MOONCOOL AP10

MOONCOOL Portable Air Compressor User Manual

Model: AP10

1. Introduction

The MOONCOOL Portable Air Compressor is a versatile and efficient electric air pump designed for a wide range of inflation needs. Featuring a powerful dual-motor system and a large capacity battery, it offers quick and reliable inflation for car tires, bicycle tires, sports balls, inflatable paddleboards, and other high-volume inflatables like air mattresses and tents. Its compact design, integrated LED light, and power bank function make it an essential tool for everyday use and emergencies.

2. Product Features

- **Wide Compatibility:** Supports two inflation modes (high pressure for tires, high volume for inflatables) and includes 11 valve fittings for various applications (American and French valves, car, motorcycle, bicycle tires, buoys, inflatable boats, paddleboards).
- **Efficient Dual-Motor Inflation:** Equipped with an innovative 19mm dual-alloy cylinder and two 60W motors, delivering 16,000 RPM and a maximum pressure of 150 PSI (10.3 BAR). Inflates small car tires (195/55/R15 from 26-36 PSI) in 1 minute, or fully inflates from 0-36 PSI in 8 minutes.
- **Smart and Safe Operation:** Features 4 preset modes for different needs (bicycle, motorcycle, car, SUV, ball) and four unit options (PSI, KPA, BAR, KG/CM²). Includes a real-time digital pressure gauge with an LCD screen for accurate readings. Automatically shuts off when the desired pressure is reached.
- **Large Battery Capacity & Rechargeable:** Built-in 6000 mAh (3 x 2000 mAh) battery provides up to 30 minutes of continuous operation. Can be powered via the included 3m 12V DC car power cable or recharged via the USB cable.
- **Multi-functional Design:** Integrates 3 LED lighting modes (illumination, flash, SOS) for night use and emergencies. Functions as a power bank with a USB charging interface and PD charging protocol to charge mobile devices. Comes with a convenient storage bag.

3. Package Contents



This image displays all components included in the MOONCOOL Portable Air Compressor package, neatly arranged. It shows the main air pump unit, various hoses, power cables, and different types of nozzles for multi-purpose use.

- 1 x MOONCOOL Electric Air Pump (Model AP10)
- 1 x Inflatable Tube (Standard)
- 1 x High-Capacity Tube (for large volume inflatables)
- 4 x Air Jets (for bicycle, SUP, buoy, ball)
- 5 x High-Capacity Nozzles
- 1 x USB Charging Cable
- 1 x 12V DC Car Power Cable
- 1 x User Manual (this document)
- 1 x Storage Bag

4. Setup and Charging

4.1 Initial Charging

Before first use, fully charge the MOONCOOL Portable Air Compressor. Connect the included USB charging cable to the pump and a suitable USB power adapter (not included). The display will indicate charging status. A full charge ensures optimal performance and battery life.

4.2 Power Options



This image illustrates the two primary methods for powering the MOONCOOL air compressor: using its internal 6000 mAh battery for cordless operation, or connecting it to a 12V DC car cigarette lighter socket for continuous power, especially useful when the battery is low or for extended use.

- **Internal Battery:** The pump is equipped with a 6000 mAh rechargeable battery for portable use.
- **12V DC Car Power:** For continuous operation or when the internal battery is depleted, connect the pump to your car's 12V cigarette lighter socket using the provided car power cable.

5. Operating Instructions

5.1 General Operation



This image provides a detailed view of the MOONCOOL air pump's LED full touch control screen, highlighting the digital display for pressure readings, inflation modes, and control buttons for setting target pressure and starting/stopping inflation. It also shows the automatic stop feature when the preset pressure is reached.

1. **Power On:** Press and hold the power button to turn on the device. The LCD screen will illuminate.
2. **Select Unit:** Use the unit button (often labeled with 'U' or a similar icon) to cycle through pressure units: PSI, KPA, BAR, KG/CM².
3. **Choose Mode:** Press the mode selection button (often an icon representing different items like car, bike, ball) to select the appropriate preset inflation mode. Each mode has a recommended pressure range.
4. **Set Target Pressure:** Use the '+' and '-' buttons to adjust the desired target pressure. The digital display will show the real-time pressure as you inflate.
5. **Connect Nozzle:** Attach the appropriate nozzle to the inflation hose, then securely connect the hose to the item you wish to inflate.
6. **Start Inflation:** Press the inflation button (often a power symbol or play icon) to begin inflation. The pump will automatically stop when the preset pressure is reached.
7. **Power Off:** Press and hold the power button to turn off the device, or it will automatically power off after a period of inactivity.

