

HONGRUI-FENGMAOFENGMAO1-A10

Generic 18-inch (450mm) Stainless Steel 304 Non-Powered Roof Wind Turbine Ventilator User Manual

Model: 18in/450mm Stainless Steel 304 (HONGRUI-FENGMAOFENGMAO1-A10)

Brand: Generic



1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Generic 18-inch (450mm) Stainless Steel 304 Non-Powered Roof Wind Turbine Ventilator. This product is designed to enhance air circulation in various settings, including attics, kitchens, bathrooms, warehouses, factories, and residential buildings, by utilizing natural wind and air convection.

Key Features:

- **Durable Construction:** Made from thickened 304 stainless steel, ensuring durability, rainproof, rust-proof, and corrosion-resistant properties.
- **Non-Powered Operation:** Utilizes natural wind and air convection for ventilation, converting parallel airflow into vertical airflow without requiring electricity.
- **Silent and Continuous:** Designed for noiseless, automatic, and continuous operation with minimal maintenance.
- **Versatile Application:** Suitable for a wide range of environments, from large industrial facilities to residential homes.
- **Flexible Installation:** Can be installed on roof slopes ranging from 0 to 22.5 degrees.

2. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- Vent Hood x 1
- Clamp x 1

Our products



304 Stainless Steel



Durable

Material

Other products



201 Stainless Steel



Not Durable

No Rust

Image: The roof turbine ventilator, showing the included clamp and the fixed feet designed for direct installation. The clamp helps prevent gaps during installation.

3. SAFETY INFORMATION

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in property damage or injury.

- Always wear appropriate personal protective equipment (PPE) during installation, including gloves and eye protection.
- Ensure stable footing when working on roofs or elevated surfaces.
- Consult local building codes and regulations for proper installation requirements.
- If you are unsure about any part of the installation process, seek professional assistance.

4. SETUP AND INSTALLATION

The ventilator is designed for flexible installation on roof slopes from 0 to 22.5 degrees. The fixed feet allow for direct

mounting, and the included clamp helps secure the unit and prevent gaps.

Installation Steps:

1. **Determine Location:** Choose a suitable location on the roof that allows for optimal wind exposure and ventilation.
2. **Prepare Opening:** Create an opening in the roof structure that matches the base diameter of the ventilator. Refer to the size chart for precise dimensions.
3. **Secure Base:** Position the ventilator base over the opening. Use the fixed feet to secure the base to the roof structure using appropriate fasteners (not included). Ensure a watertight seal around the base.
4. **Attach Clamp:** Use the provided clamp to further secure the ventilator, especially to prevent any gaps that could compromise its stability or weather resistance.
5. **Verify Stability:** After installation, ensure the ventilator is firmly attached and rotates freely without obstruction.



Image: A size chart detailing various dimensions (A, B, C) for different roof vent cap sizes, including 18in/450mm. This chart is crucial for selecting the correct model and preparing the installation opening.



Image: Multiple examples of the roof turbine ventilator installed on different types of roofs and ventilation pipes, demonstrating its versatile application.

5. OPERATING INSTRUCTIONS

This roof wind turbine ventilator operates automatically and continuously without the need for electrical power.

- **Natural Convection:** The turbine utilizes the principle of natural wind and air convection. As wind passes over the turbine, it creates a low-pressure area, drawing stale, hot air out from the interior space.
- **Continuous Ventilation:** The design ensures continuous rotation and ventilation, even in light breezes, providing constant air exchange.
- **Noiseless Operation:** Precision-engineered ball bearings ensure smooth, silent rotation, minimizing noise disturbance.
- **Weather Resistance:** The 304 stainless steel construction allows for effective operation in various weather conditions, including rain, without compromising performance.



