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› Wathai 120x120x25mm 12V 2-Pin DC Brushless Cooling Fan User Manual

Wathai 12025H12V2P2.5

Wathai 120x120x25mm 12V 2-Pin DC Brushless Cooling Fan User Manual

Model: 12025H12V2P2.5 | Brand: Wathai

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Wathai 120x120x25mm 12V 2-Pin DC Brushless Cooling Fan. Please read this manual thoroughly before using the product to ensure safe and efficient performance.



Image 1.1: Wathai 120x120x25mm 12V 2-Pin DC Brushless Cooling Fan.

2. SAFETY INSTRUCTIONS

To prevent damage to the product or injury to yourself, observe the following safety precautions:

- Ensure the power source matches the fan's voltage requirements (12V DC). Connecting to an incorrect voltage may damage the fan.
- Do not touch the fan blades while the fan is operating.
- Keep the fan away from water or excessive moisture. This product is not waterproof.
- Disconnect power before installation, cleaning, or maintenance.
- Do not obstruct the fan's intake or exhaust. Ensure adequate airflow for optimal performance.
- Handle the fan by its frame, not by the wires.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Wathai 120x120x25mm 12V 2-Pin DC Brushless Cooling Fan
- 1 x Fan Grill
- Mounting Screws & Nuts

SPECIFICATIONS

Size:120x120x25mm	Air flow:92CFM
Rated Voltage:12V	Noise:37dBA
Rated Current: 0.45A	Bearing type: Sleeve Bearing
Connector: XH2.54-2Pin	Cable Length: 20cm Or 7.8 inches
Speed: 3000RPM	Air Pressure (In H2O): 0.27