5.2 Inflating a Paddleboard



This image illustrates the four-step process for inflating a paddleboard with the MOONCOOL air pump. It shows connecting the large volume hose, setting the board inflation mode, switching to the inflatable hose when 95% inflated, and finally setting the non-SUP mode to 12-15 PSI for final inflation.

1. **Step 1:** Use the large volume hose to connect the paddleboard to the air pump.
2. **Step 2:** Set the board inflation mode on the pump and press the start button to begin inflation.
3. **Step 3:** When the paddleboard is approximately 95% inflated, remove the large volume hose and connect the standard inflatable hose.
4. **Step 4:** Select a non-SUP mode and set the pressure value to 12-15 PSI. Press the start button to complete the inflation.

Note: Not recommended for multi-person paddleboards.

5.3 Nozzle Compatibility



This image illustrates the wide array of nozzles included with the MOONCOOL air pump, designed for various applications. It shows specific nozzles for car tires, bicycle tires, paddleboards, swimming rings, inflatable mattresses, inflatable sofas, inflatable toys, and sports balls, demonstrating the product's versatility.

The MOONCOOL Portable Air Compressor comes with a comprehensive set of nozzles to accommodate various inflation needs:

- **Car Tires:** Standard valve connector.
- **Bicycle Tires:** Presta and Schrader valve adapters.
- **Paddleboards:** Specific adapter for SUP boards.
- **Swimming Rings & Inflatable Toys:** Various cone-shaped nozzles.
- **Inflatable Mattresses & Sofas:** Larger nozzles for high-volume inflation.

- **Balls:** Needle valve for sports balls.

6. Additional Functions

6.1 Power Bank Functionality



This image demonstrates the MOONCOOL air pump's additional functionalities: acting as a power bank to charge mobile devices via its USB port, and serving as an LED flashlight for various uses such as vehicle inspection, night lighting, and an SOS red light flashing mode for emergencies.

The MOONCOOL Portable Air Compressor can also function as a power bank. Connect your mobile phone or other USB-powered devices to the USB output port on the pump using your device's charging cable. This feature is useful for charging devices on the go or during emergencies.

6.2 LED Flashlight

The integrated LED light offers three modes:

- **Illumination:** Provides bright light for general use, such as inspecting tires at night or working in low-light conditions.
- **Flash:** A flashing light mode for increased visibility or signaling.
- **SOS:** Emits an SOS signal in Morse code, useful for emergency situations.

To activate the LED light, press the dedicated light button. Cycle through the modes by pressing the button repeatedly.

7. Maintenance

- **Cleaning:** Wipe the exterior of the pump with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the device is off and disconnected from power before cleaning.
- **Storage:** Store the pump and all accessories in the provided storage bag in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Care:** To prolong battery life, charge the pump at least once every three months, even if not in use. Avoid fully discharging the battery frequently.
- **Hose and Nozzle Inspection:** Regularly inspect the inflation hoses and nozzles for any signs of wear, cracks, or damage. Replace if necessary to ensure proper sealing and efficient inflation.

8. Troubleshooting

Problem	Possible Cause	Solution
Pump does not turn on.	Low battery; Power button not pressed long enough.	Charge the battery; Press and hold the power button for 3-5 seconds.
Pump inflates slowly or not at all.	Incorrect nozzle; Hose not securely connected; Leak in hose/nozzle; Item valve not fully open.	Ensure correct nozzle is used; Check all connections for tightness; Inspect hose/nozzle for damage; Ensure item valve is open.
Pump stops before reaching target pressure.	Battery too low; Overheating protection activated.	Recharge the pump; Allow the pump to cool down for 10-15 minutes before resuming operation.
Inaccurate pressure reading.	Sensor calibration issue; Loose connection.	Ensure hose is tightly connected to the valve; If issue persists, contact customer support.
Pump becomes hot during use.	Normal operation during extended use; Overheating.	This is normal for powerful pumps. If excessively hot or pump stops, allow it to cool down.

9. Specifications

Feature	Detail
Model Number	AP10
Brand	MOONCOOL
Power Source	Battery Powered (6000 mAh Lithium-polymer) / 12V DC Car Power
Max Pressure	150 PSI (10.3 BAR)
High Pressure Air Flow	Up to 30 L/min
High Volume Air Flow	Max 130 L/min
Motor Speed	16,000 RPM
Dimensions (L x W x H)	9.2 x 5 x 17.2 cm
Weight	610 Grams
Display	Digital LCD with real-time pressure gauge
LED Light Modes	Illumination, Flash, SOS

10. Warranty and Support

MOONCOOL products undergo strict inspection and testing from design to manufacturing. If you have any questions or require assistance with your MOONCOOL Portable Air Compressor, please contact our customer support team. We are committed to providing support within 24 hours.
Please refer to your purchase documentation for specific warranty terms and conditions.

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