

ARCTIC P12

ARCTIC P12 120mm Case Fan Instruction Manual

Model: P12 (ACFAN00135A)

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your ARCTIC P12 120mm Case Fans. Designed for optimal static pressure, these fans ensure efficient cooling for your computer components while maintaining quiet operation.

2. PRODUCT OVERVIEW

The ARCTIC P12 fan is engineered for high performance in environments with increased air resistance, such as on heatsinks and radiators. Key features include:

- **Optimized for Static Pressure:** Ensures highly efficient cooling even with restricted airflow.
- **High Quality Fluid Dynamic Bearing:** Reduces friction for greater efficiency and extended service life, offering quiet operation comparable to sleeve bearings.
- **Innovative Fan Blade Design:** Improves airflow and minimizes noise levels for effective ventilation.
- **Long Service Life:** The fluid dynamic bearing incorporates an oil capsule to prevent lubricant leakage, contributing to its durability.



Figure 1: ARCTIC P12 120mm Case Fans (5-Pack)

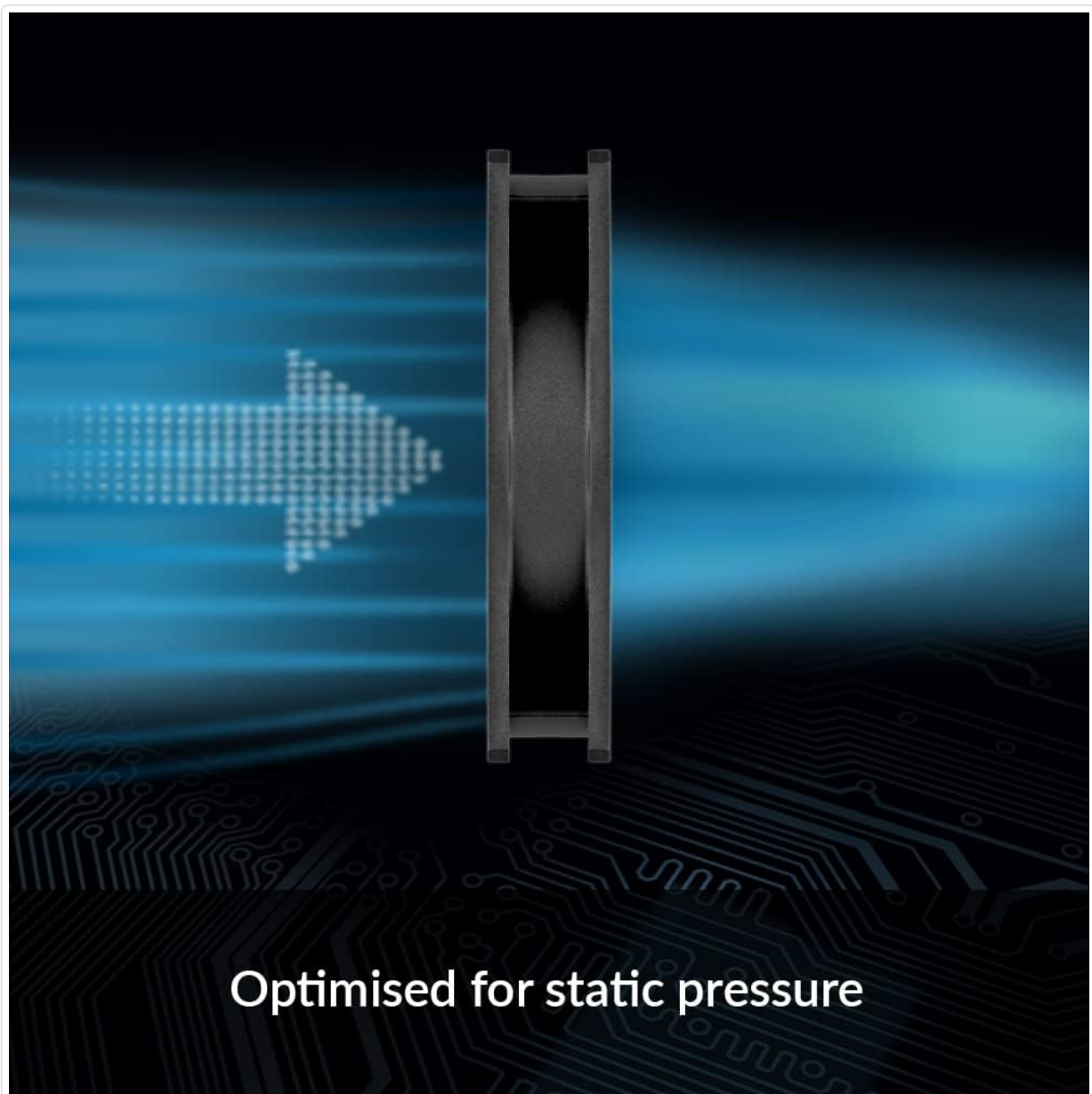


Figure 2: Optimized for Static Pressure - Illustrates how the fan's design directs airflow efficiently.

