

Carbest 145773197

Carbest 12V Water Pump Instruction Manual

Model: 145773197

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1. INTRODUCTION

Thank you for choosing the Carbest 12V Water Pump. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your pump. Please read this manual thoroughly before use and retain it for future reference.

This 12V pressure water pump features a robust construction designed for a long service life. It operates with a cut-off pressure of 2.8 bar and delivers a flow rate of 10 liters per minute. The pump incorporates a 3-compartment membrane system for reliable performance.

2. SAFETY INSTRUCTIONS

- Always disconnect power before installing, servicing, or performing any maintenance on the pump.
- Ensure the power supply matches the pump's rated voltage (12V DC).
- Do not operate the pump with flammable liquids. This pump is designed for water only.
- Protect the pump from freezing temperatures.
- Ensure proper ventilation around the pump to prevent overheating.
- Use appropriate wiring and fuses for the rated current (7.5A) to prevent electrical hazards.
- Install the pump in a dry location, protected from direct water spray.

3. SETUP AND INSTALLATION

3.1 Unpacking

Carefully remove the pump and all components from the packaging. Inspect for any damage that may have occurred during transit. Do not use if damaged.

3.2 Mounting

Mount the pump in a secure, dry location. The pump can be mounted horizontally or vertically. Ensure the mounting feet are firmly attached to a stable surface to minimize vibration and noise.



Image: Side view of the Carbest 12V water pump, highlighting the four integrated mounting feet designed for secure installation.

3.3 Plumbing Connections

Connect the inlet and outlet pipes to the pump. For optimal operation, use pipes with an inner diameter of 12 mm or more. Ensure all connections are tight to prevent leaks.

- **Inlet:** Connect the water supply line to the inlet port. The pump includes a pre-filter that should be installed on the inlet side to protect the pump from debris.
- **Outlet:** Connect the discharge line to the outlet port.



Image: The Carbest 12V water pump, showing the integrated pre-filter on the inlet side and the red and black wires for electrical connection.



Image: A detailed view of the transparent pre-filter assembly, showing the mesh screen inside, which prevents debris from entering the pump.



Image: Bottom perspective of the Carbest water pump, illustrating the threaded inlet and outlet ports for plumbing connections.

3.4 Electrical Connections

Connect the pump to a 12V DC power source. The red wire is for the positive (+) terminal, and the black wire is for the negative (-) terminal. Ensure correct polarity. It is recommended to install an inline fuse appropriate for the pump's rated current (7.5A) to protect the electrical circuit.

4. OPERATION

4.1 Priming the Pump

Before initial operation, ensure the pump is primed. Open a faucet or valve on the discharge side to allow air to escape. Turn on the power to the pump. The pump will begin to draw water and expel air. Once a steady flow of water is achieved, the pump is primed. Close the faucet/valve, and the pump will shut off automatically when the cut-off pressure is reached.

4.2 Automatic Operation

The Carbest 12V water pump is designed for automatic operation. It will turn on when a demand for water is detected (e.g., opening a faucet) and turn off when the demand ceases and the system pressure reaches the cut-off point (2.8 bar).

4.3 Flow Rate

The pump provides a flow rate of 10 liters per minute. Actual flow may vary depending on system pressure, pipe diameter, and elevation.

5. MAINTENANCE

5.1 Pre-filter Cleaning

Regularly inspect and clean the pre-filter to ensure optimal pump performance and prevent damage from debris. To clean:

1. Disconnect power to the pump.
2. Unscrew the transparent housing of the pre-filter.
3. Remove the mesh screen and rinse it thoroughly under clean water.
4. Reassemble the pre-filter, ensuring the O-ring is properly seated to prevent leaks.
5. Reconnect power and check for leaks.



Image: A close-up view of the transparent pre-filter, indicating the component that requires regular cleaning to maintain pump efficiency.

