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› [ARCTIC P14 PWM PST \(5 Pack\) - PC Fans, 140mm Case Fan with PWM Sharing Technology \(PST\), Pressure-optimised, Quiet Motor, Computer, Fan Speed: 200–1700 RPM \(0 RPM <5%\) - Black User Manual](#)

ARCTIC ACFAN00138A

ARCTIC P14 PWM PST (5 Pack) PC Fans

USER MANUAL

Introduction

This manual provides essential information for the installation, operation, and maintenance of your ARCTIC P14 PWM PST (5 Pack) PC Fans. These 140mm case fans are optimized for static pressure, featuring PWM Sharing Technology (PST) for efficient and quiet cooling, with a fan speed range of 200–1700 RPM, including a 0 RPM mode for silent operation at low loads.

The ARCTIC P14 PWM PST fans are designed to deliver high airflow and static pressure, making them ideal for use on heatsinks, radiators, and as case fans to improve overall system cooling. Their advanced motor technology ensures a long lifespan and minimal vibration.



Image: The ARCTIC P14 PWM PST 5-pack, showcasing the black fans with the ARCTIC logo.

Setup

Follow these steps for proper installation of your ARCTIC P14 PWM PST fans:

- Preparation:** Ensure your computer system is powered off and unplugged from the wall outlet before beginning installation.
- Mounting:** Securely mount the fans to your PC case, radiator, or heatsink using the provided screws. Ensure the airflow direction is appropriate for your cooling setup (intake or exhaust).
- Connection:** Connect the 4-pin PWM connector of the fan to an available 4-pin fan header on your motherboard.
- PWM Sharing Technology (PST):** Utilize the integrated PST connector to daisy-chain multiple P14 PWM PST fans together. This allows multiple fans to be controlled by a single PWM signal from your motherboard, simplifying cable management and ensuring synchronized fan speed control. Connect the main fan to the motherboard, then connect subsequent fans to the PST connector of the previous fan.



Image: Illustration of the PWM Sharing Technology (PST) connectors, allowing multiple fans to be daisy-chained from a single motherboard header.

