



P14 PWM

Pressure-optimised 140 mm Fan with PWM

- Optimised for static pressure
- Ideal choice on heatsinks, radiators and (partly-) covered case vents
- Push- or pull-configuration
- PWM signal adjusts fan speed
- Newly developed, very quiet motor
- Extended life span



P14 PWM

Pressure-optimised 140 mm Fan with PWM

The **P14 PWM** features completely redesigned fan blades and is optimised for high static pressure.

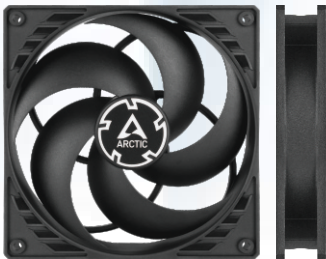
Thanks to this, it is especially effective when used on heatsinks and in situations with higher air resistance.

The wide RPM range from 200 to 1700 RPM can be regulated steplessly via PWM.

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	140 mm, 200–1700 RPM (Controlled by PWM)
Airflow	72.8 CFM/123.76 m³/h (@ 1700 RPM)
Static Pressure	2.4 mm H ₂ O (@ 1700 RPM)
Bearing	Fluid Dynamic Bearing
Noise Level	0.3 Sone (@ 1700 RPM)
Voltage/Current	0.12 A / 12 V DC
Connector	4-pin Connector
Dimensions	140 (L) x 140 (W) x 27 (H) mm
Weight	194 g

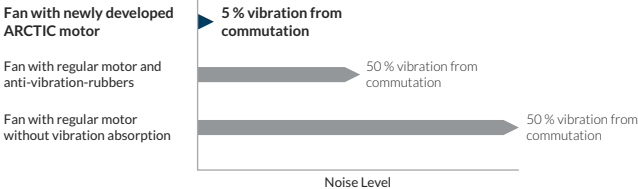


Maximum Quietness, Minimum Vibration

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 vibration from commutation of a regular DC-motor without filter.

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



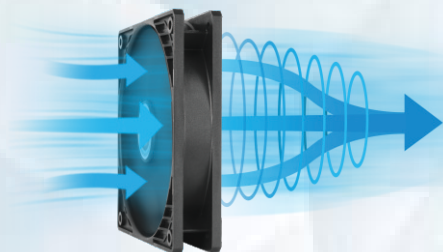
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Optimised for Static Pressure

During the development of the new P14 PWM, 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 P14 PWM is particularly suitable for use on heatsinks and radiators.



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.



P14 PWM (New ARCTIC Motor)

No-Name 140mm Fan (Typical DC-Motor)

35.3 °C

54.5 °C

Coil Temperature @ 22 °C
Ambient Temperature

More Efficient Technology

The motor is powered by a Neodym-Iron-Boron-Magnet ring of the newest generation, which allows the new P14 PWM to run much more efficiently than its predecessors. This saves energy and lowers the coil temperature without compromising the performance.

P14 PWM 0.12 A @ 1700 RPM

F14 PWM 0.3 A @ 1350 RPM

Power Consumption

200 to 1700 RPM regulated via PWM

Thanks to the 4-pin connector, the RPM can be regulated in a broad spectrum via PWM.

In this way, noise is kept at a minimum while maximum cooling performance is guaranteed 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.

