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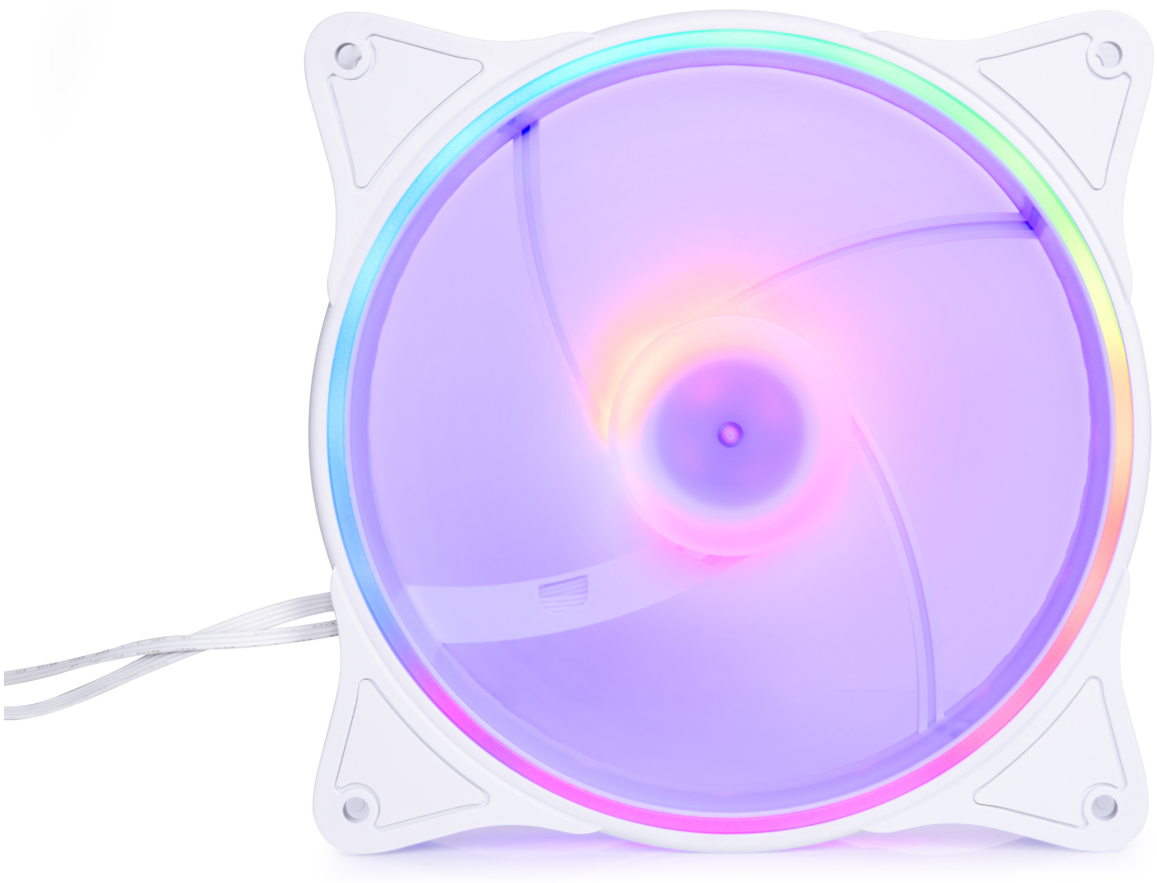
Alphacool Rise Aurora 140mm Fan White (140x140x25mm)

Alphacool article number: 24851



Quick Info

The Alphacool Rise Aurora fan offers a wide range of control as well as superior Digital RGB LED lighting. The individually controllable 5V aRGB LEDs paired with the fan's special design can create some unique effects whilst offering performance.

