
- **Durable Construction:** Made from stainless steel, aluminum alloy, and brass components.

Component Identification:



1 Interruttore di Alimentazione	7 Attacco di Riempimento /Sfiatatoio dell'Olio	13 Tubo Flessibile ad Alta Pressione
2 Indicatore di Temperatura	8 Valvola Limitatrice di Pressione	14 Ingresso Aria e Filtro
3 Manometro	9 Indicatore del Livello dell'Olio	15 Presa del Cavo di Alimentazione
4 Uscita Acqua	10 Attacco di Scarico dell'Olio	16 Valvola di Scarico
5 Ingresso Acqua	11 Connettore Rapido	17 Valvola di Sicurezza
6 Valvola Antideflagrante	12 Separatore Acqua/Olio	

Figure 1: Labeled diagram of the CREWORKS PCP Compressor. Key components include the power switch, temperature indicator, manometer, water outlet/inlet, safety valve, oil filling/vent, pressure limiting valve, oil level indicator, oil drain, high-pressure flexible hose, air inlet/filter, power cable socket, bleed valve, and safety valve.



DISPLAY CHIARA DELLA TEMPERATURA

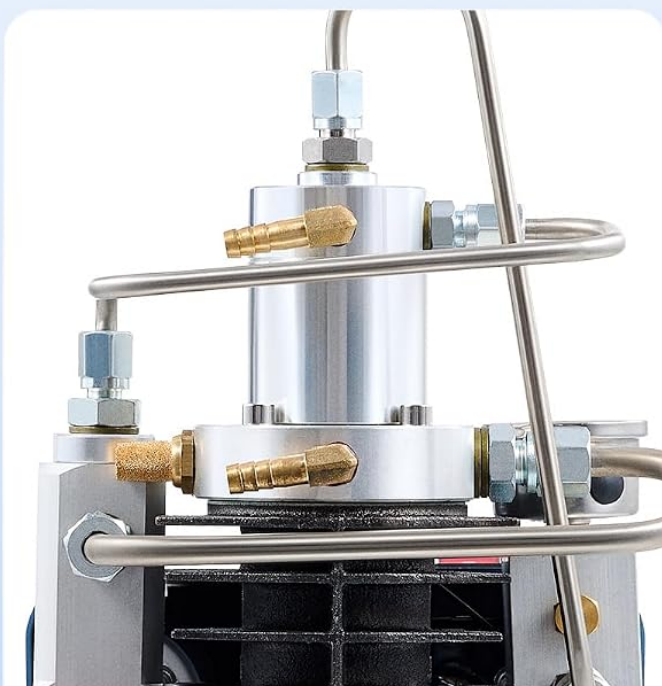
Il Monitoraggio della Temperatura
in Tempo Reale Consente Cambi
d'Acqua Tempestivi



MANIGLIA PORTATILE

Comodità e Facilità di Trasporto tra Diversi
Compiti o Lavori

Figure 2: Close-up view of the clear temperature display and portable handle for convenient transport.



TESTATA CILINDRICA SOLIDA

Il Cilindro Pneumatico in Acciaio Inossidabile Rivestito in Alluminio Garantisce un Servizio Duraturo



INDICATORE DEL LIVELLO DELL'OLIO

Monitora Facilmente il Livello e la Qualità dell'Olio della Tua Macchina Durante l'Uso

MANOMETRO

Ottieni la Pressione Perfetta Ogni Volta Grazie al Nostro Manometro di Precisione

