

ARCTIC ACFAN00307A

ARCTIC P12 Pro PST 120mm PWM Fan 5-Pack Instruction Manual

Model: ACFAN00307A

Brand: ARCTIC

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ARCTIC P12 Pro PST 120mm PWM Fan 5-Pack. These fans are designed for high static pressure applications, featuring a wide PWM speed range, a fluid dynamic bearing, and Power Sharing Technology (PST) for simplified connectivity. Please read this manual carefully before proceeding with installation.



Image: The ARCTIC P12 Pro PST 120mm PWM Fan 5-Pack, showcasing five black fans with the ARCTIC logo.

PACKAGE CONTENTS

Verify that all items are present in your package:

- 5 x ARCTIC P12 Pro PWM PST 120mm Fans (Black)
- Mounting Screws (20 pieces)

SETUP

1. Mounting the Fans

The ARCTIC P12 Pro PST fans can be mounted in various locations within a computer chassis or on radiators. Ensure proper airflow direction for optimal cooling. The fan blades typically indicate the direction of airflow, and an arrow on the fan frame often indicates the direction of rotation and airflow.

1. Identify the desired mounting location (e.g., case intake/exhaust, CPU cooler radiator, GPU radiator).
2. Position the fan with the desired airflow direction.
3. Secure the fan using the provided mounting screws. Tighten screws evenly to prevent warping.



Efficient Performance under High Air Resistance

Image: Multiple ARCTIC P12 Pro PST fans installed within a computer case, demonstrating typical mounting positions for cooling components.

2. Connecting the Fans (PWM PST)

The P12 Pro PST fans feature a 4-pin PWM connector and Power Sharing Technology (PST), allowing multiple fans to be daisy-chained from a single motherboard fan header.

1. Locate an available 4-pin PWM fan header on your motherboard.
2. Connect the main 4-pin PWM cable from the first fan to the motherboard header.
3. For additional fans, connect the 4-pin PST connector from the first fan to the 4-pin PWM input of the second fan. Repeat this process for subsequent fans. This allows all connected fans to be controlled by a single PWM signal from the motherboard.
4. Ensure all connections are secure.



Easy Daisy-Chaining with PST – No Extra Cables Needed

Image: Three ARCTIC P12 Pro PST fans connected in a daisy-chain configuration, illustrating the Power Sharing Technology (PST) for simplified cable management.

OPERATING INSTRUCTIONS

The ARCTIC P12 Pro PST fans are controlled via a 4-pin PWM signal, offering precise speed adjustment and an intelligent 0 RPM mode.

- **PWM Control:** The fan speed can be dynamically adjusted by your motherboard or fan controller based on temperature readings. The speed range is 600 to 3000 RPM.
- **0 RPM Mode:** When the PWM signal drops below 5%, the fan will stop spinning completely. This feature allows for silent operation during low-load scenarios, conserving power and reducing noise. The fan will automatically resume operation when the PWM signal increases.
- **Airflow Direction:** Ensure the fans are oriented to provide the desired airflow (intake or exhaust) for your system's cooling strategy.

MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your fans.

- **Dust Removal:** Periodically 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 liquids.

- **Cable Management:** Ensure fan cables are neatly routed and secured to prevent interference with moving parts or other components.

TROUBLESHOOTING

If you encounter issues with your ARCTIC P12 Pro PST fans, consider the following:

- **Fan Not Spinning:**
 - Check all 4-pin PWM connections to the motherboard and between daisy-chained fans.
 - Verify that the motherboard's BIOS/UEFI settings or fan control software are configured correctly and providing a sufficient PWM signal (above 5% for operation).
 - Ensure no cables or obstructions are preventing the fan blades from rotating.
- **Excessive Noise:**
 - Check for loose mounting screws; tighten them evenly.
 - Ensure no cables are touching the fan blades.
 - Adjust fan speed settings in your motherboard's BIOS/UEFI or fan control software to a lower RPM if noise is a concern at higher speeds.
 - Inspect for any foreign objects caught in the fan blades.

