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WINSINN DB402024F2P

WINSINN 40mm 24V Dual Ball Bearing Brushless Cooling Fan

Model: DB402024F2P - Instruction Manual

1. Introduction

This manual provides essential information for the safe and effective use of your WINSINN 40mm 24V Dual Ball Bearing Brushless Cooling Fan. This micro-sized, lightweight fan is designed for various cooling applications, including 3D printer extruders, hotends, nozzles, small PC cases, routers, Raspberry Pi devices, TV boxes, VR glasses, and other compact electronic equipment. It features high-quality dual ball bearings for extended operational life and a balance of high airflow with low noise.

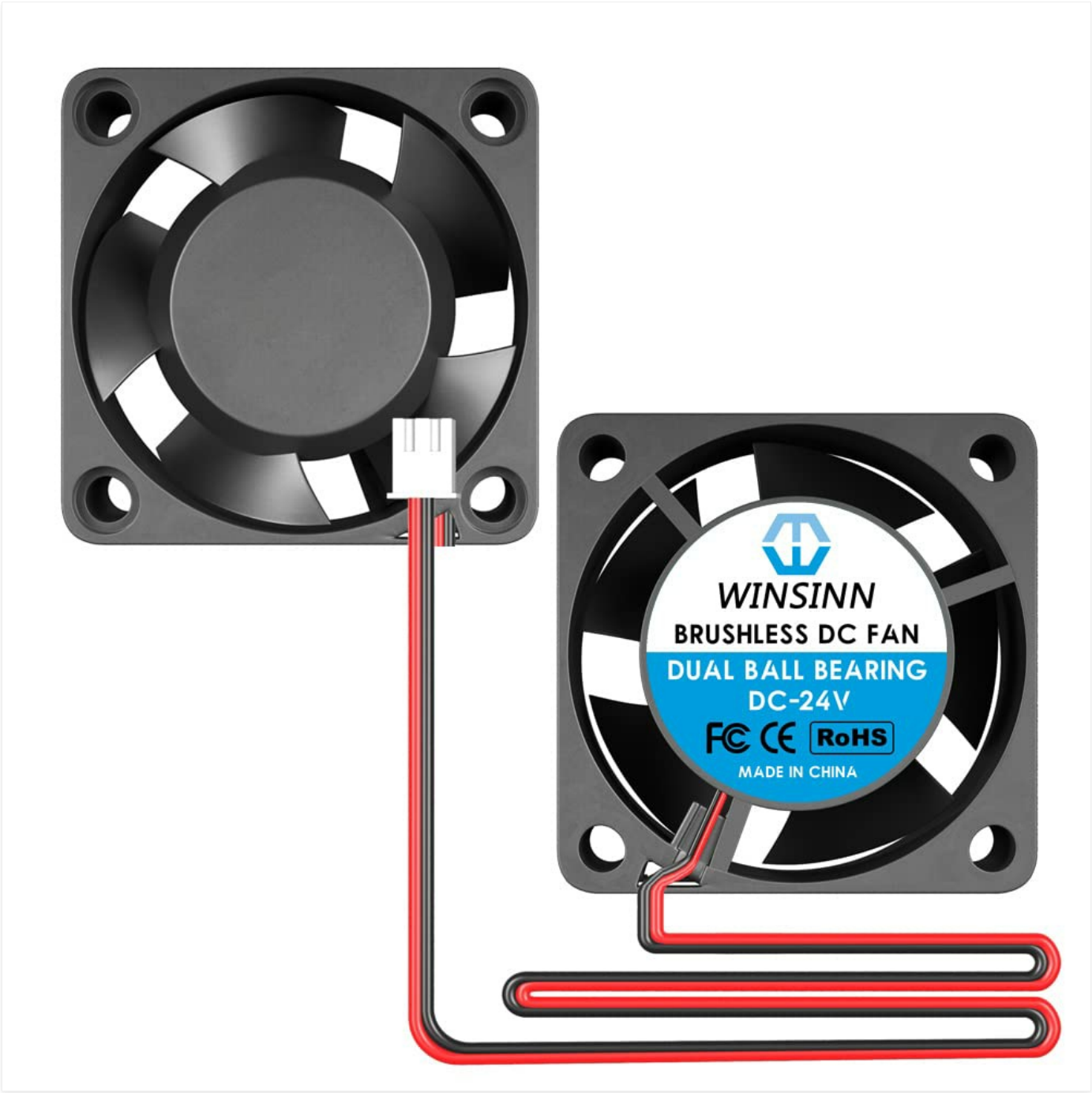


Figure 1: Front and back view of the WINSINN 40mm 24V Cooling Fan, showing the fan blades and the label with specifications.

