



BioniX P120

Pressure-optimised 120 mm Gaming Fan
with PWM PST



- Optimised for static pressure
- Ideal choice on heatsinks, radiators and (partly-) covered case vents
- Broad RPM range for highest performance and low noise level
- Push- or pull-configuration
- PWM Sharing Technology (PST) regulates fan speed synchronously
- Newly developed, very quiet motor
- Extended life span
- 0 dB mode: silent passive mode when PWM signal is below 5 %
- Available in multiple distinct colors



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Pressure-optimised 120 mm Gaming Fan with PWM PST

The **BioniX P120** fan features completely redesigned fan blades and is optimised for high static pressure. Thus, the **BioniX P120** is especially effective when used on heatsinks and with higher air resistance.

The wide RPM range from 200 to 2100 RPM can be regulated seamlessly and synchronously with other fans thanks to ARCTIC's PWM Sharing Technology (PST).

The newly developed motor with a low coil temperature significantly increases the life span of the fan. Therefore we have extended the warranty to 10 years.



Specifications

Fan	120 mm, 200 – 2100 RPM (Controlled by PWM), 0 dB fan mode below 5 % PWM
Airflow	67.56 CFM/114.79 m³/h (@ 2100 RPM)
Static Pressure	2.75 mm H ₂ O (@ 2100 RPM)
Bearing	Fluid Dynamic Bearing
Noise Level	0.45 Sone (@ 2100 RPM)
Current / Voltage	0.13 A / 12 V DC
Connector	4-pin Connector + 4-pin Socket
Dimensions	120 (L) x 120 (W) x 27 (H) mm
Weight	140 g



Maximum Quietness, Minimum Vibration

Even at low speeds the operating sound of the new ARCTIC motor is barely noticeable.

Due to a sinus-magnetizing the new motor only creates about 5 % of the commutator oscillations of a regular DC-motor.

Consequently, there is no need for rubber spacers due to the steady and smooth torque of the new motor.

Fan with newly developed ARCTIC motor

5 % vibration from commutation

Fan with regular motor and anti-vibration rubbers

5 % vibration from commutation

Fan with regular motor without vibration absorption

5 % vibration from commutation

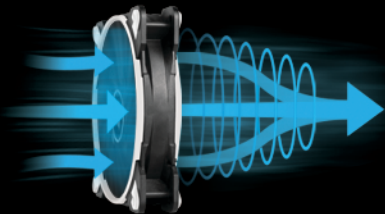
Noise Level

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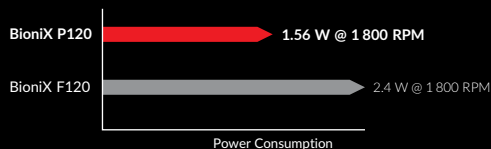
Optimised for Static Pressure

During the development of the new BioniX P120, special emphasis was placed on a focused airstream and thus a high static pressure. The fan guarantees extremely efficient cooling, even with increased air resistance. Therefore, the BioniX P120 is particularly suitable for use on heatsinks and radiators.



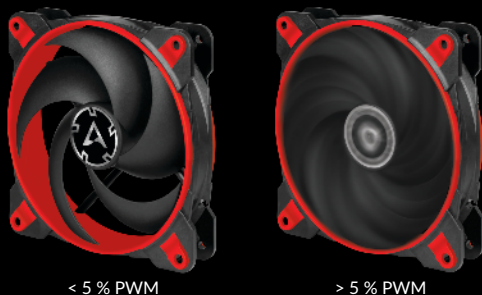
More Efficient Technology

The motor is powered by a Neodym-Iron-Boron-Magnet ring of the newest generation, which allows the new BioniX P120 to run much more efficiently than its predecessors. This saves energy and lowers the coil temperature without compromising the performance.



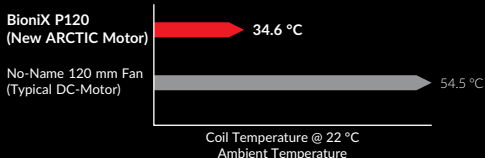
0 dB Mode

The BioniX P120 is able to switch into silent passive mode when PWM signal is below 5 % due to its new motor. This allows working at your PC in complete silence without any unwanted noise.



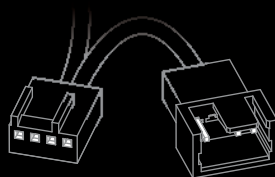
Extended Life Span

A 10 °C lower motor temperature roughly doubles the life span of a fan. The new ARCTIC motor has a four times longer service life through its low coil temperature. Consequently, we have extended the warranty to 10 years.



200 to 2100 RPM regulated via PWM

With a wide range of regulation and the PWM Sharing Technology (PST), the BioniX P120 fan speed can be controlled synchronously with all your other fans together. This keeps noise at a minimum while guaranteeing maximum cooling performance when needed.



High Quality Bearing

Thanks to an alloy/lubricant combination developed in Germany, friction within the bearing is reduced and greater efficiency is achieved. As a result, there is less heat development as well as less bearing noise, which means you can enjoy a longer service life from your fan.

