AC Infinity HS1238A-X

AC Infinity AXIAL 1238 Muffin Fan Instruction Manual

Model: HS1238A-X | Brand: AC Infinity

1. INTRODUCTION

The AC Infinity AXIAL 1238 is a high-speed AC muffin fan designed for a variety of cooling, ventilation, and exhaust projects. This manual provides essential information for the proper setup, operation, and maintenance of your fan to ensure optimal performance and longevity.

Image 1.1: The AC Infinity AXIAL 1238 Muffin Fan, showcasing its robust design, power cord, and included fan guards.

2. PACKAGE CONTENTS

Verify that all components are present in your package:

- AC Infinity AXIAL 1238 Muffin Fan (1 unit)
- Power Plug Cord (approx. 80 cm / 31.5 inches) (1 unit)
- Fan Guards (2 units)
- M4 Mounting Screws (4 units)
- M4 Nuts (4 units)

Image 2.1: View of the AC Infinity AXIAL 1238 fan from the back, displaying its label with model number and specifications, alongside the included mounting hardware and fan guards.

3. FEATURES

- **High Airflow:** Engineered to maximize airflow for effective cooling and ventilation.
- **Durable Construction:** Features a heavy-duty aluminum frame and thermoplastic impeller blades for longevity and resistance to harsh environments.
- **Dual-Ball Bearings:** Equipped with dual-ball bearings for a lifespan of 67,000 hours, allowing for flexible mounting orientations (flat or upright).
- **Versatile Application:** Ideal for DIY cooling, ventilation, and exhaust projects, or as a replacement fan.
- **Complete Kit:** Includes fan, power cord, two fan guards, and mounting hardware for immediate use.
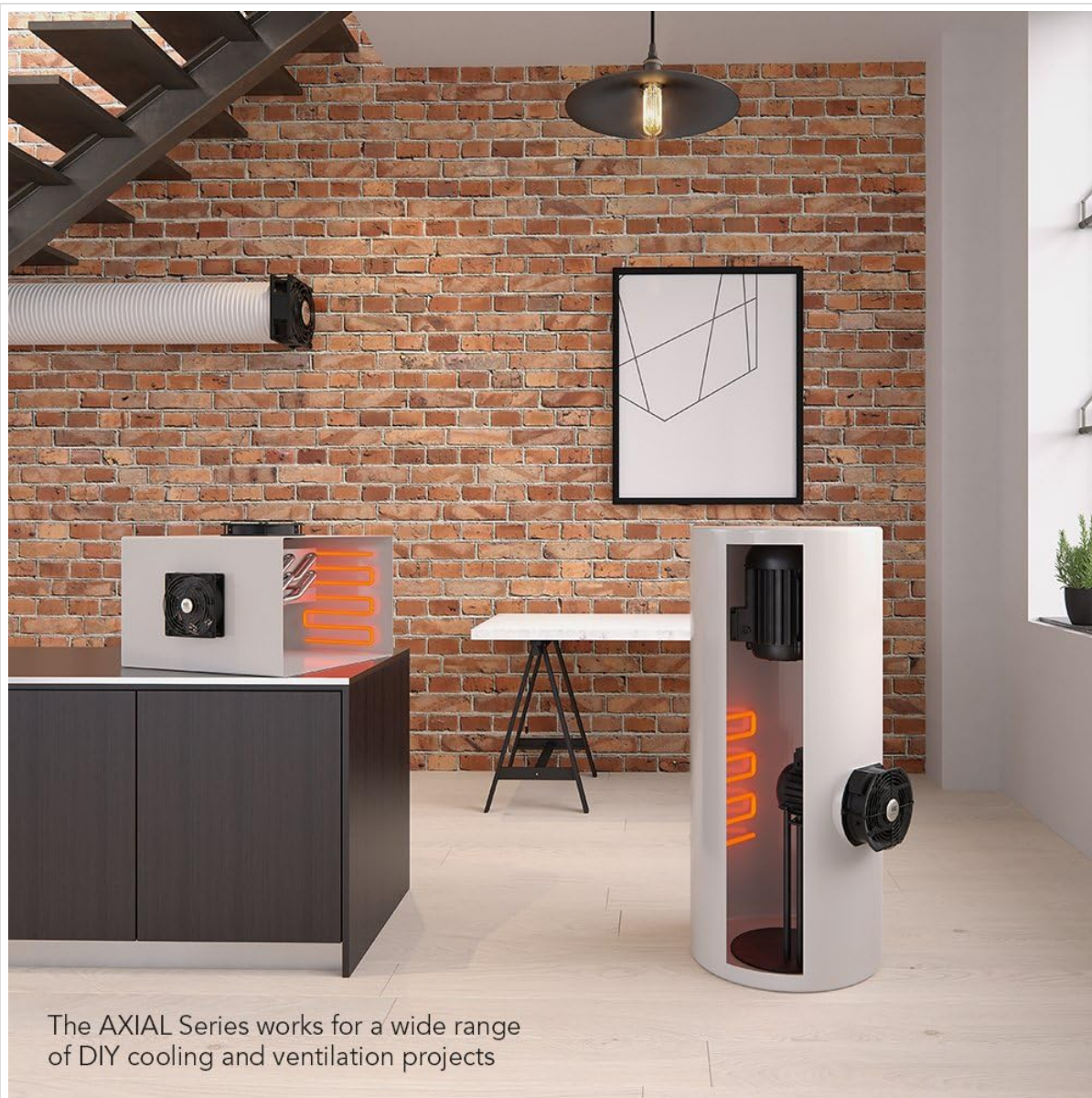
Image 3.1: An exploded view illustrating the internal motor and dual-ball bearing system of the AC Infinity AXIAL 1238, highlighting its superior performance design.

