alpha**cool**

Alphacool Core 140mm fan PWM 2500rpm (140x140x25mm)

Alphacool article number: 24846

Quick Info

Alphacool's Core 140mm is a quiet and efficient fan with a wide control range up to 2500 rpm. The PWM controllable fan is not only suitable as a fan on CPU coolers or radiators. Due to its excellent performance values (throughput & static pressure), it can also be used as a case fan. The double-bearing fan axis is smooth running and enables a long service life as well as quiet operation. If you are looking for a powerful fan without aRGB illumination, you will find it in Alpacool's Core 140mm model!

- Double bearing for quiet and efficient running
- High air flow & static pressure
- Wide, via PWM controllable speed range

Scope of delivery

1x Alphacool Core 140mm Fan PWM 2500 (140x140x25mm), black

Technical data

Dimension (L x W x H)	140 x 140 x 25mm
Material	synthetic material (PBT UL94V-0)
Bearing Type	Two Ball Bearing
Rated Voltage	DC 12V
Operating Voltage	DC 7-14V
Start-up Voltage	7V
Rated Current	0.4 (Max: 0.5) A
Rated Power	4.8 (Max: 6.00) W
Rated Speed	0 - 2500 rpm ±10%
Max. Air Flow	115.56 CFM
Max. Static Pressure	3.96 mm/H2O
Noise level	43.3 (Max: 45.0) dBA
Life Expectance	70000 h at 40 degrees celcius
Connection	4-Pin PWM
Speed Control Mode	via PWM
Operating Temperature	-10~+70 degrees celcius
Other Features	Tachometer Output, Auto Start, Soft Start, Waterproof Level IP22

Download links

Product pictures	24846_Alphacool_Core_140mm_fan_PWM_2500rpm_(140x140x25mm)_pics.zip

Packaging dimensions per unit

L x W x H	150 x 150 x 35 mm
Weight	200 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197135900
Customs code	84145915000
Guarantee	3 years

Article text

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Connections

The fan is controlled via a 4-pin PWM connector. The cable is 40cm long. This allows the fan to be connected directly to the motherboard or a dedicated controller without the use of additional adapter cables or extensions.
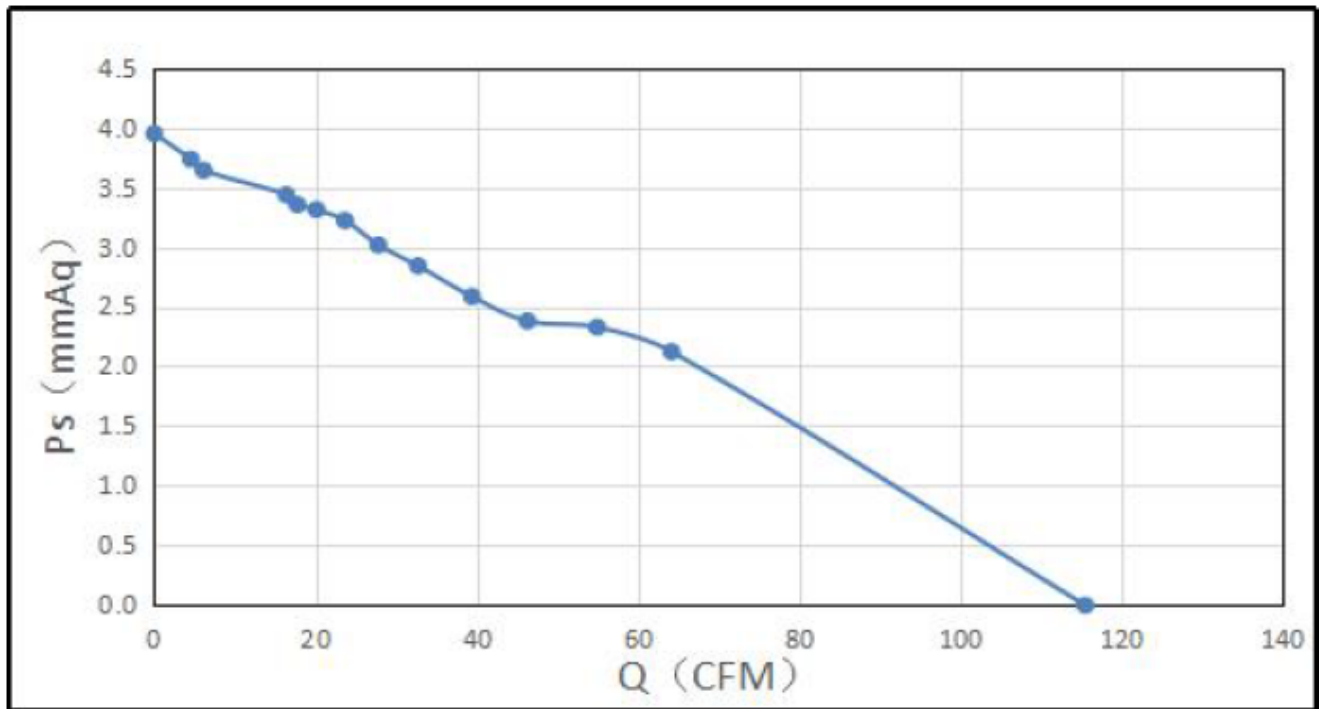
Control range

The fan can be controlled from 0 to 2500 rpm via the 4-pin PWM connector. At maximum speed, it allows an airflow of 115.56 CFM combined with a high static pressure of 3.96 mm/H2O. This makes the fan perfect for mounting on radiators of a water cooling system or for ventilating a case.

Drawing (1)

5. P-Q Characteristic curve test:

Test conditions and methods	
Testing Method : Constant Voltage	
Barometric Pressure: 752.4 mmHg	At Rated Voltage
Relative Humidity: 66.825%	Temperature: 25° C
test data : (Max Ps) :3.96mmAq (Max Flow Rate) :115.56CFM	

P-Q Curve

Drawing (2)