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- › [JAZZCOOLING](#) /
- › [JAZZCOOLING DM-120 120mm PC Case Fan Instruction Manual](#)

## JAZZCOOLING DM-120

# JAZZCOOLING DM-120 120mm PC Case Fan Instruction Manual

## 1. PRODUCT OVERVIEW

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The JAZZCOOLING DM-120 is a high-performance 120mm PC case fan designed to optimize airflow and cooling within your computer system. This fan features a 9-blade design, hydraulic bearing technology for quiet operation and extended lifespan, and includes rubber pads to minimize vibration and noise. It offers wide compatibility with both 3-pin motherboard connectors and 4-pin Molex PSU plugs.



Image 1.1: JAZZCOOLING DM-120 120mm PC Case Fans (3-pack). These fans are designed for efficient cooling and quiet operation in computer cases.

## Key Features:

- **Optimized Airflow:** 9-blade design for efficient air movement, reaching 43.28 CFM at 1,200 RPM.
- **Quiet Operation:** Equipped with 8 rubber pads to reduce vibration and a noise level of  $\leq 24.18$  dBA.
- **Durable Bearing:** High-performance hydraulic bearing (rifle bearing) with a lifespan exceeding 40,000 hours.
- **Broad Compatibility:** Supports both 3-pin motherboard fan headers and 4-pin Molex power supply connectors.
- **Standard Size:** 120mm x 120mm x 25mm, suitable for most ATX computer cases.

## 2. PACKAGE CONTENTS

Please verify that all components are present in the package:

- JAZZCOOLING DM-120 120mm PC Case Fans (3 units)
- Mounting Screws (12 units)



Image 2.1: The product package includes three DM-120 fans and the necessary mounting screws for installation.

### 3. SETUP AND INSTALLATION

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Follow these steps to properly install your JAZZCOOLING DM-120 PC case fans:

1. **Identify Mounting Location:** Determine the optimal locations within your PC case for fan installation (e.g., front intake, rear exhaust, top exhaust). Ensure the fan size (120mm) matches the case's mounting points.
2. **Orient the Fan:** Observe the arrows on the side of the fan frame. One arrow indicates the direction of airflow, and the other indicates the direction of blade rotation. Install the fan to achieve desired airflow (e.g., intake cool air, exhaust hot air).
3. **Secure the Fan:** Place the fan against the mounting holes in your PC case. Use the provided mounting screws to secure the fan firmly. The integrated rubber pads on each corner of the fan help absorb vibrations and reduce noise.

# DM-120 Rubber Shock Absorption Design

## 8 PCS Rubber Pads To Keep Working Silence

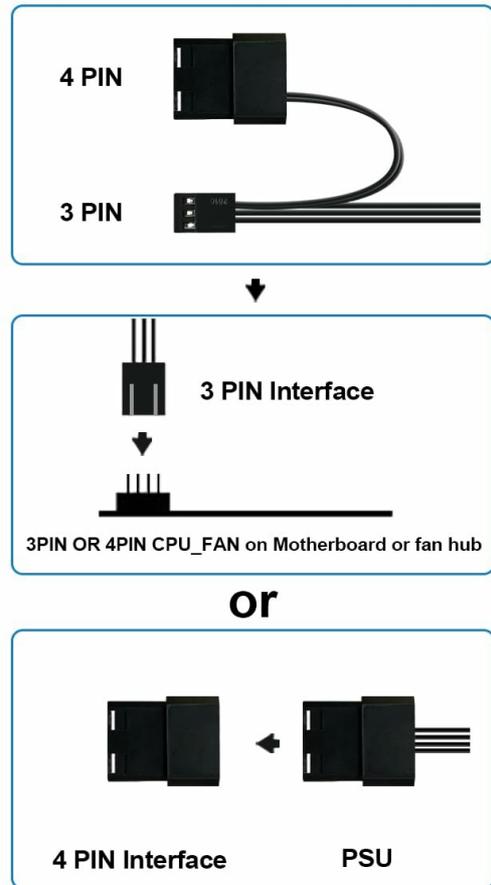


Image 3.1: Detail of the rubber shock absorption pads located at each corner of the DM-120 fan, designed to minimize noise and vibration.

