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VEVOR YD-127-AI

VEVOR 12V Heavy Duty Air Compressor

MODEL: YD-127-AI - INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the safe and efficient operation of your VEVOR 12V Heavy Duty Air Compressor (Model YD-127-AI). This portable tire inflator is designed for rapid inflation of various tires, including those on cars, SUVs, trucks, RVs, motorcycles, and bicycles, as well as recreational equipment. Please read all instructions carefully before use and retain this manual for future reference.



Figure 1: VEVOR 12V Heavy Duty Air Compressor with included accessories.

2. Safety Instructions

- Always operate the compressor in a well-ventilated area.
- Ensure the vehicle engine is running when connecting the compressor to the battery to prevent battery drain.
- Do not touch the air hose or cylinder during operation as they may become hot. Allow the pump to cool after every 25 minutes of continuous use for at least 30 minutes.
- Wear appropriate eye protection during operation.
- Keep children and pets away from the operating area.
- Do not exceed the maximum working pressure of 150 PSI.
- Always disconnect the compressor from the power source when not in use or before performing maintenance.

Automatic Overheat Protection

Automatically activates when the internal temperature gets too high



Figure 2: The compressor features automatic overheat protection to prevent motor damage.

3. Package Contents

The VEVOR 12V Heavy Duty Air Compressor package includes the following items:

- 1 x Heavy Duty Air Compressor
- 1 x Power Cord (6.56 ft / 2 m) with battery clamps
- 1 x Rubber Air Hose (25.6 ft / 7.8 m)
- 1 x Thumb-Lock Adapter
- 1 x Inflation Needle

- 2 x Tapered Adapters
- 1 x Carrying Bag



| | |
|--|---|
| Item Model Number: YD-127-A1 | Type: Heavy-Duty Single Cylinder Air Compressor |
| Max Air Flow: 7.14 CFM | Product Dimensions: |
| Rated Power: 540W | 13.2 x 5.91 x 8.94 inch / 335 x 150 x 227 mm |
| Input Voltage: DC 12V – DC 13.8V | Accessories: |
| Inflation Current: ≤45A | 1 x Inflation Needle 2 x Tapered Adapters |
| Max Working Pressure: 150 PSI | 1 x Carrying Bag 1 x Air Hose (25.6 ft / 7.8 m) |
| Material: Iron, Aluminum Alloy | 1 x Thumb-Lock Adapter |
| Product Weight: 19.05 lbs / 8.64 kg | |

Figure 3: Package contents and key dimensions of the air compressor.

4. Product Features

- **Fast & Efficient Inflation:** Delivers 7.14 CFM (Cubic Feet Per Minute) airflow and 150 PSI maximum working pressure for rapid tire inflation.
- **Preset Pressure & Auto Stop:** Features an LCD digital display for real-time tire pressure monitoring. Set your desired pressure, and the compressor will automatically stop when reached, preventing over or under-inflation.

- **Wide Applications:** Equipped with 3 nozzle adapters and 1 thumb-lock adapter, suitable for various vehicles (cars, SUVs, trucks, RVs, motorcycles, bicycles) and inflatable items (balls, toys, boats).
- **Reliable Safety Protection:** Built-in overheat protection system safeguards the motor from high temperatures, ensuring safe and long-lasting performance.
- **Extended Reach:** Includes a 6.56 ft power cord and a 25.6 ft rubber air hose, allowing easy access to all tires on most vehicles.



Figure 4: High performance for fast and efficient inflation.

Preset Pressure & Auto Shut-Off



Clear
LCD Display



Real-Time PSI
Monitoring



Auto Stop
at Set Pressure

Figure 5: LCD digital display for real-time monitoring and auto-stop functionality.

5. Specifications

| Specification | Value |
|-------------------|-------------------|
| Item Model Number | YD-127-A1 |
| Max Air Flow | 7.14 CFM |
| Rated Power | 540W |
| Input Voltage | DC 12V - DC 13.8V |
| Inflation Current | ≤45A |

| | |
|----------------------|---|
| Max Working Pressure | 150 PSI |
| Material | Iron, Aluminum Alloy |
| Product Weight | 19.05 lbs / 8.64 kg |
| Product Dimensions | 14.37 x 5.91 x 8.94 inches / 335 x 150 x 227 mm |
| Hose Length | 25.6 Feet / 7.8 m |

6. Setup

To set up your VEVOR Air Compressor:

1. Place the compressor on a stable, flat surface near the tire to be inflated.
2. Open your vehicle's hood and locate the 12V battery.
3. Ensure the vehicle engine is running to provide sufficient power and prevent battery drain.
4. Connect the red alligator clamp of the power cord to the positive (+) terminal of the car battery.
5. Connect the black alligator clamp of the power cord to the negative (-) terminal of the car battery.
6. Attach the rubber air hose to the compressor's air outlet.
7. Screw the thumb-lock adapter onto the tire valve stem. Ensure a secure connection to prevent air leakage.



Figure 6: Proper connection of the air compressor to the vehicle battery.

Easily Reaches Every Tire



25.6ft

long hose

6.56ft

power cord for
flexible tire inflation



Figure 7: The extended hose length allows easy access to all tires.

7. Operating Instructions

Follow these steps to inflate your tires:

1. After connecting the compressor and hose as described in the Setup section, turn on the compressor using the power switch.
2. The LCD digital display will illuminate, showing the current tire pressure.
3. Use the '+' and '-' buttons to set your desired target pressure. The display allows switching between different units (e.g., PSI, Bar, KPA).

- Once the desired pressure is set, press the 'Play' button to start inflation.
- The compressor will automatically stop once the preset pressure is reached.
- After inflation, turn off the compressor, unscrew the thumb-lock adapter from the tire valve, and disconnect the power clamps from the battery.

8. Maintenance

- Regularly inspect the air hose and power cord for any signs of wear or damage. Replace if necessary.
- Keep the compressor clean and free from dust and debris.
- Store the compressor in its carrying bag in a dry, cool place when not in use.
- Allow the compressor to cool down after extended use to prolong its lifespan.

9. Troubleshooting

- Compressor not turning on:** Ensure the power clamps are securely connected to the correct battery terminals and the vehicle engine is running. Check the inline fuse on the power cord.
- Slow inflation:** Verify that the air hose connection to the tire valve is secure and not leaking. Ensure the vehicle engine is running to provide optimal power.
- Compressor overheats:** The built-in overheat protection will automatically shut down the unit. Allow it to cool down for at least 30 minutes before resuming operation.
- Inaccurate pressure reading:** Ensure the thumb-lock adapter is fully screwed onto the tire valve stem. If discrepancies persist, use a separate, calibrated tire gauge to verify pressure.

10. Warranty and Support

For warranty information, technical support, or any inquiries regarding your VEVOR 12V Heavy Duty Air Compressor, please refer to the contact details provided in your product packaging or visit the official VEVOR website. Always provide your model number (YD-127-A1) when seeking support.