4. SETUP

Follow these steps to set up your AC Infinity AXIAL 1238 Muffin Fan:

1. **Determine Mounting Location:** Choose a suitable location for your fan, considering airflow direction and stability.
2. **Attach Fan Guards:** Place a fan guard on each side of the fan. Align the holes on the guards with the mounting holes on the fan frame.
3. **Secure Fan:** Use the provided M4 screws and nuts to secure the fan to your desired surface or enclosure. Ensure the fan is mounted securely to prevent vibration and noise.
4. **Connect Power:** Plug the included power cord into the fan's 2-pin connector.
5. **Power On:** Insert the US Standard 2-prong plug into a 115V-120V AC power outlet. The fan will begin operating immediately.

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

Image 4.1: Examples of the AXIAL 1238 fan integrated into different DIY cooling and ventilation setups, demonstrating its versatility in project applications.

5. OPERATING INSTRUCTIONS

The AC Infinity AXIAL 1238 fan operates continuously once connected to a power source. There are no external controls on the fan itself. To turn the fan off, disconnect it from the power outlet.

- **Power Connection:** Connect the fan to a standard 115V-120V AC outlet.
- **Airflow Direction:** Ensure the fan is oriented to provide the desired airflow (intake or exhaust) for your application.
- **Noise Level:** This is a high-speed fan designed for maximum airflow. It produces a noise level of 47 dBA, which may be noticeable in quiet environments.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your fan:

- **Cleaning:** Periodically clean the fan blades and guards to prevent dust buildup, which can reduce airflow and increase noise. Use a soft brush or compressed air. **Always disconnect power before cleaning.**

- **Inspection:** Check for any loose screws or damage to the fan frame or blades. Tighten any loose fasteners.
- **Bearing Longevity:** The dual-ball bearings are designed for long-term, maintenance-free operation and do not require lubrication.

7. TROUBLESHOOTING

If you encounter issues with your fan, refer to the following troubleshooting guide:

- **Fan Not Turning On:**

  - Ensure the power cord is securely plugged into both the fan and a working 115V-120V AC outlet.
  - Test the outlet with another device to confirm it has power.

- **Excessive Noise or Vibration:**

  - Verify that the fan is securely mounted and all screws are tightened.
  - Check for any obstructions (e.g., loose wires, debris) hitting the fan blades.
  - Clean any dust buildup on the blades or guards.
  - Note that this is a high-speed fan, and a certain level of operational noise (47 dBA) is normal.