4. **Connect Power:** The DM-120 fan offers two power connection options: a 3-pin connector for motherboard fan headers or a 4-pin Molex connector for direct power supply connection.
- **Motherboard Connection:** Connect the 3-pin connector to an available 3-pin or 4-pin fan header on your motherboard.
  - **PSU Connection:** Alternatively, connect the 4-pin Molex connector to a compatible 4-pin Molex plug from your power supply unit (PSU).

**Important: Do not connect both the 3-pin and 4-pin Molex connectors simultaneously to avoid potential short circuits or damage.**

# Easy To Install Perfect To DIY



**CAUTIONS: 4PIN and 3PIN CANT Connected At The Same Time To Avoid Short Circuit!**

Image 3.2: Connection options for the DM-120 fan. Users can choose between a 3-pin motherboard connection or a 4-pin Molex PSU connection, but not both at the same time.

## 4. OPERATING INSTRUCTIONS

Once installed and connected, the JAZZCOOLING DM-120 fan will operate automatically when your computer is powered on. The fan is designed for continuous operation to maintain optimal internal temperatures.

### Performance Characteristics:

- **Speed:** Approximately 1,200 RPM ( $\pm 10\%$ )
- **Airflow:** Up to 43.28 CFM (Cubic Feet per Minute)
- **Noise Level:**  $\leq 24.18$  dBA

