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ARCTIC P9 PWM PST

ARCTIC P9 PWM PST PC Fan Instruction Manual

Model: P9 PWM PST

INTRODUCTION

The ARCTIC P9 PWM PST is a 92mm PC case fan designed for efficient cooling, particularly in applications requiring high static pressure. This fan features a wide RPM range, PWM control for precise speed adjustment, and a 0dB mode for silent operation at low loads. Its high-quality bearing ensures an extended lifespan and quiet performance.



Image: The ARCTIC P9 PWM PST 92mm PC fan, showcasing its black frame and fan blades.

SETUP AND INSTALLATION

This section provides instructions for installing your ARCTIC P9 PWM PST fan into your computer case or onto a heatsink/radiator.

Connecting the Fan

The ARCTIC P9 PWM PST fan utilizes a 4-pin connector for power and PWM control. It also features a 4-pin socket for daisy-chaining additional fans, thanks to its PWM Sharing Technology (PST).

1. **Identify a suitable mounting location:** Determine where the fan will be installed (e.g., case fan mount, CPU heatsink, radiator). Ensure proper airflow direction for optimal cooling.
2. **Secure the fan:** Use the provided screws to firmly attach the fan to the desired mounting point. Avoid overtightening.
3. **Connect to motherboard:** Plug the fan's 4-pin connector into an available 4-pin fan header on your motherboard. If

daisy-chaining, connect the first fan to the motherboard, then connect subsequent PST-compatible fans to the 4-pin socket on the previous fan.



Image: The 4-pin PWM PST connector and socket, illustrating the daisy-chaining capability for multiple fans.

OPERATING INSTRUCTIONS

The ARCTIC P9 PWM PST fan offers flexible operation modes controlled via its 4-pin PWM connection.

PWM Control and RPM Range

- The fan speed can be precisely controlled via a Pulse Width Modulation (PWM) signal from your motherboard or fan controller.
- The fan operates within a wide RPM range of 200 to 3000 RPM, allowing for a balance between cooling performance and noise levels.
- **0dB Mode:** When the PWM signal is below 5%, the fan will stop spinning completely, providing a 0dB noise level for silent operation during low system loads. Above 5% PWM, the fan will spin up and adjust its speed infinitely within its

specified range.