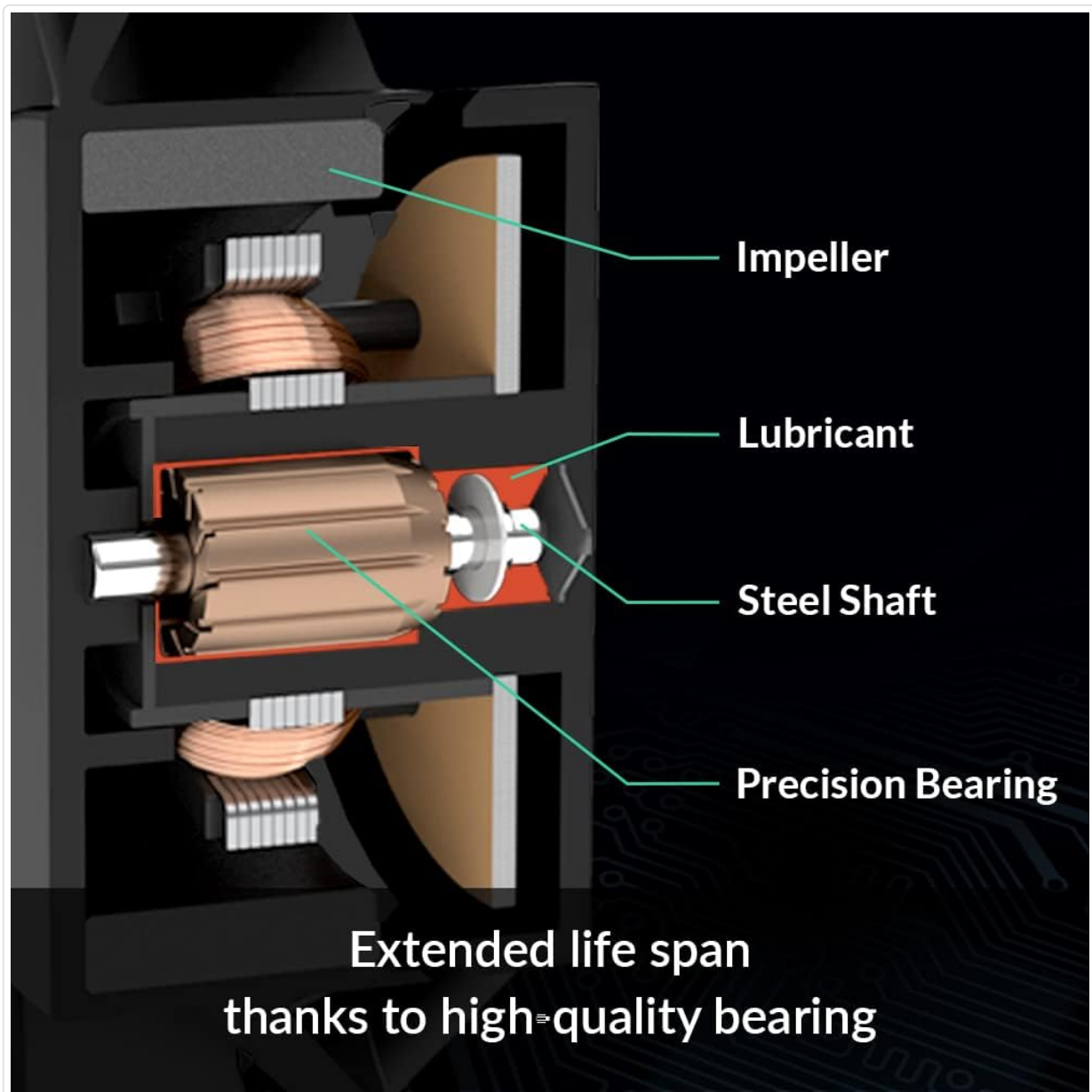


Figure 3: Extended Life Span - Diagram of the high-quality fluid dynamic bearing.

3. SAFETY INFORMATION

- Ensure your computer is powered off and unplugged before installation.
- Handle fans by the frame, avoiding contact with fan blades.
- Keep small parts (screws) away from children.
- Do not attempt to modify the fan or its components.

4. PACKAGE CONTENTS

- 5 x ARCTIC P12 120mm Case Fans
- Mounting Screws (4 per fan)



Figure 4: ARCTIC P12 Value Pack Box - Displays the packaging and product information.

5. SPECIFICATIONS

Feature	Detail
Fan Speed	1800 RPM
Airflow	56.3 CFM 95.7 m³/h
Noise Level	0.3 Sone
Static Pressure	2.2 mmH ₂ O
Power Connector	3-Pin
Voltage	12 Volts
Wattage	1.92 watts
Dimensions (LxWxH)	4.72" x 0.98" x 4.72" (120 x 25 x 120 mm)

Weight	1 pound (approx. 139g per fan)
Material	Metal
Model Number	ACFAN00135A

6. SETUP & INSTALLATION

6.1 Physical Installation

1. **Identify Airflow Direction:** Each fan has arrows on its frame indicating the direction of airflow and blade rotation. Ensure the fan is oriented correctly for intake or exhaust as desired for your system's airflow.
2. **Mount the Fan:** Position the fan in the desired location (e.g., case front, rear, top, or on a radiator). Secure the fan using the provided mounting screws. Tighten screws evenly to prevent warping.