# High Speed, Big Airflow, Low Noise

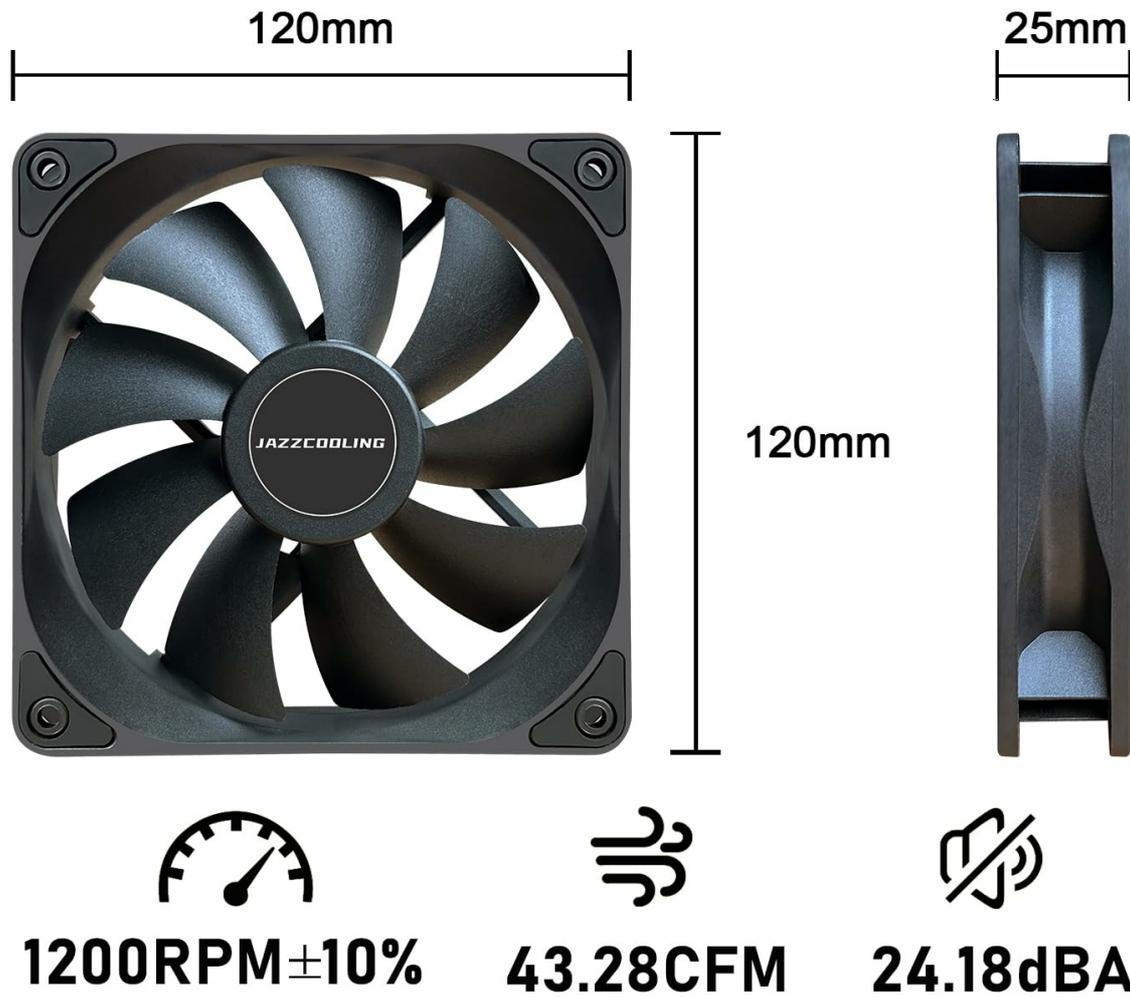


Image 4.1: Visual representation of the DM-120 fan's dimensions and key performance metrics.

## 5. MAINTENANCE

The JAZZCOOLING DM-120 fan is designed for low maintenance due to its high-performance hydraulic bearing. This bearing type is engineered to absorb and conserve lubricating oil, effectively reducing wear and noise over its operational lifespan.

### Recommended Maintenance Practices:

- **Regular Dust Removal:** Periodically inspect the fan blades and frame for dust accumulation. Use compressed air or a soft brush to gently remove dust, ensuring unobstructed airflow.
- **Bearing Longevity:** The hydraulic bearing is sealed and does not require user lubrication. Avoid disassembling the fan, as this may compromise the bearing's integrity and lifespan.

## 6. TROUBLESHOOTING

If you encounter issues with your JAZZCOOLING DM-120 fans, consider the following troubleshooting steps:

- **Fan Not Spinning:**

- Ensure the fan is correctly connected to either a 3-pin motherboard header or a 4-pin Molex PSU connector.
- Verify that only one power connector (3-pin or 4-pin Molex) is used per fan. Connecting both simultaneously can prevent operation and cause damage.
- Check if the power supply unit (PSU) is functioning correctly and providing power to the connected header/cable.
- Inspect for any physical obstructions preventing the fan blades from rotating.

- **Excessive Noise:**

- Confirm that the fan is securely mounted with all screws tightened. Loose mounting can cause vibrations.
- Ensure the rubber pads are properly seated at each corner of the fan to absorb vibrations.
- Check for any cables or objects touching the fan blades.
- Clean any dust buildup on the fan blades, which can cause imbalance and increased noise.

- **Poor Cooling Performance:**

- Verify the fan's orientation. Ensure it is pushing air in the desired direction (e.g., intake for cool air, exhaust for hot air).
- Ensure there are no significant obstructions to airflow inside or outside the PC case.
- Clean any dust filters or vents in the PC case.

## 7. SPECIFICATIONS

Feature	Specification
Model	DM-120
Fan Size	120mm x 120mm x 25mm (4.72"L x 4.72"W x 0.98"H)
Fan Speed	1,200 RPM $\pm$ 10%
Noise Level	$\leq$ 24.18 dBA
Air Flow	43.28 CFM
Connector Type	3-pin (Motherboard) & 4-pin Molex (PSU)
Rated Voltage	12 Volts
Rated Current	0.14A $\pm$ 10%
Rated Wattage	1.44 Watts
Bearing Type	Hydraulic Bearing (Rifle Bearing)
Life Expectancy	Greater than 40,000 hours
Material	Plastic
Compatible Devices	Desktop PC Cases

## 8. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Specific warranty terms may vary by region and point of purchase.

## 9. OFFICIAL PRODUCT VIDEOS

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No official product videos were found in the provided data for this model.