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› [AC Infinity](#) /

› AC Infinity AXIAL 1238W Muffin Fan User Manual

AC Infinity AXIAL 1238W (HS1238A)

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Model: AXIAL 1238W (HS1238A)

1. INTRODUCTION

The AC Infinity AXIAL 1238W is a high-speed AC muffin fan designed for various cooling and ventilation applications. This fan operates on 100 to 120V AC power and features a durable dual-ball bearing motor, ensuring a long lifespan and reliable performance. It is suitable for DIY projects, replacing existing fans, or enhancing airflow in enclosures and systems requiring robust air movement.



Image 1.1: AC Infinity AXIAL 1238W Muffin Fan with included wire leads. This fan is designed for high-speed air movement in various applications.

2. PRODUCT FEATURES

- **Versatile Application:** Designed for projects requiring cooling or ventilation, or as a replacement fan for various products.
- **Connection Type:** Features terminal connectors and includes an optional wire-leads cord adapter for flexible installation.
- **Durability:** UL-certified fan with dual-ball bearings, rated for a lifespan of 67,000 hours. Can be mounted in any direction.
- **High Airflow:** This model is engineered to maximize airflow, providing significant air movement. Note that due to its high speed, it may produce noticeable noise in some applications.
- **Dimensions & Performance:** 120 x 120 x 38 mm (4.7 x 4.7 x 1.5 inches). Operates on 100 to 120V AC. Airflow: 110 CFM. Noise: 47 dBA. Speed: 2600 RPM.



PROJECT FANS

Designed for various DIY projects that requires cooling or ventilation. Being a standard size, it can also be used to replace fans found in many products on the market.

This model does not include fan guards or power plug cord.

Image 2.1: The AXIAL 1238W fan integrated into a project enclosure, demonstrating its use in DIY cooling and ventilation setups. This model does not include fan guards or a power plug cord.

SUPERIOR PERFORMANCE

Motor engineered to maximize airflow at the lowest noise levels. Features dual ball bearings made in Germany, rated at 67,000 hours.



Image 2.2: An internal view highlighting the fan's motor and dual ball bearings, engineered for superior performance and a long operational lifespan of 67,000 hours.

HEAVY-DUTY BUILD

Constructed of die-cast aluminum housing, the fan can withstand shocks and operate in harsh environments. The impeller and blades are molded with thermoplastic with high flammability resistance.



Image 2.3: The fan's heavy-duty construction, featuring a die-cast aluminum housing and thermoplastic impeller blades, designed to withstand shocks and operate in harsh environments.

3. SPECIFICATIONS

Feature	Detail
Model	AXIAL 1238W (HS1238A)
Product Dimensions (L x W x H)	120 x 120 x 38 mm (4.7 x 4.7 x 1.5 inches)
Voltage	100 to 120V AC
Wattage	18 watts
Airflow	110 CFM (Cubic Feet Per Minute)
Noise Level	47 dBA

Feature	Detail
Maximum Rotational Speed	2600 RPM
Bearings	Dual Ball
Lifespan	67,000 hours
Material	Aluminum frame, Thermoplastic impeller
Power Connector Type	Terminal Connectors
Item Weight	16 ounces
UL Certification	E503903

SPECIFICATIONS

MODEL | AXIAL 1238W
 FANS | HS1238A
 (UL CERT E503903)
 POWER | 100 to 120V AC, 18 Watt

BEARINGS | Dual Ball
 SPEED | 2600 RPM
 AIRFLOW | 110 CFM
 NOISE | 47 dBA



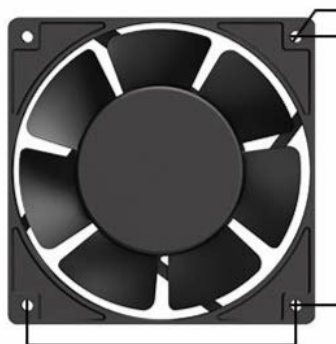
4.7"
(12.0 cm)

4.7" (12.0 cm)



4.7"
(12.0 cm)

1.5" (3.8 cm)



Ø 0.44 cm

4.13"
(10.5 cm)

4.13" (10.5 cm)



Total
Cord Length

24"
(60.96 cm)

Image 3.1: Visual representation of the fan's dimensions and key performance specifications, including airflow, noise, and speed.

4. SETUP AND INSTALLATION

The AXIAL 1238W fan is designed for hard-wire installation. Ensure all power is disconnected before proceeding with installation.