SPECIFICATIONS

Detailed technical specifications for the ARCTIC P12 Pro PST 120mm PWM Fan:

Feature	Specification
Product Dimensions	4.7"L x 4.7"W x 1"H (120 x 120 x 25 mm)
Item Model Number	ACFAN00307A
Brand	ARCTIC
Power Connector Type	4-Pin PWM
Voltage	12 Volts
Wattage	3.96 watts
Cooling Method	Air
Compatible Devices	Desktop Computers
Material	Plastic
Maximum Rotational Speed	3000 RPM
Air Flow Capacity	77 Cubic Feet Per Minute (CFM) / 131 m³/h
Static Pressure	6.9 mmH₂O
Bearing Type	Fluid Dynamic Bearing (FDB)



Fan Speed
600–3000 rpm



Static Pressure
6.9 mmH₂O



Airflow
77 cfm | 131 m³/h

Image: Visual representation of key fan specifications including fan speed (600-3000 RPM), static pressure (6.9 mmH₂O), and airflow (77 CFM).

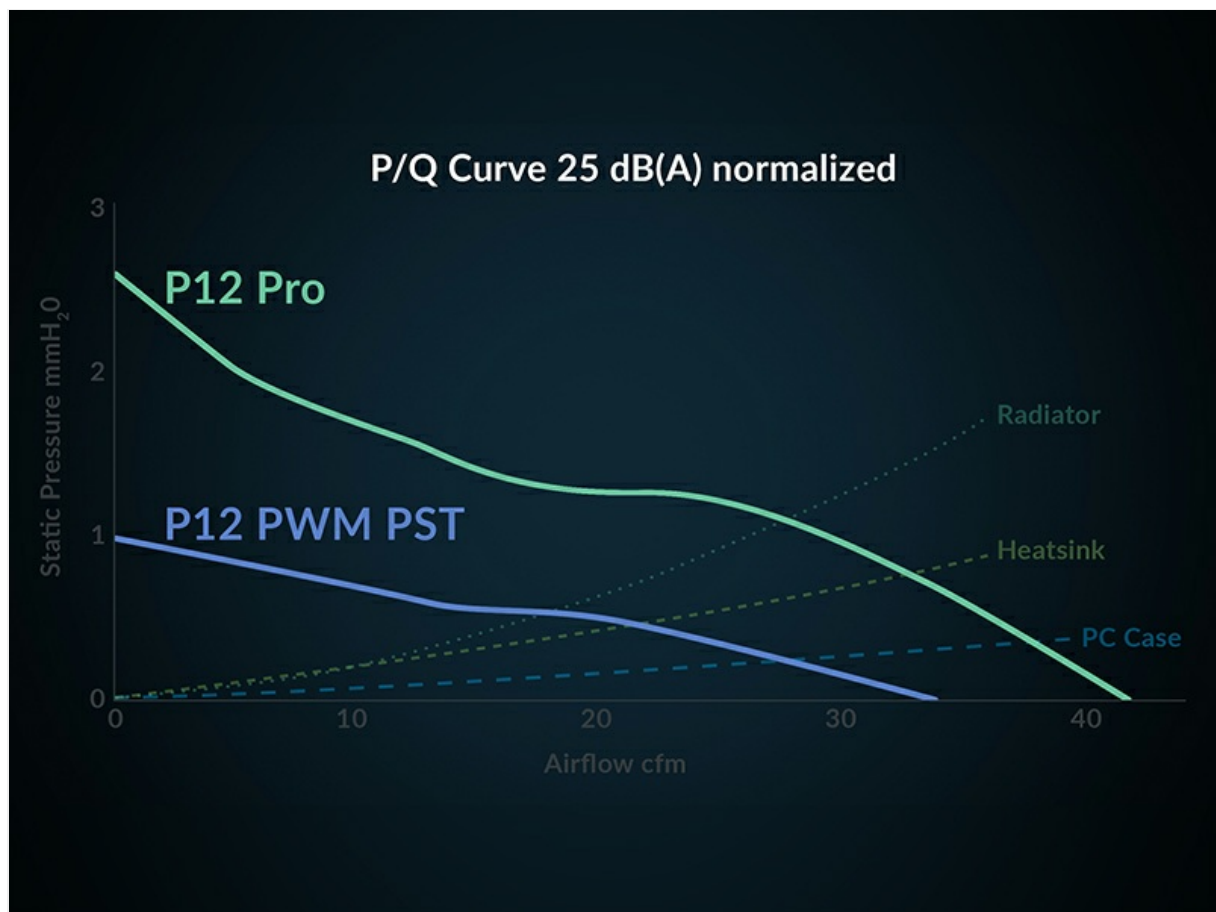


Image: A P/Q (Pressure/Flow) curve graph illustrating the performance characteristics of the P12 Pro fan compared to the P12 PWM PST, showing static pressure against airflow.

WARRANTY INFORMATION

ARCTIC products are covered by a manufacturer's warranty. For specific warranty terms, conditions, and duration, please refer to the official ARCTIC website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

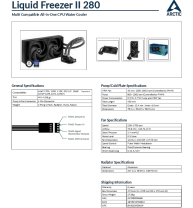
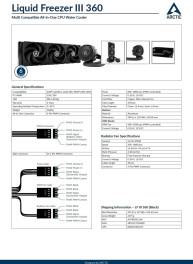
SUPPORT

For further assistance, technical support, or frequently asked questions, please visit the official ARCTIC support website:

[ARCTIC Official Website](https://www.arctic-cooling.com/en/support)

Related Documents - ACFAN00307A

	ARCTIC P12 Pro PST 120 mm PWM Fan with Cable Splitter - Technical Specifications 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.