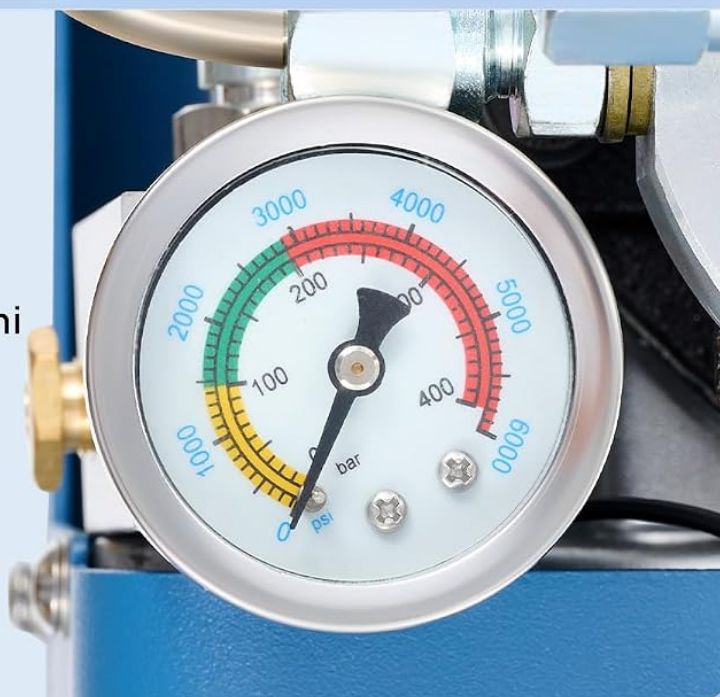


Figure 3: Detailed view of the precision pressure gauge and the oil level indicator for easy monitoring.

4. SETUP

Before first use, ensure all components are present and undamaged. The compressor is shipped without oil; you must add ISO VG46 (AW46) standard oil before operation.

1. **Add Oil:** Unscrew the oil cap and carefully pour ISO VG46 (AW46) compressor oil into the oil reservoir until it reaches the

appropriate level on the oil sight glass. Do not overfill.

2. Connect Water Cooling System:

- Connect the water pump to the water inlet and outlet ports of the compressor using the provided water tubes.
- Place the water pump into a container filled with clean water. Ensure the water pump is fully submerged.

3. Connect High-Pressure Hose:

Attach the high-pressure flexible hose to the compressor's air outlet and to the cylinder or device you intend to fill. Ensure all connections are tight to prevent leaks.

4. Power Connection:

- For home use, plug the power cable into a suitable 220V AC power socket.
- For outdoor use, connect the DC12V car battery clamps to a car battery (positive to positive, negative to negative).

5. Bleed Valve:

Ensure the bleed valve is closed before starting the compressor.

For a visual guide on setup and operation, please refer to the following videos:

Your browser does not support the video tag.

Video 1: Demonstrates the setup and initial operation of a similar PCP compressor, including connections and starting procedures.

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Video 2: Shows the process of connecting and operating a PCP air compressor, highlighting safety steps and monitoring.

5. OPERATING INSTRUCTIONS

1. **Initial Check:** Before starting, double-check all connections, ensure the water pump is operating, and the bleed valve is closed. Verify the oil level.
2. **Start Compressor:** Turn on the main power switch, then press the "START" button. The compressor will begin to operate.
3. **Monitor Pressure and Temperature:** Continuously monitor the pressure gauge and the temperature display. The maximum operating temperature is 75°C (167°F). If the temperature approaches this limit, turn off the compressor and allow it to cool down.
4. **Reach Desired Pressure:** Once the desired pressure is reached on the connected cylinder/device, immediately press the "OFF" button to stop the compressor.
5. **Bleed Pressure:** Slowly open the bleed valve to release the pressure from the high-pressure hose. Once the pressure is fully released, disconnect the hose from the cylinder/device.
6. **Power Off:** Turn off the main power switch and disconnect the power source.

Note: For models without a preset pressure function, manual monitoring and shutdown are required.

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Video 3: Illustrates the operational steps of a PCP compressor, including starting, monitoring, and shutting down.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your compressor.

- **Oil Level Check:** Check the oil level before each use. Refill immediately if the level is low.
- **Oil Change:** Change the compressor oil after every 20-30 hours of operation or at least once a year, whichever comes first. Drain old oil completely before refilling with fresh ISO VG46 (AW46) standard oil.
- **Water Cooling System:** Regularly check the water level in the cooling reservoir and replace the water if it becomes dirty. Ensure the water pump is clean and free of debris.
- **Air Filter:** Inspect and clean or replace the air filter regularly to ensure clean air intake and prevent damage to internal components.
- **Connections:** Periodically inspect all hoses and connections for wear, damage, or leaks. Replace any damaged parts immediately.
- **Storage:** Store the compressor in a clean, dry environment when not in use.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Compressor does not start.	No power, loose connection, power switch off.	Check power supply, ensure connections are secure, turn on power switch.
Compressor overheats quickly.	Insufficient water cooling, clogged air filter, low oil level.	Check water pump operation and water level, clean/replace air filter, check/refill oil.
Pressure not building up.	Bleed valve open, loose connections, internal leak.	Ensure bleed valve is closed, tighten all connections, inspect for leaks.
Unusual noise during operation.	Low oil, loose parts, internal component issue.	Check oil level, inspect for loose parts, contact customer support if noise persists.