- **Reduced Airflow:**

  - Inspect fan blades and guards for dust or obstructions.
  - Ensure the fan is not blocked by surrounding objects.

8. SPECIFICATIONS

SPECIFICATIONS

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

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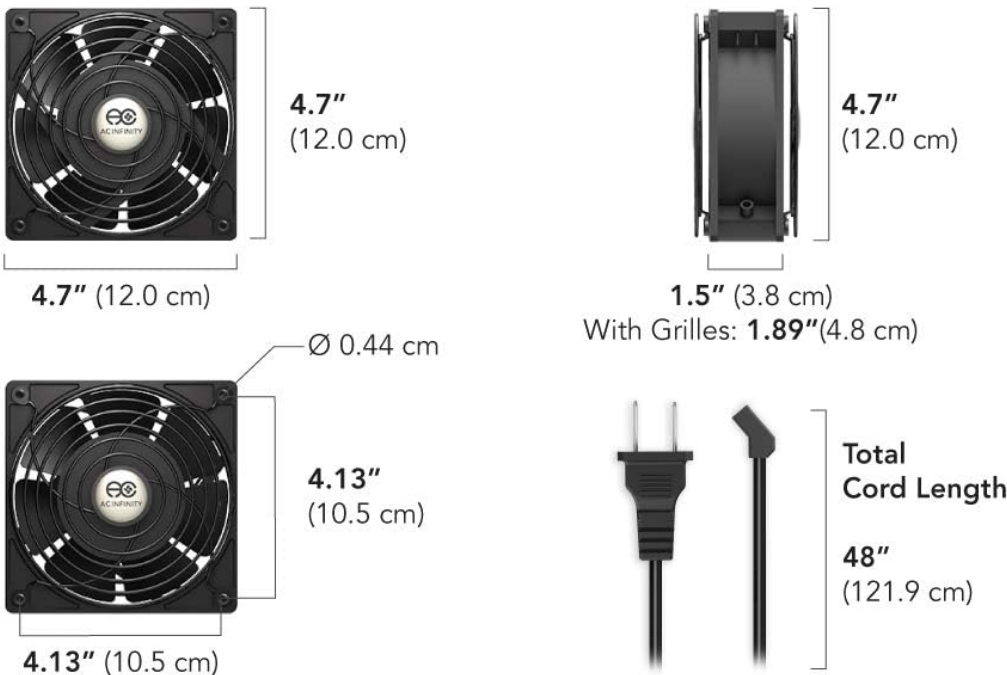SPEED | 2600 RPM
AIRFLOW | 110 CFM
NOISE | 47 dBA

4.7" (12.0 cm)
4.7" (12.0 cm)

4.7" (12.0 cm)
1.5" (3.8 cm)
With Grilles: 1.89"(4.8 cm)

Ø 0.44 cm
4.13" (10.5 cm)
4.13" (10.5 cm)

Total Cord Length
48" (121.9 cm)

Image 8.1: A diagram detailing the physical dimensions and key performance specifications of the AC Infinity AXIAL 1238 fan.

Specification	Value
Model	HS1238A-X
Dimensions	120 x 120 x 38 mm (4.7"L x 4.7"W x 1.5"H)
Voltage	115V - 120V AC
Wattage	18 watts
Airflow	110 CFM (Cubic Feet Per Minute)
Noise Level	47 dBA
Maximum Rotational Speed	2600 RPM
Bearings	Dual Ball
Lifespan	67,000 hours
Material	Aluminum (Frame)
Power Connector Type	2-Pin

Specification	Value
Plug Format	US Standard 2-Prong
Certifications	CE, RoHS, TUV, UL

9. WARRANTY AND SUPPORT

AC Infinity provides a **1-year warranty** that covers all defects in materials and workmanship for the AXIAL 1238 Muffin Fan.

For technical support, warranty claims, or additional product information, please visit the official AC Infinity store or contact their customer service directly.

Visit the AC Infinity Store