5.2 Winterization

If the pump will be exposed to freezing temperatures, it must be drained completely to prevent damage. Disconnect the inlet and outlet lines and allow all water to drain from the pump. Store in a dry, frost-free environment.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not turn on.	No power; Blown fuse; Loose wiring; Motor fault.	Check power supply; Replace fuse; Secure connections; Contact support.
Pump runs but no water flows.	Air in system (not primed); Clogged inlet/filter; Low water supply; Leaks in suction line.	Prime the pump; Clean pre-filter; Check water source; Inspect and seal suction lines.
Low flow or pressure.	Clogged filter; Partially closed valve; Small pipe diameter; Air in system.	Clean pre-filter; Open all valves; Ensure 12mm+ pipe diameter; Re-prime pump.
Pump cycles on and off frequently.	Small leak in system; Pressure switch malfunction; Accumulator tank issue (if applicable).	Check for leaks in plumbing; Contact support for pressure switch or accumulator issues.
Excessive noise or vibration.	Loose mounting; Debris in pump; Air in system.	Secure mounting feet; Clean pump (if accessible); Prime the pump.

7. TECHNICAL SPECIFICATIONS

Feature	Detail
Model Number	145773197
Brand	Carbest
Rated Voltage	12V DC
Rated Current	7.5A
Flow Rate	10 Liters Per Minute
Cut-off Pressure	2.8 bar
Pump System	3-Compartment Membrane
Recommended Pipe Inner Diameter	12 mm or more
Dimensions (L x W x H)	20.3 x 13 x 12.3 cm
Weight	2.04 Kilograms
Material	Plastic, Stainless Steel

8. WARRANTY INFORMATION

Carbest products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or contact your retailer. The warranty typically covers manufacturing defects under normal use conditions.

Please note: Damage caused by improper installation, misuse, neglect, freezing, or unauthorized modifications is not covered under warranty.

9. CUSTOMER SUPPORT

For technical assistance, spare parts, or warranty claims, please contact your authorized Carbest dealer or the point of purchase. When contacting support, please have your product model number (145773197) and purchase date available. You may also visit the official Carbest website for additional resources and contact information.

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Related Documents - 145773197

	Carbest 620560 4-Chamber Diaphragm Pump User Manual Comprehensive user manual for the Carbest 620560 4-Chamber Diaphragm Pump. Covers features, applications, detailed installation guide, bypass adjustment, troubleshooting, and warranty information for mobile water systems.
	Carbest CozyWater 12V Warmwasserboiler Bedienungsanleitung Umfassende Bedienungsanleitung für den Carbest CozyWater 12V Warmwasserboiler (Modelle 670600, 670601, 670604). Enthält Informationen zu Installation, Betrieb, Sicherheitshinweisen, Wartung und Fehlerbehebung für Wohnmobile und Camper.
	CARBEST AR180L Kompressor-Kühlschrank Benutzerhandbuch Umfassende Anleitung für den CARBEST AR180L Kompressor-Einbaukühlschrank, einschließlich Installation, Bedienung, Wartung und Fehlerbehebung. Erfahren Sie mehr über die technischen Spezifikationen und Sicherheitsvorkehrungen.
	CARBEST Travel Hair Dryer 12V/180W User Manual and Safety Guide Comprehensive user instructions, safety guidelines, and warranty information for the CARBEST Travel Hair Dryer 12V/180W (Model 804195). Learn about product features, safe operation, maintenance, and disposal.



LED Single Color Dimmer

831003

DE – BENUTZERHANDBUCH
EN – USER'S INSTRUCTION

[CARBEST LED Single Color Dimmer 831003 User Manual](#)

Comprehensive user manual for the CARBEST LED Single Color Dimmer (Model 831003). Details include technical specifications, wireless control instructions, connection diagrams, and warranty information from Reimo.



Carbest Sinus Power Inverter User Manual

This manual provides instructions for the installation, operation, and maintenance of the Carbest Sinus Power Inverter. It covers safety precautions, technical specifications, troubleshooting, and warranty information.