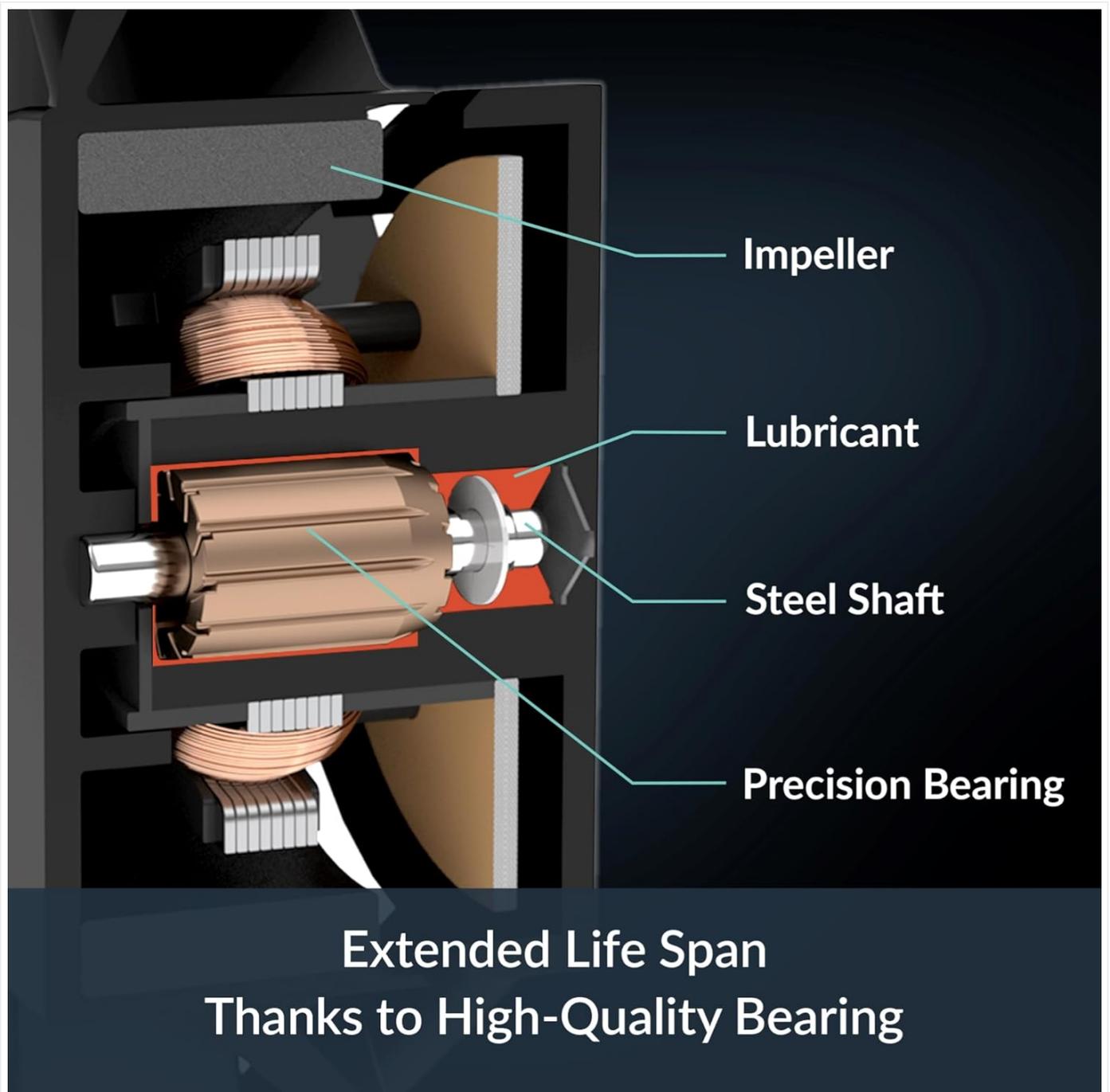
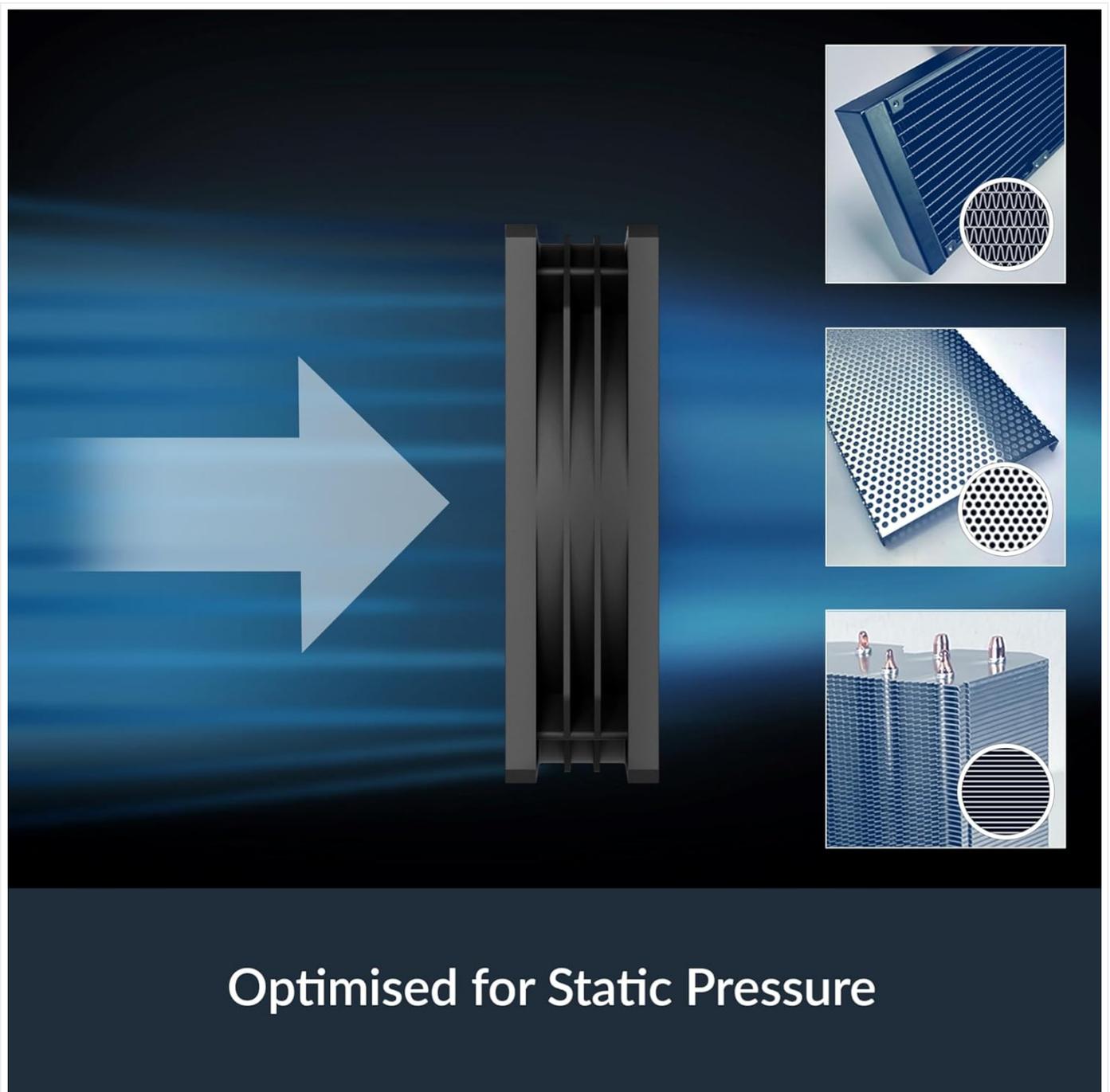


