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› AUNMAS /

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Model: DC12V Vacuum Pump

1. INTRODUCTION

Thank you for choosing the AUNMAS DC12V Vacuum Pump. This manual provides essential information for the safe and efficient use of your new pump. Please read these instructions carefully before installation and operation, and retain them for future reference. This pump is designed for various applications requiring air pumping or inflation, such as in small electrical devices, laboratory settings, and specific equipment.

2. SAFETY INFORMATION

- Ensure the power supply matches the pump's nominal voltage (DC 12V). Incorrect voltage can damage the device.
- Do not operate the pump in wet or excessively dusty environments.
- Keep the pump away from flammable or explosive materials.
- Avoid blocking the air inlet or outlet during operation to prevent overheating and damage.
- This pump is designed for gas medium only. Do not use it with liquids.
- For aquarium aeration, this pump is not suitable for long-term uninterrupted work.

3. PRODUCT OVERVIEW

3.1 Features

- **Long Service Life:** The pump has undergone 100,000 cycles of testing, ensuring durability.
- **Quiet Operation:** Operates at less than 55dB, suitable for noise-sensitive environments.
- **High Flow Rate:** Delivers a flow rate exceeding 15 liters per minute.
- **Excellent Air Tightness:** Specifically designed for inflation applications, providing reliable sealing.
- **Versatile Application:** Suitable for air compressors, mobile phone repair, fitness massage equipment, and laboratory-specific pumping tasks.

3.2 Components

The AUNMAS DC12V Vacuum Pump consists of a DC motor and a pump head assembly. The motor provides the power, while the pump head handles the air intake and output. Electrical terminals are located at the rear of the motor for power connection, and an air outlet/inlet port is on the pump head.



Figure 1: Side view of the AUNMAS DC12V Vacuum Pump, showing the motor and pump head assembly with electrical terminals.



Figure 2: Close-up view of the motor section of the AUNMAS DC12V Vacuum Pump, displaying the 12V 3600 label.

4. SPECIFICATIONS

| Parameter | Value |
|------------------------|-----------------------------|
| Nominal Voltage | DC 12V |
| Nominal Current | 800mA |
| Minimum Pressure | > 53.33 kPa |
| Flow Rate | > 15 L/min |
| Sound Level | < 55 dB |
| Life Test | > 100,000 cycles |
| Medium | Gas |
| Weight | 316 g |
| Material | Plastic |
| Dimensions (L x W x H) | Approximately 12 x 6 x 6 cm |

5. SETUP

- Unpacking:** Carefully remove the pump from its packaging. Inspect for any visible damage.
- Mounting (Optional):** If required for your application, secure the pump in a stable position using appropriate fasteners. Ensure adequate ventilation around the pump.
- Connecting Air Hoses:** Attach the appropriate air hoses to the inlet and outlet ports of the pump. Ensure connections are secure and airtight to prevent leaks.
- Power Connection:** Connect the DC 12V power supply to the electrical terminals on the motor. Observe correct polarity (positive to positive, negative to negative) to avoid damage.
- Initial Check:** Before full operation, briefly power on the pump to ensure it starts and runs smoothly without unusual noises.

6. OPERATING INSTRUCTIONS

- Power On:** Once all connections are secure, apply DC 12V power to the pump. The pump will begin operation.
- Monitoring:** Observe the pump during operation. Ensure it is functioning as expected for your application.
- Typical Applications:** This pump is suitable for tasks such as providing air pressure for small air compressors, assisting in mobile phone screen removal (by creating vacuum), operating fitness massage equipment, and various laboratory pumping or inhalation tasks.
- Important Note for Aquarium Use:** If using this pump for aquarium aeration, it is crucial to understand that it is **not designed for long-term uninterrupted operation**. Prolonged continuous use in such applications may reduce its lifespan.
- Power Off:** To stop the pump, disconnect the DC 12V power supply.

7. MAINTENANCE

- Regular Cleaning:** Periodically clean the exterior of the pump with a dry, soft cloth. Ensure no dust or debris accumulates around the air inlet/outlet or motor vents.
- Inspect Connections:** Regularly check all electrical and air hose connections for tightness and integrity.

Replace any worn or damaged hoses.

- **Storage:** When not in use for extended periods, store the pump in a clean, dry environment, away from extreme temperatures and direct sunlight.
- **No User-Serviceable Parts:** The internal components of the pump are not user-serviceable. Do not attempt to disassemble the pump, as this will void any potential warranty and may cause damage.

8. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--------------------------------|---|---|
| Pump does not start | No power supply; Incorrect voltage; Loose electrical connections; Damaged motor. | Check power source (DC 12V); Verify electrical connections are secure and correct polarity; If motor is damaged, contact support. |
| Low air flow/pressure | Air leaks in hoses/connections; Blocked inlet/outlet; Worn pump components. | Inspect and secure all air connections; Clear any obstructions from inlet/outlet; If performance does not improve, contact support. |
| Unusual noise during operation | Loose mounting; Internal component issue. | Ensure pump is securely mounted; If noise persists, discontinue use and contact support. |
| Pump overheats | Insufficient ventilation; Prolonged continuous operation beyond recommended limits; Blocked air flow. | Ensure adequate space around the pump for air circulation; Avoid continuous operation for extended periods, especially in high-demand applications; Clear any obstructions. |

9. WARRANTY AND SUPPORT

AUNMAS products are manufactured to high-quality standards. For any warranty claims, technical support, or service inquiries, please contact the seller or manufacturer directly through your purchase platform. Please have your purchase details and product model information ready when contacting support.

For further assistance, please refer to the contact information provided at the point of purchase.