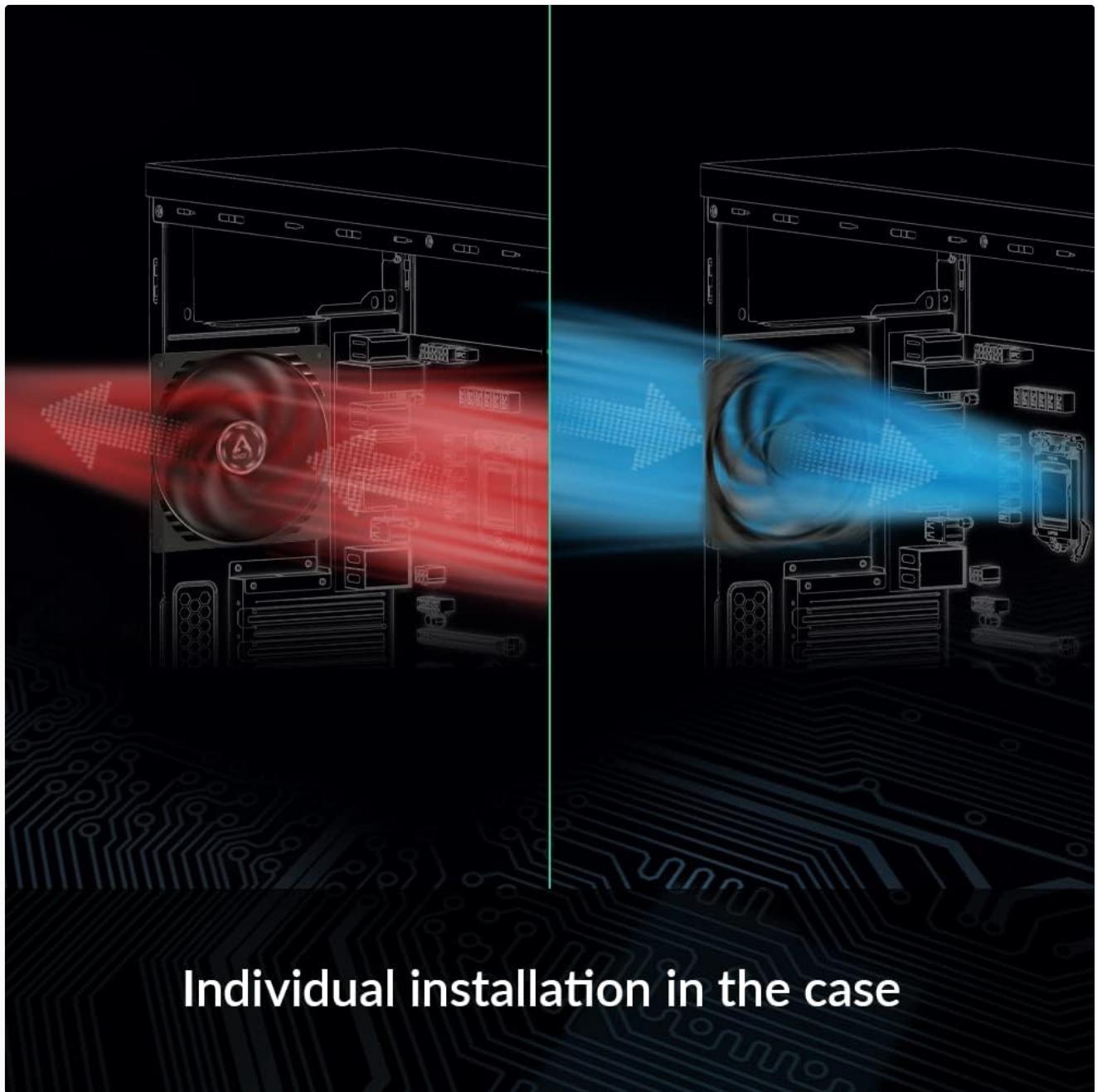


Image: Diagram showing typical fan installation within a PC case, illustrating airflow direction for both intake (blue arrow) and exhaust (red arrow).

Operating

The ARCTIC P14 PWM PST fans are designed for flexible operation, allowing you to balance cooling performance and noise levels through PWM control.

- **PWM Control:** The fan speed is regulated via Pulse Width Modulation (PWM) through the 4-pin connector. This allows your motherboard or fan controller to dynamically adjust the fan speed based on system temperature, providing optimal cooling when needed and quiet operation during lighter loads.
- **0 RPM Mode:** For absolute silence during idle or low-load scenarios, the P14 PWM PST supports a 0 RPM mode. When the PWM signal drops below a certain threshold (typically 5%), the fan will stop spinning completely, eliminating all fan noise. The fan will automatically resume operation when cooling is required.



Image: Visual representation of fan operation at different PWM percentages: 100% PWM (Full Speed, 1700 rpm), 50% PWM (Half Speed, 850 rpm), and <5% PWM (0dB-Mode, Absolute Standstill).

Your browser does not support the video tag.

Video: A short overview of the ARCTIC P14 Series fan, demonstrating its design and quiet operation. This video highlights the fan's aesthetic and rotational movement.

Maintenance

To ensure optimal performance and longevity of your ARCTIC P14 PWM PST fans, periodic maintenance is recommended:

- **Dust Removal:** Regularly inspect the fan blades and frame for dust accumulation. Use compressed air or a soft brush to gently remove dust. Avoid using excessive force or liquid cleaners directly on the fan components.
- **Bearing Longevity:** The P14 PWM PST fans feature a high-quality fluid dynamic bearing with a new ARCTIC motor design, which significantly extends their lifespan. A lower motor temperature, achieved through efficient design, roughly doubles the life span of a fan. No user lubrication is required.