2. Setup and Installation

Proper installation ensures optimal performance and longevity of the fan.

2.1 Physical Dimensions

- **Size:** 40mm x 40mm x 20mm (1.57"L x 0.79"W x 1.57"H)
- **Mounting Holes:** Four mounting holes, 4.3mm diameter, spaced 32mm apart.

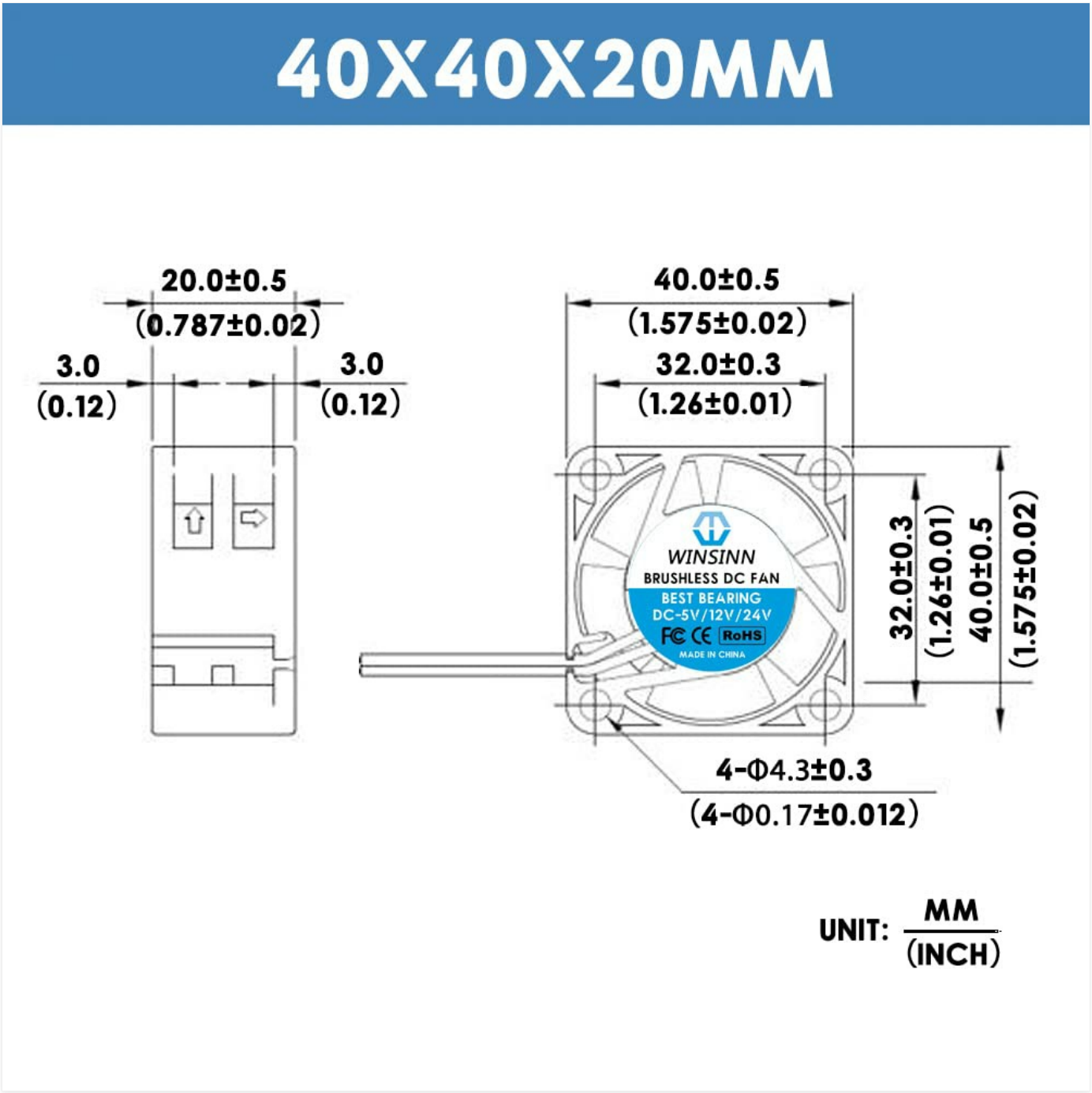


Figure 2: Detailed dimensional drawing of the 40x40x20mm fan, indicating measurements in millimeters and inches for precise fitting.