8. SPECIFICATIONS

Feature	Detail
Model Number	PCP-30MPa
Power	1800W
Voltage	220 Volt
Max Pressure	4350 PSI (300 Bar)
Flow Rate	50 L/min
Cooling System	Air and Water Cooling
Material	Stainless steel, aluminum alloy, and brass
Dimensions	18 x 36 x 37 cm
Weight	17 Kilograms
Noise Level	78 Decibel



Figure 4: Physical dimensions of the CREWORKS PCP Compressor.

9. PACKAGE CONTENTS

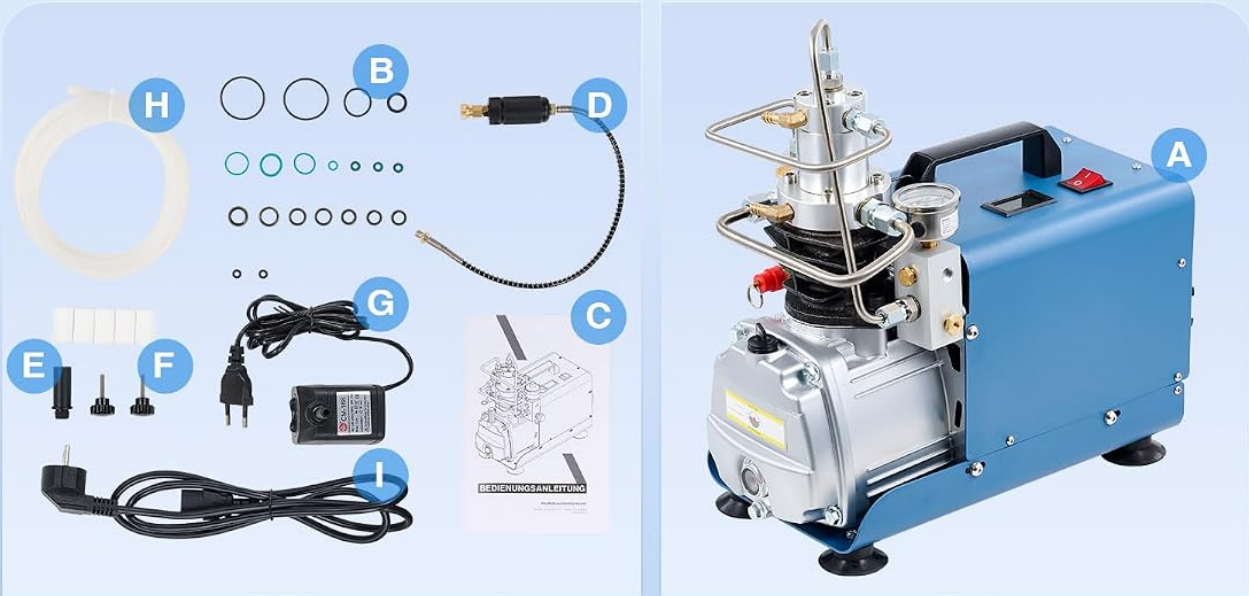
The following items are included in your package:

- 1 × PCP Compressor
- 1 × Air Tube
- 1 × Water/Oil Separator
- 1 × Power Cable
- 1 × Water Pump
- 2 × Water Tubes
- 1 × Accessory Kit

Note: Due to shipping restrictions, oil is not included. Please use ISO VG46 (AW46) standard oil.

ELENCO DEI PACCHETTI

A Causa delle Restrizioni sulla Spedizione,
Questa Macchina Non Include Olio.
Con Questa Macchina Utilizzare Solo
Olio Standard ISO VG46 (AW46).



Nr.	Name	Menge
A	Compressore d'Aria	1
B	Kit di Accessori	1
C	Istruzioni	1
D	Tubo dell'Aria da 8 mm	1
E	Sfiato	1
F	Manopole delle Valvole	2
G	Pompa dell'Acqua	1
H	Tubi dell'Acqua	2
I	Cavo di Alimentazione	1

Figure 5: Visual representation of the items included in the package.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact CREWORKS customer service. Keep your purchase receipt as proof of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question