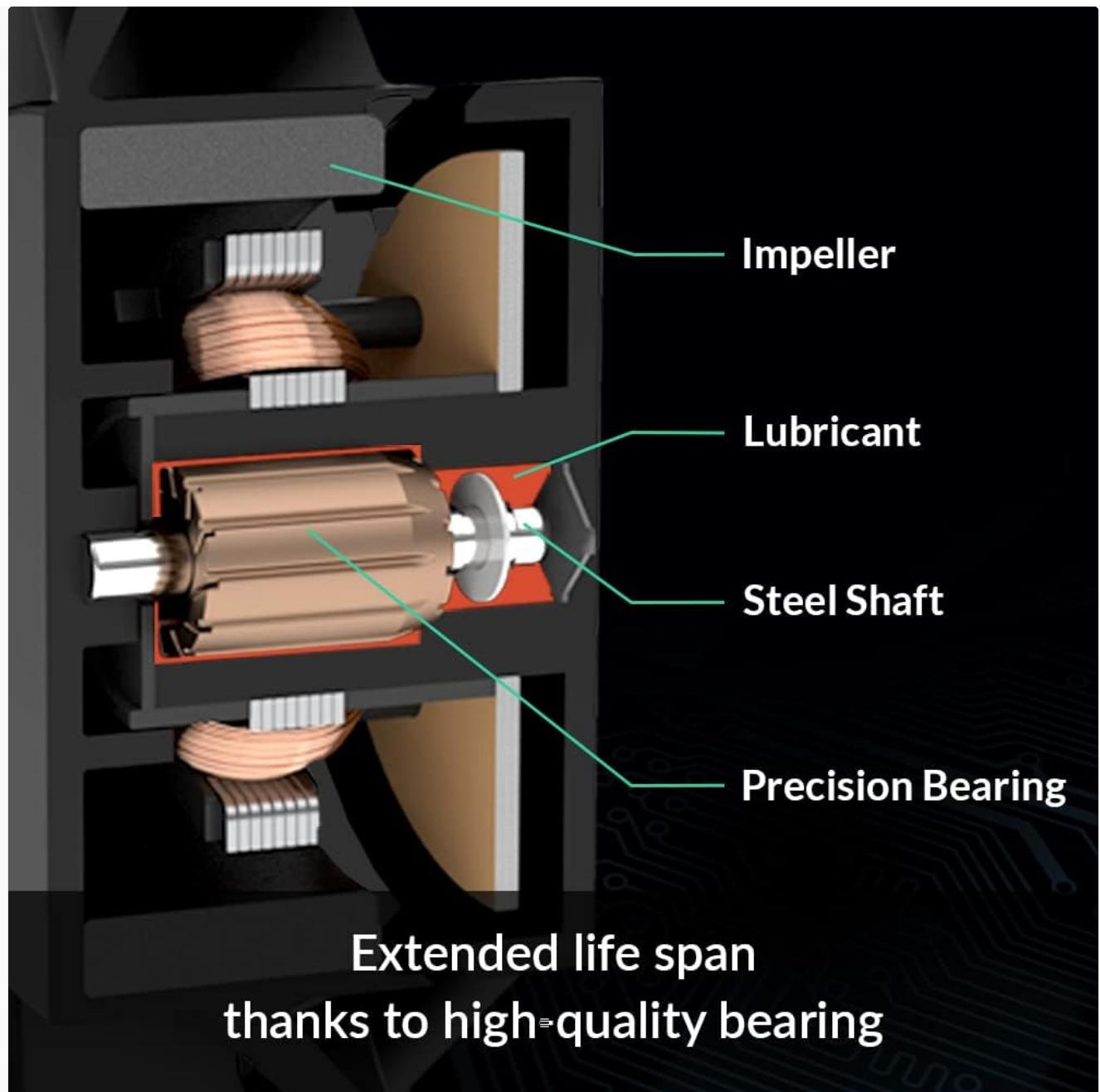


Image: Cross-section diagram illustrating the internal components of the fan, including the impeller, lubricant, steel shaft, and precision bearing, highlighting the extended lifespan due to high-quality bearing.

Troubleshooting

If you encounter issues with your ARCTIC P14 PWM PST fans, consider the following common solutions:

- **Fan Not Spinning:**

- Check all cable connections to ensure they are securely plugged into the motherboard fan headers.
- Verify that the fan header in your motherboard's BIOS/UEFI settings is enabled and configured correctly (e.g., not set to 0 RPM mode if you expect it to spin).
- If daisy-chaining, ensure the primary fan is correctly connected to the motherboard.

- **Excessive Noise:**

- Ensure the fan is securely mounted and not vibrating against the case or other components.
- Check for any cables or obstructions touching the fan blades.
- Adjust fan speed settings in your motherboard's BIOS/UEFI or fan control software to a lower RPM. The

P14 PWM PST is designed for quiet operation, especially at lower speeds.

- **Insufficient Cooling:**

- Verify that the fans are oriented correctly for optimal airflow (e.g., intake fans pulling cool air in, exhaust fans pushing hot air out).
- Ensure there are no significant dust buildups on the fan blades or within the case that could impede airflow.
- Increase fan speed settings in your motherboard's BIOS/UEFI or fan control software.

Specifications

Feature	Specification
Model Number	ACFAN00138A
Fan Size	140mm
Fan Speed	200–1700 RPM (0 RPM <5%)
Airflow	72.8 CFM 123.76 m ³ /h
Noise Level	0.3 Sone (approx. 3 dB)
Static Pressure	2.40 mmH ₂ O
Power Connector	4-Pin PWM
Voltage	12V
Wattage	1.44W
Bearing Type	Fluid Dynamic Bearing
Dimensions (LxWxH)	140 x 140 x 27 mm (5.51" x 5.51" x 1.06")
Weight	194g per fan
Material	Polycarbonate

Item name	P14 PWM PST (Black) - 5 pack sticker for brown box
Item code	PKSTI00604J
Dimensions	160 x 65 mm
Material	80 g Double-sides coated sticker (雙面貼紙)
Color	2C (PMS 540C, PMS 306C)
Finishing	Matte coating (啞油)
Qty / Remarks	5 fans / brown box sticker