2.2 Electrical Connection

- **Connector Type:** XH2.54 (2-Pin)
- **Cable Length:** 300mm (11.8 inches)
- **Wiring:** The red wire is for positive (+) voltage, and the black wire is for negative (-) or ground. Ensure correct polarity when connecting to a 24V DC power source.



Figure 3: The fan with its XH2.54 2-pin connector and 300mm cable, illustrating the connection interface.

2.3 Mounting

1. Identify the desired mounting location, ensuring sufficient space for airflow.
2. Secure the fan using appropriate screws through the four mounting holes. Do not overtighten.
3. Ensure the fan is oriented to provide the desired airflow direction (intake or exhaust) for your application. The fan typically blows air out from the side with the label.

3. Operating Instructions

Once installed, the fan operates continuously when power is supplied.

- **Power On:** Connect the XH2.54 connector to a stable DC 24V power source. The fan will begin operating immediately.
- **Power Off:** Disconnect the power supply to stop the fan.
- **Continuous Operation:** This fan is designed for 24-hour continuous operation, offering a long lifespan of 50,000 hours under normal conditions.



Figure 4: Angled view of the fan, highlighting its compact design and robust construction.

4. Maintenance

The WINSINN 40mm fan is designed for low maintenance. Adhering to these simple guidelines will help ensure its long operational life.

- **Cleaning:** Periodically inspect the fan blades and housing for dust accumulation. Use compressed air or a soft, dry brush to gently remove any dust or debris. Ensure the fan is powered off before cleaning.
- **Obstruction Check:** Ensure that no cables, wires, or other objects are obstructing the fan blades, as this can reduce efficiency and cause damage.
- **Bearing Maintenance:** The fan utilizes dual ball bearings which are sealed and do not require lubrication. Do not attempt to lubricate the bearings.

5. Troubleshooting

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

- **Fan Not Spinning:**
  - Verify that the 2-pin XH2.54 connector is securely plugged into the power source.
  - Confirm that the power supply is providing a stable DC 24V.
  - Check for correct wiring polarity (Red to positive, Black to negative/ground).
  - Inspect for any physical obstructions preventing the fan blades from rotating.
- **Excessive Noise or Vibration:**
  - Ensure all mounting screws are tightened properly.
  - Check for any foreign objects that may be contacting the fan blades.
  - Verify that the fan is mounted on a flat, stable surface.
- **Insufficient Cooling:**
  - Ensure there are no obstructions blocking the intake or exhaust airflow.
  - Confirm the fan is oriented correctly to direct airflow to the desired area.
  - Clean any dust or debris from the fan blades and housing.

6. Specifications

Feature	Specification
Model Number	DB402024F2P
Dimensions	40mm x 40mm x 20mm (1.57"L x 0.79"W x 1.57"H)
Rated Voltage	DC 24V
Current	0.06A
Power	1.44W
Rotational Speed	8500 RPM
Air Pressure	9.75mmH_2O

Feature	Specification
Airflow	9.2 CFM
Noise Level	32.3 dBA
Bearing Type	Dual Ball Bearing
Connector Type	XH2.54 (2-Pin)
Cable Length	300mm (11.8 inches)
Lifespan	50,000 Hours
Material	Plastic
Compatible Devices	Desktop, 3D Printer, Router, Raspberry Pi, TV Box, VR Glasses

7. Warranty and Support

WINSINN stands behind the quality of its products.

- **Warranty:** This product is covered by a 5-year warranty on its dual ball bearings, reflecting its high-quality construction and expected longevity.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please refer to the official WINSINN store or contact customer service through the platform where the product was purchased. You can visit the WINSINN Store on Amazon for more information.

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