1. **Safety First:** Always disconnect power from the circuit before installing or servicing the fan. Consult a qualified electrician if you are unsure about electrical wiring.
2. **Mounting Location:** Choose a suitable location for mounting the fan, ensuring adequate space for airflow and secure attachment. The fan can be mounted in any direction.
3. **Secure Mounting:** Use appropriate screws and hardware (not included) to securely fasten the fan to the desired surface. Ensure the fan is stable and free from vibrations.
4. **Wiring:**
 - The fan comes with terminal connectors and an optional wire-leads cord adapter.
 - Connect the fan's wires to your 100-120V AC power source. Typically, one wire is for live (hot) and the other for neutral. Refer to local electrical codes and diagrams for correct wiring.
 - Ensure all connections are secure and properly insulated to prevent electrical hazards.
5. **Airflow Direction:** Observe the arrow on the fan's frame, which indicates the direction of airflow. Install the fan to achieve the desired intake or exhaust configuration for your application.
6. **Testing:** Once installed and wired, restore power and test the fan's operation. Verify that it runs smoothly and moves air in the intended direction.



Image 4.1: The AXIAL 1238W fan showing its wire leads, ready for hard-wire connection to a 100-120V AC power source.

5. OPERATING INSTRUCTIONS

The AC Infinity AXIAL 1238W fan is designed for continuous operation once properly installed and powered. It does not feature integrated speed control or on/off switches; these functions must be managed externally through your electrical setup.

- **Power On/Off:** Control the fan's operation by switching the power to the circuit it is connected to.
- **Continuous Operation:** The fan is built for long-term, continuous use in appropriate environments.
- **Noise Level:** As a high-speed fan, it produces 47 dBA of noise. Consider this when installing in noise-sensitive areas.
- **Airflow Monitoring:** Periodically check that the fan is moving air effectively and that there are no obstructions to airflow.



The AXIAL Series works for a wide range of DIY cooling and ventilation projects

Image 5.1: Examples of the AXIAL Series fans integrated into different DIY cooling and ventilation projects, illustrating their operational versatility.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your AC Infinity AXIAL 1238W fan.

1. **Power Disconnection:** Always disconnect the fan from the power source before performing any maintenance.
2. **Cleaning Blades:** Periodically inspect the fan blades for dust and debris accumulation. Use a soft brush or compressed air to gently clean the blades. Avoid using liquids directly on the fan.
3. **Housing Cleaning:** Wipe the fan housing with a dry or slightly damp cloth. Do not use harsh chemicals or abrasive cleaners.
4. **Bearing Check:** The dual-ball bearings are designed for long life and typically do not require lubrication. However, listen for any unusual noises during operation, which could indicate a bearing issue.
5. **Obstruction Removal:** Ensure that there are no obstructions around the fan's intake or exhaust that could impede airflow or cause the fan to overwork.

7. TROUBLESHOOTING

If you encounter issues with your AXIAL 1238W fan, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
Fan does not turn on.	No power supply; incorrect wiring; faulty fan.	<ul style="list-style-type: none">◦ Check if the power source is active.◦ Verify all electrical connections are correct and secure (refer to Section 4).◦ If power is confirmed and wiring is correct, the fan may be faulty and require replacement.
Fan is excessively noisy or vibrating.	Loose mounting; obstructions; worn bearings; unbalanced blades.	<ul style="list-style-type: none">◦ Ensure the fan is securely mounted and all screws are tightened.◦ Check for any objects obstructing the fan blades or airflow.◦ Inspect blades for damage or debris. Clean if necessary (refer to Section 6).◦ If noise persists and is unusual, bearings may be worn.
Reduced airflow.	Blocked intake/exhaust; dirty blades; fan running below optimal speed.	<ul style="list-style-type: none">◦ Clear any obstructions from the fan's path.◦ Clean fan blades thoroughly (refer to Section 6).◦ Ensure the fan is receiving the correct voltage (100-120V AC).

8. WARRANTY AND SUPPORT

AC Infinity products are designed for quality and durability. For specific warranty information regarding your AXIAL 1238W fan, please refer to the documentation included with your purchase or visit the official AC Infinity website. For technical support, product inquiries, or assistance with troubleshooting beyond this manual, please contact AC Infinity customer service directly.

You can find more information and contact details on the [AC Infinity Store on Amazon](#).