	ARCTIC P12 PWM PST CO Online Manual Comprehensive online manual for the ARCTIC P12 PWM PST CO PC fan, offering preparation guides, installation instructions, and video resources in multiple languages.

	ARCTIC P12 Slim PWM PST Online Manual Access the online manual for the ARCTIC P12 Slim PWM PST fan, including preparation, installation, and video guides. Available in multiple languages.
	ARCTIC P14 PWM PST CO Online Manual 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.
	ARCTIC Liquid Freezer II 280 CPU Water Cooler Specifications and Features Detailed specifications, features, and shipping information for the ARCTIC Liquid Freezer II 280, a multi-compatible all-in-one CPU water cooler. Includes technical data on pump, fans, radiator, and compatibility.
	ARCTIC Liquid Freezer III 360 All-in-One CPU Water Cooler Specifications and Features Detailed specifications, features, and dimensions for the ARCTIC Liquid Freezer III 360, a multi-compatible all-in-one CPU water cooler. Includes information on pump, radiator, fans, compatibility, and shipping.

Documents - ARCTIC – ACFAN00307A



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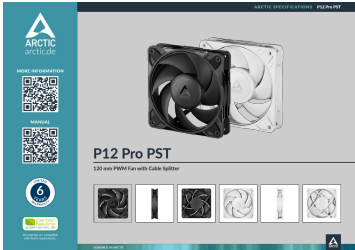


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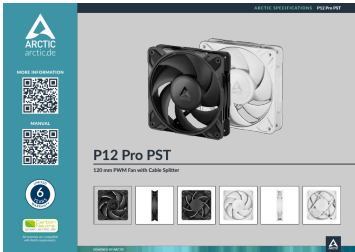
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[ARCTIC P12 Pro PST 120 mm PWM Fan with Cable Splitter - Technical Specifications](#)

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.
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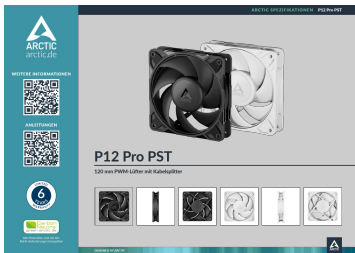


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