360° Rotation Without Power

Rust-proof Anti-corrosion

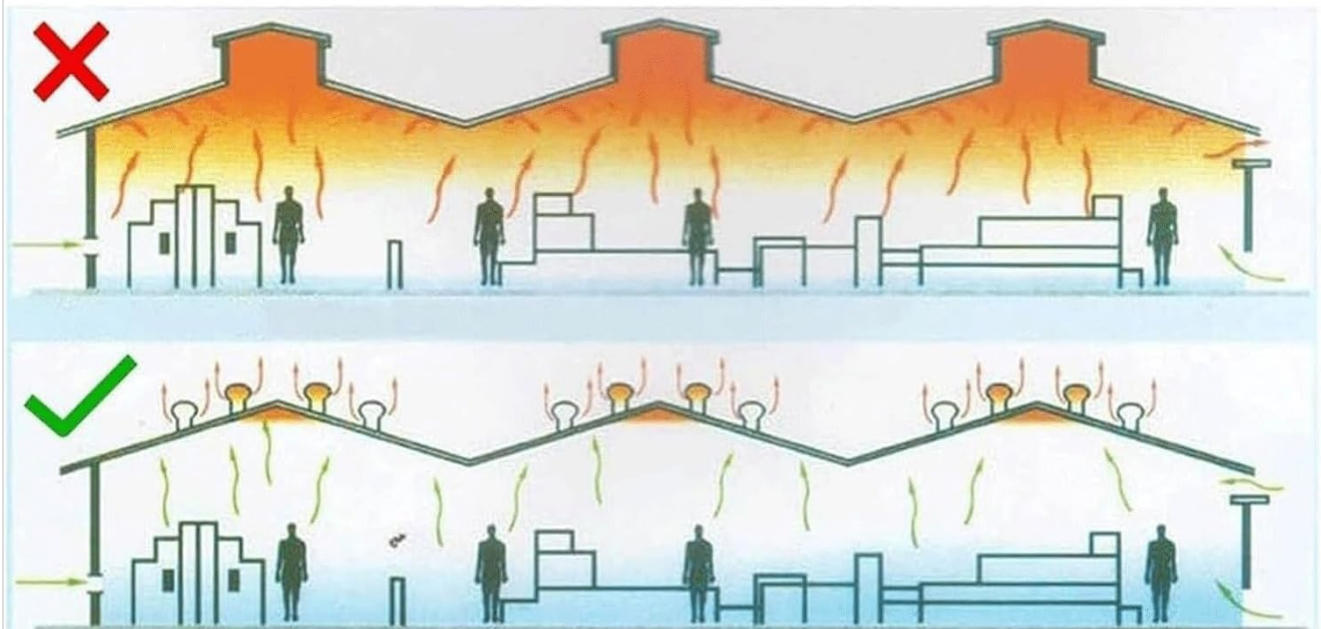


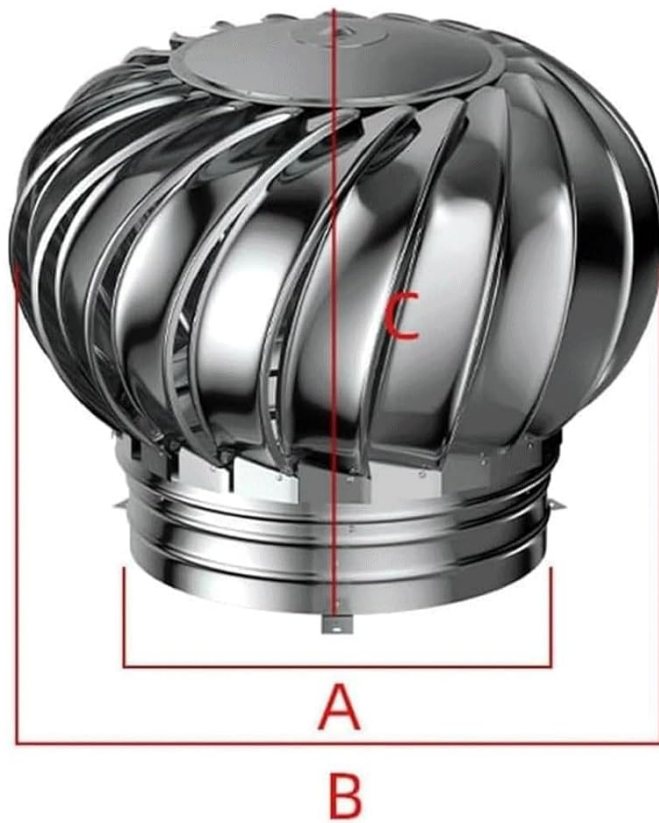
Image: A diagram showing the 360-degree rotation of the turbine without external power and an illustration of how the ventilator improves air circulation by exhausting hot air from a building.