Image: Illustration of the 0dB mode, indicating the fan stops below 5% PWM signal for silent operation.

Optimized for Static Pressure

The fan's design is optimized for high static pressure, making it particularly effective for use on heatsinks and radiators where air resistance is higher. This ensures efficient heat dissipation even through dense fins.



Optimised for Static Pressure

Image: Diagram showing airflow through a fan optimized for static pressure, suitable for radiators and heatsinks.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your ARCTIC P9 PWM PST fan.

- **Dust Cleaning:** Periodically inspect the fan blades and housing for dust accumulation. Use compressed air or a soft brush to gently remove dust. Ensure the fan is powered off before cleaning.
- **Bearing Longevity:** The fan features a high-quality bearing with a combination of alloy and lubricant designed to reduce friction and prevent excessive heat build-up, contributing to an extended lifespan. No user maintenance is required for the bearing itself.

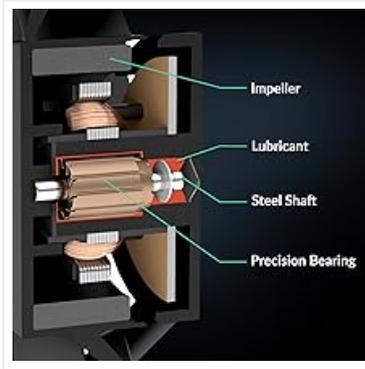


Image: Cross-section diagram of the fan's internal components, highlighting the impeller, lubricant, steel shaft, and precision bearing, which contribute to its extended lifespan.

TROUBLESHOOTING

If you encounter issues with your ARCTIC P9 PWM PST fan, refer to the following common troubleshooting steps:

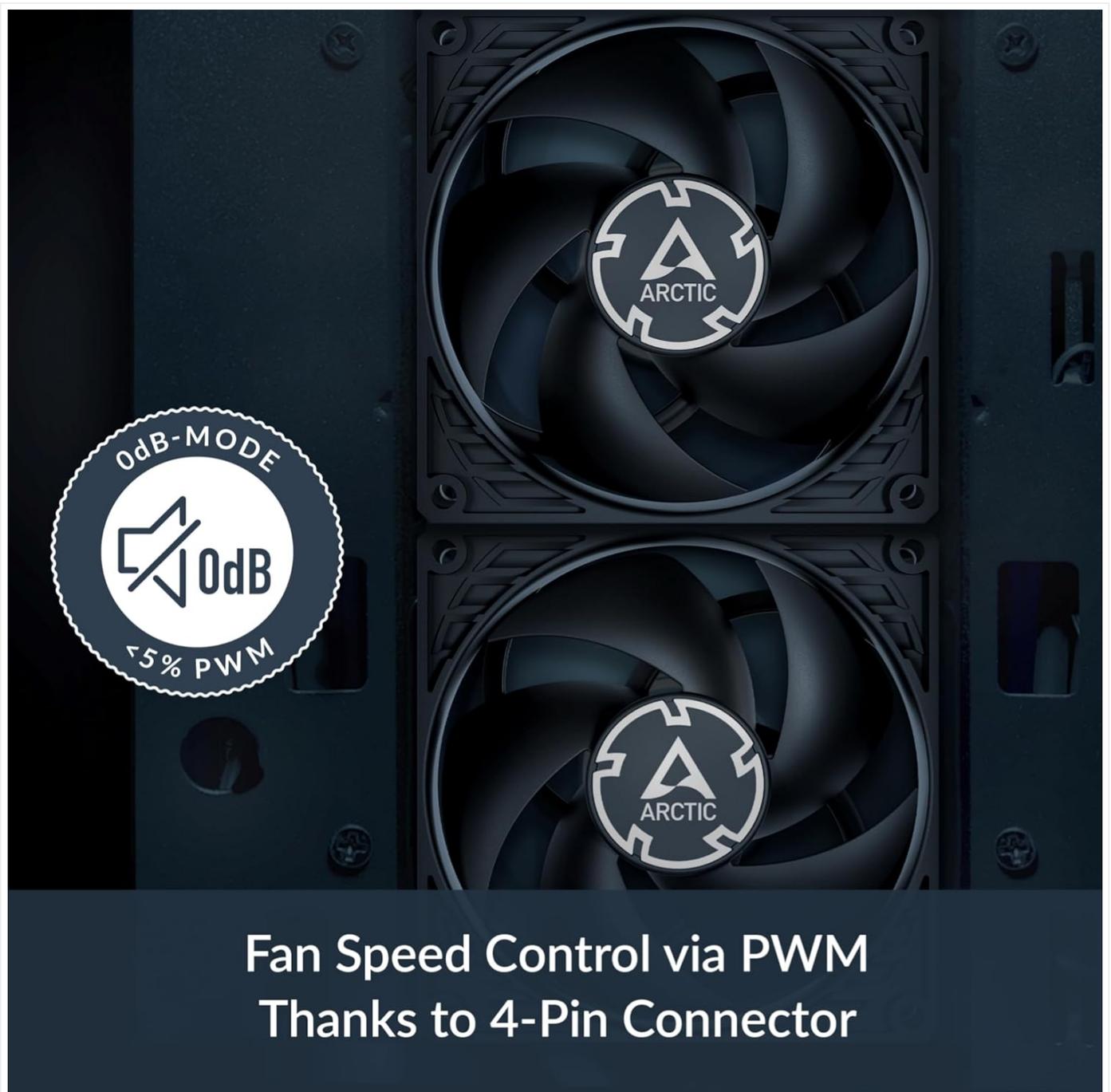
Problem	Possible Cause	Solution
Fan not spinning	<ul style="list-style-type: none"> No power PWM signal below 5% (0dB mode) Incorrect connection 	<ul style="list-style-type: none"> Check power cable connection to motherboard. Verify PWM settings in BIOS/UEFI or fan control software. Increase PWM duty cycle above 5%. Ensure the 4-pin connector is fully seated in the motherboard header.
Fan is too loud	<ul style="list-style-type: none"> High RPM setting Vibrations Dust accumulation 	<ul style="list-style-type: none"> Adjust fan speed settings in BIOS/UEFI or fan control software to a lower RPM. Ensure the fan is securely mounted and not vibrating against the case. Use anti-vibration mounts if available. Clean dust from fan blades and housing.
Poor cooling performance	<ul style="list-style-type: none"> Incorrect airflow direction Insufficient fan speed Obstruction 	<ul style="list-style-type: none"> Verify the fan is oriented to push air in the correct direction (e.g., into the case, out of the case, through a heatsink). Increase fan speed via PWM control. Ensure no cables or other components are blocking the fan's airflow path.

SPECIFICATIONS

Detailed technical specifications for the ARCTIC P9 PWM PST fan.

Feature	Value
Model	P9 PWM PST
Fan Size	92 mm
Fan Speed	200 - 3000 RPM (PWM controlled)
Airflow	38.83 CFM 65.97 m³/h
Static Pressure	3.12 mmH ₂ O

Feature	Value
Power Connector	4-pin fan connector + 4-pin socket (PST)
Voltage	12 Volts
Wattage	1.44 watts
Current	0.12 A
Bearing Type	High Quality Fluid Dynamic Bearing
Dimensions (L x W x H)	3.6" x 3.6" x 1" (92mm x 92mm x 25mm)
Weight	106 Grams
Material	Plastic



Fan Speed Control via PWM Thanks to 4-Pin Connector

Image: Visual representation of key technical data including fan speed, static pressure, airflow, current, and voltage.

WARRANTY INFORMATION

ARCTIC products are manufactured to high quality standards. For specific warranty terms and conditions applicable to your ARCTIC P9 PWM PST fan, please refer to the official ARCTIC website or the warranty card included with your product. Typically, ARCTIC offers a limited warranty against defects in materials and workmanship.

SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding your ARCTIC P9 PWM PST fan, please visit the official ARCTIC website:

[ARCTIC Official Website](#)

You may also find helpful resources, FAQs, and driver downloads on their support pages.