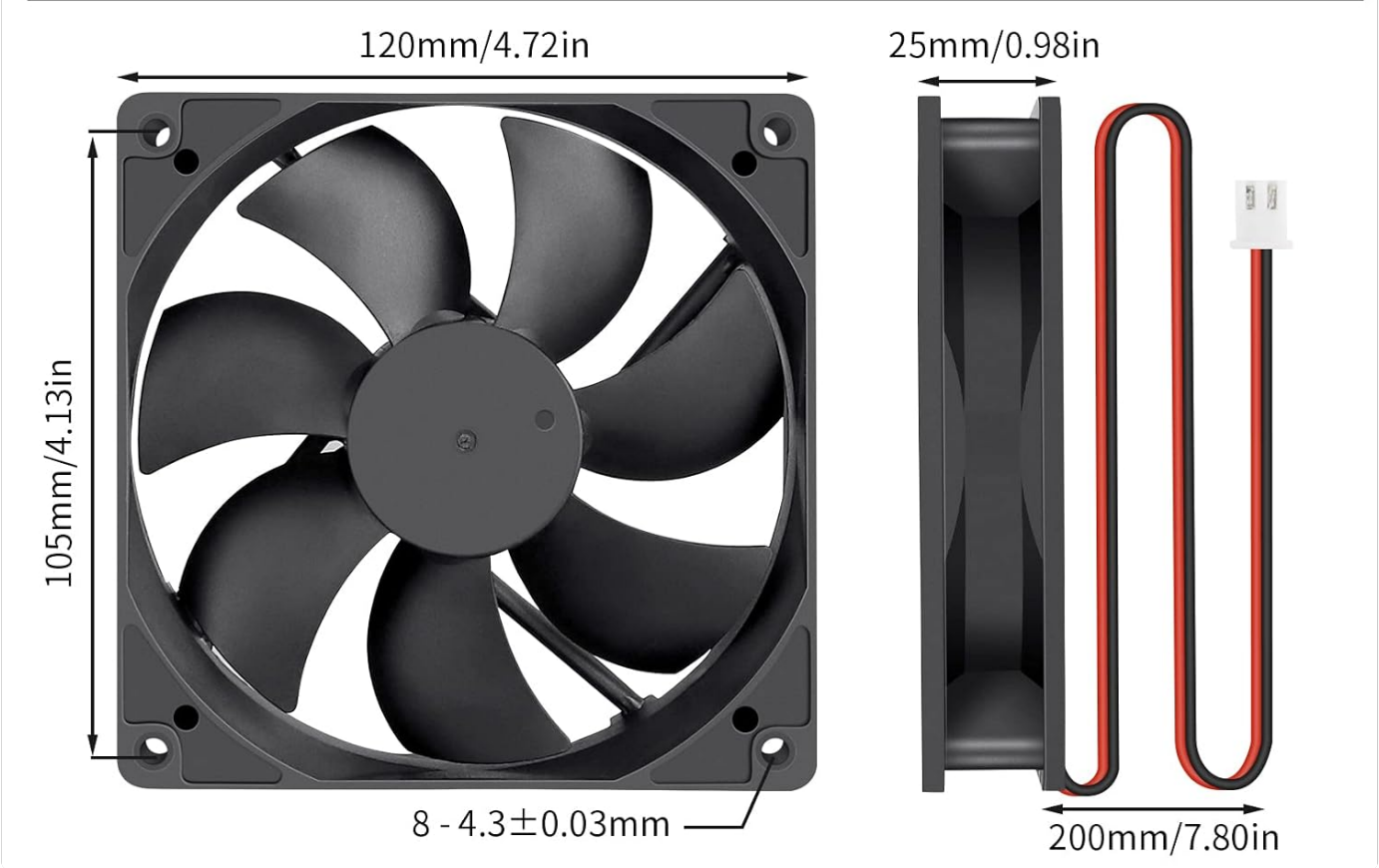


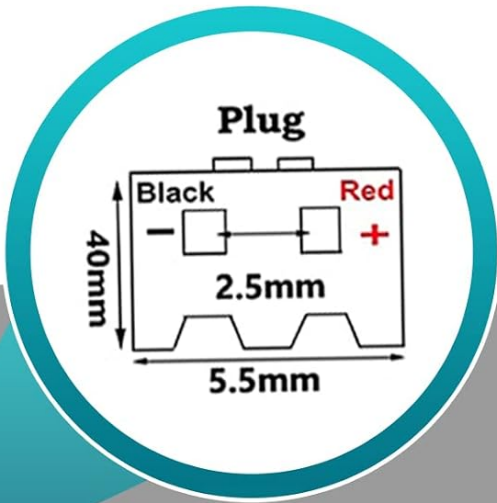
Image 3.1: Fan with included fan grill and mounting hardware.

4. SPECIFICATIONS

Feature	Specification
Model	12025H12V2P2.5
Dimensions (L x W x H)	120mm x 120mm x 25mm (4.72" x 4.72" x 1")
Rated Voltage	12V DC

Feature	Specification
Rated Current	0.45A
Power Connector Type	2-Pin (XH2.54)
Maximum Rotational Speed	3000 RPM
Air Flow Capacity	105 CFM (Cubic Feet Per Minute)
Noise Level	35 dBA
Bearing Type	Sleeve Bearing
Lifespan	40,000 hours
Cable Length	20 cm (7.8 inches)
Material	Plastic

XH2.54-2PIN



5. SETUP AND INSTALLATION

Follow these steps to install your Wathai cooling fan:

1. **Prepare the Mounting Location:** Identify the desired location for the fan. Ensure there is sufficient space for the fan (120x120x25mm) and proper airflow.
2. **Attach the Fan Grill (Optional but Recommended):** If using the included fan grill for protection, align it with the fan's screw holes and secure it using the provided screws.
3. **Mount the Fan:** Position the fan in the desired location. Use the provided mounting screws and nuts to firmly attach the fan to the surface. Ensure the fan is oriented correctly for intake or exhaust as needed for your application.
4. **Connect Power:** Connect the fan's 2-pin XH2.54 connector to a compatible 12V DC power source. The red wire is positive (+), and the black wire is negative (-). Ensure correct polarity.
5. **Verify Connection:** Double-check all connections before applying power.

Your browser does not support the video tag.

Video 5.1: A short demonstration of the 12V Cooling Fan, showing its basic operation and potential for DIY projects.

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Video 5.2: A brief overview of the DC 120mm Fan, highlighting its use for DIY cooling applications.

6. OPERATING INSTRUCTIONS

Once installed and connected to a 12V DC power source, the fan will begin to operate. The fan is designed for continuous operation.

- **Airflow Direction:** The fan typically has an arrow on its side indicating the direction of airflow and another arrow indicating the direction of blade rotation. Ensure the airflow direction meets your cooling requirements.
- **Noise Level:** This fan operates at 3000 RPM with a noise level of 35 dBA. While designed for efficient cooling, this speed may produce an audible sound.
- **Applications:** This fan is suitable for various cooling applications, including PC cases, amplifiers, gaming consoles, inverters, laptops, printers, projectors, refrigerators, routers, servers, and more.



Image 6.1: Illustration of fan airflow direction and typical noise level.



Image 6.2: Examples of various applications for the Wathai cooling fan.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your fan:

- **Cleaning:** Periodically inspect the fan blades and grill for dust accumulation. Disconnect power before cleaning. Use a soft brush, compressed air, or a damp cloth to gently remove dust. Do not use harsh chemicals or immerse the fan in liquid.
- **Bearing Type:** This fan uses a sleeve bearing, which is designed for a long lifespan (40,000 hours) under normal operating conditions. No lubrication is typically required.
- **Inspection:** Check for any loose connections or physical damage to the fan or its wiring.

8. TROUBLESHOOTING

If you encounter issues with your fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not spin	No power, incorrect voltage, loose connection, obstructed blades, faulty fan.	Ensure 12V DC power is supplied. Check power cable connection and polarity. Remove any obstructions. If issues persist, the fan may be faulty.
Fan is unusually loud	Obstruction, loose mounting, worn bearing, resonance.	Check for obstructions. Ensure the fan is securely mounted. While 35 dBA is the normal operating noise, excessive noise may indicate an issue.
Insufficient airflow	Blocked intake/exhaust, incorrect fan orientation, dust buildup.	Clear any blockages. Verify fan is oriented for desired airflow. Clean fan blades and grill.

9. WARRANTY AND SUPPORT

Wathai products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship.

- **Warranty Claims:** For warranty service, please retain your proof of purchase. Contact the retailer or Wathai customer support for assistance.
- **Technical Support:** If you require technical assistance or have questions not covered in this manual, please visit the official Wathai website or contact their customer service department.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question