6. MAINTENANCE

The Generic Stainless Steel 304 Non-Powered Roof Wind Turbine Ventilator is designed for minimal maintenance.

- **Periodic Inspection:** Periodically inspect the turbine for any debris accumulation, especially around the rotating parts. Clear any obstructions to ensure free rotation.
- **Structural Integrity:** Check the mounting points and the overall structure for any signs of wear, damage, or loosening. Tighten fasteners if necessary.
- **Cleaning:** If necessary, clean the exterior of the turbine with a mild detergent and water to remove dirt or grime. Avoid abrasive cleaners.

Roof Vent Cap Size



A	B	C
100 mm 4 in	280 mm 11 in	280 mm 11 in
110 mm 4.3 in	280 mm 11 in	280 mm 11 in
150 mm 6 in	280 mm 11 in	280 mm 11 in
160 mm 6.3 in	280 mm 11 in	280 mm 11 in
200 mm 8 in	280 mm 11 in	280 mm 11 in
250 mm 10 in	400 mm 16 in	350 mm 14 in
300 mm 12 in	400 mm 16 in	350 mm 14 in
350 mm 14 in	460 mm 18 in	380 mm 15 in
400 mm 16 in	500 mm 20 in	430 mm 17 in
450 mm 18 in	550 mm 22 in	430 mm 17 in
500 mm 20 in	600 mm 24 in	430 mm 17 in
600 mm 24 in	700 mm 28 in	460 mm 18 in
680 mm 27 in	Customized	Customized
800 mm 32 in	870 mm 34 in	630 mm 25 in
900 mm 35 in	Customized	Customized
1000 mm 40 in	1100 mm 43 in	750 mm 30 in
1200 mm 47 in	Customized	Customized

Image: A comparison illustrating the superior rust resistance of 304 Stainless Steel (used in this product) compared to 201 Stainless Steel, emphasizing the product's durability and low maintenance.

7. TROUBLESHOOTING

If you encounter any issues with your roof wind turbine ventilator, consider the following:

- **No Rotation:** Check for physical obstructions (e.g., leaves, branches, ice) preventing the turbine from spinning. Ensure the bearings are not seized (though this is rare with 304 stainless steel and sealed bearings).
- **Reduced Airflow:** Verify that the interior space has adequate intake vents to allow for proper air exchange. Ensure the turbine is not blocked from the inside.
- **Unusual Noise:** Inspect for loose components or debris caught within the rotating mechanism.

For persistent issues or concerns not addressed here, please contact customer support.

8. SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Brand	Generic
Model Number	HONGRUI-FENGMAOFENGMAO1-A10
Size	18 inches / 450 mm
Material	Stainless Steel 304
Color	Stainless Steel 304 (Classic Color)
Style	Roof Vent Fan
Included Components	Vent Hood, Clamp
Operation	Non-powered, Wind-driven
Installation Slope	0 to 22.5 degrees

9. SUPPORT

For any questions, concerns, or assistance, please contact customer support. All inquiries will be valued and replied to within 24 hours.

Note: Specific warranty information is not provided. Please refer to your purchase documentation or contact the seller for warranty details.