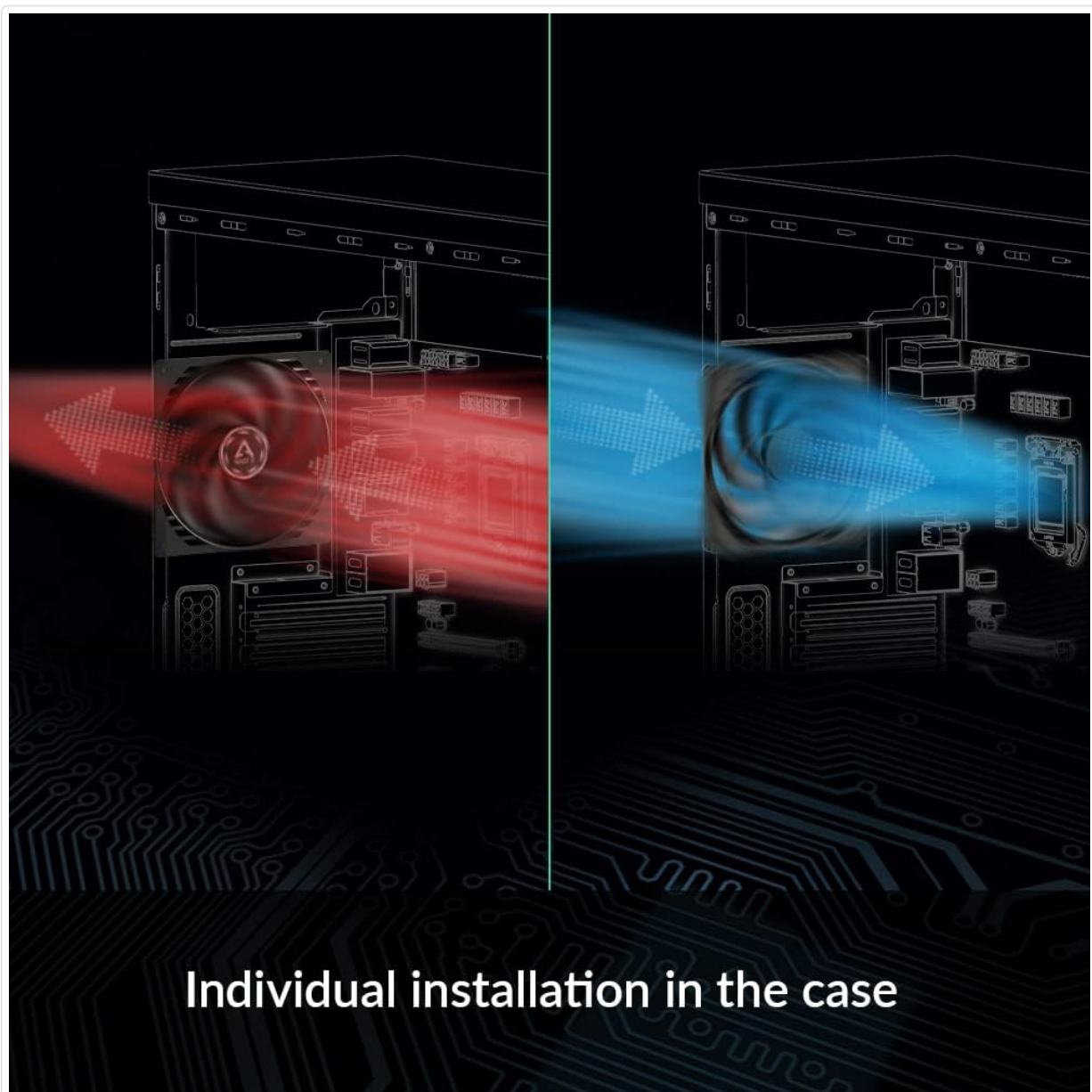


Figure 5: Individual Fan Installation in a PC Case - Demonstrates proper airflow direction for cooling.

6.2 Electrical Connection

3. **Connect to Motherboard:** Locate an available 3-pin fan header on your motherboard. Carefully align the 3-pin connector from the fan with the header and push it firmly into place.
4. **Power On:** Once all fans are securely mounted and connected, close your PC case, plug in the power cable,

and power on your system.

Your browser does not support the video tag.

Video 1: 120 mm Computer Case Fans - This video demonstrates the physical aspects and general installation of 120mm case fans.

7. OPERATION

The ARCTIC P12 fans operate at a fixed speed of 1800 RPM when connected to a standard 3-pin fan header. They are designed to provide consistent airflow and quiet performance without requiring additional software control.

8. MAINTENANCE

- **Cleaning:** Periodically inspect fans for dust accumulation. Use compressed air or a soft brush to gently remove dust from the fan blades and frame. Ensure the fan is not spinning during cleaning.
- **Inspection:** Check fan cables for any signs of wear or damage. Ensure connections remain secure.

9. TROUBLESHOOTING

- **Fan Not Spinning:**
 - Check if the 3-pin connector is securely plugged into the motherboard header.
 - Ensure the motherboard fan header is enabled in the BIOS/UEFI settings.
 - Test the fan on a different fan header or with a known working power source.
- **Unusual Noise:**
 - Verify that no cables are obstructing the fan blades.
 - Ensure the fan is securely mounted and not vibrating against the case.
 - Dust accumulation can cause noise; clean the fan thoroughly.

10. WARRANTY & SUPPORT

ARCTIC P12 fans come with a 6-year limited warranty. For detailed warranty information, technical support, or further assistance, please visit the official ARCTIC website:

[ARCTIC Official Product Page](#)

[ARCTIC Support Page](#)

Your browser does not support the video tag.

Video 2: ARCTIC P12 Series Overview - An official ARCTIC video providing a brief overview of the P12 fan series.

11. COMPLIANCE & DISPOSAL

This product complies with relevant safety and environmental regulations. Please dispose of electronic waste responsibly according to local regulations. Do not dispose of with household waste.