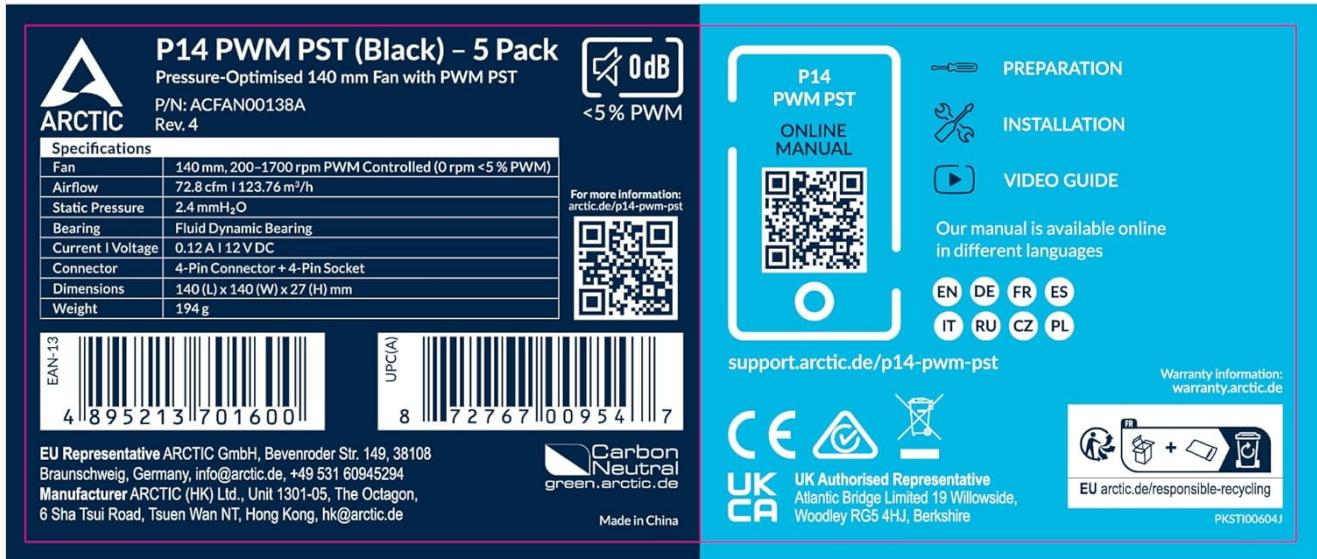


Image: Product label for the ARCTIC P14 PWM PST, showing detailed specifications and regulatory information.

Warranty and Support

ARCTIC products are manufactured to the highest quality standards. For detailed warranty information, please refer to the official ARCTIC website or the warranty card included with your product.

For further assistance, technical support, or to access the online manual in various languages, please visit the official ARCTIC support page:

- ARCTIC Support Page: support.arctic.de/p14-pwm-pst
- Official Product Page: arctic.de/p14-pwm-pst
- User Manual (PDF): [Download PDF Manual](#)

Please retain your proof of purchase for warranty claims.

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Related Documents - ACFAN00138A

	<p>ARCTIC P14 PWM PST CO Online Manual</p> <p>Access the online manual for the ARCTIC P14 PWM PST CO PC fan. Find information on preparation, installation, and video guides. Manual available in multiple languages.</p>
	<p>ARCTIC P12 PWM PST CO Online Manual</p> <p>Comprehensive online manual for the ARCTIC P12 PWM PST CO PC fan, offering preparation guides, installation instructions, and video resources in multiple languages.</p>

	<p>ARCTIC P12 Slim PWM PST Online Manual</p> <p>Access the online manual for the ARCTIC P12 Slim PWM PST fan, including preparation, installation, and video guides. Available in multiple languages.</p>
	<p>ARCTIC P12 Pro PST 120 mm PWM Fan with Cable Splitter - Technical Specifications</p> <p>Detailed technical specifications for the ARCTIC P12 Pro PST, a 120 mm PWM computer fan featuring a cable splitter, fluid dynamic bearing, and a 6-year warranty. Includes performance curves, dimensions, and shipping information for various pack types.</p>
	<p>ARCTIC Liquid Freezer III 280 CPU Water Cooler - Technical Specifications</p> <p>Comprehensive technical specifications, performance data, and dimensional details for the ARCTIC Liquid Freezer III 280 All-in-One CPU Water Cooler. Covers compatibility, pump and fan performance, and shipping information.</p>
	<p>ARCTIC Freezer 36 CO CPU Cooler - Online Manual and Installation Guide</p> <p>Comprehensive online manual and installation guide for the ARCTIC Freezer 36 CO CPU Cooler. Learn about preparation, installation, and access video guides. Available in multiple languages.</p>