- High static pressure (2.20 mm/H2O)
- Decoupled frame & tear-off edges on fan blades for noise reduction
- Brilliant aRGB lighting on frame & fan hub

Scope of delivery

1x Alphacool Rise Aurora 140mm Fan, white

Technical data fan

L x W x H	140 x 140 x 25 mm
RPM	0-2000 rpm (±10 %)
Bearing	Sleeve Bearing
Connection	4-Pin PWM
Length PWM cable	40 cm
Voltage	12 V DC
Power consumption	6.6 W (max)
Current consumption	0.50 A (0.55 A max)
Static pressure	2.20 mmH_2O
Max. air flow	154.1 m^3/h
Noise	max. 38.4 dB(A)
MTBF	30 000 h
Speedometer signal	yes
Auto-Restart	yes
Weight	206 g
Color	white

Technical data aRGB illumination

LED type	5 V aRGB
Connection	3-Pin JST
Cable length	50 cm (Splitter after 40 cm)
Max. current consumption LEDs	3.5 W
LED quantity	Frame: 16 / Hub: 8

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Product pictures	24851_Alphacool_Rise_Aurora_140mm_Fan_White_(140x140x25mm)_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_24851.pdf

Packaging dimensions per unit

L x W x H	155 x 145 x 30 mm
Weight	236 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197135832
Customs code	84145915000
Guarantee	3 years

Article text

The Alphacool Rise Aurora fan offers a wide range of control as well as superior Digital RGB LED lighting. The individually controllable 5V aRGB LEDs paired with the fan's special design can create some unique effects whilst offering performance.

Brilliant illumination

There are 24 digitally addressable 5V RGB LEDs built into the frame and hub that illuminate the entire fan. This creates a unique illumination that looks very impressive. Thanks to the recessed light diffusers, the light is distributed evenly, and you will not see sporadic uneven lighting.

Wide control range and silent

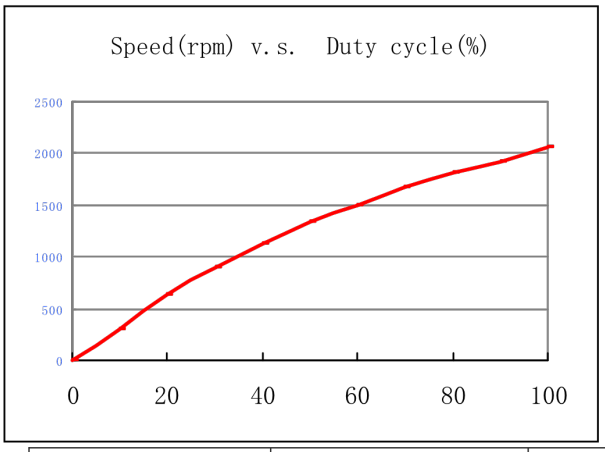
The fan can be controlled from 0 to 2000 rpm via the 4-pin PWM connector. In addition, it offers a silent mode, with which the fan can be regulated down to 0 rpm and then they will only start when they are needed above 600rpm. At 800 rpm, the fan is almost silent. At 2000 rpm, it offers an air flow rate of 154.1m3/h coupled with a high static pressure of 2.20mm/H2O. This makes the fan perfect for mounting on radiators of a water cooling system or for alternatively, as a case fan. Decouplers are located directly on the corners of the frame. The soft foam pads reduce the transmission of vibrations to the case, which in turn reduces noise. Tear-off edges on the fan blades also provide a significant reduction in noise.

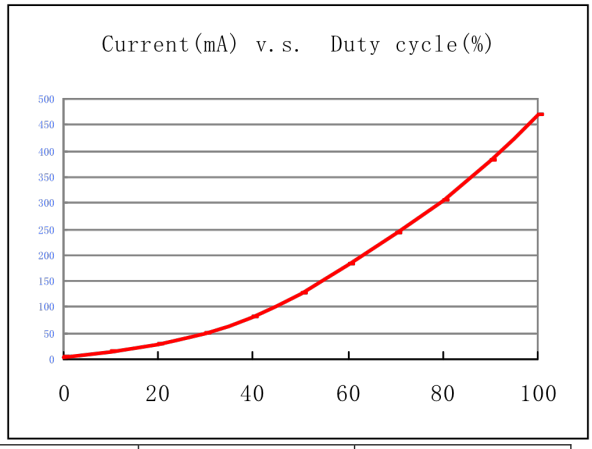
Connectors?

The fan is controlled via a 4-pin PWM connector. The cable is 40cm long. This allows the fan to be connected to the motherboard or a fan controller without the need for additional adapter cables or extensions. The digital aRGB LED illumination is controlled via a JST 3-pin connector and adapters are available to change this into a standard 3 pin aRGB connector if required.

Figure (1)

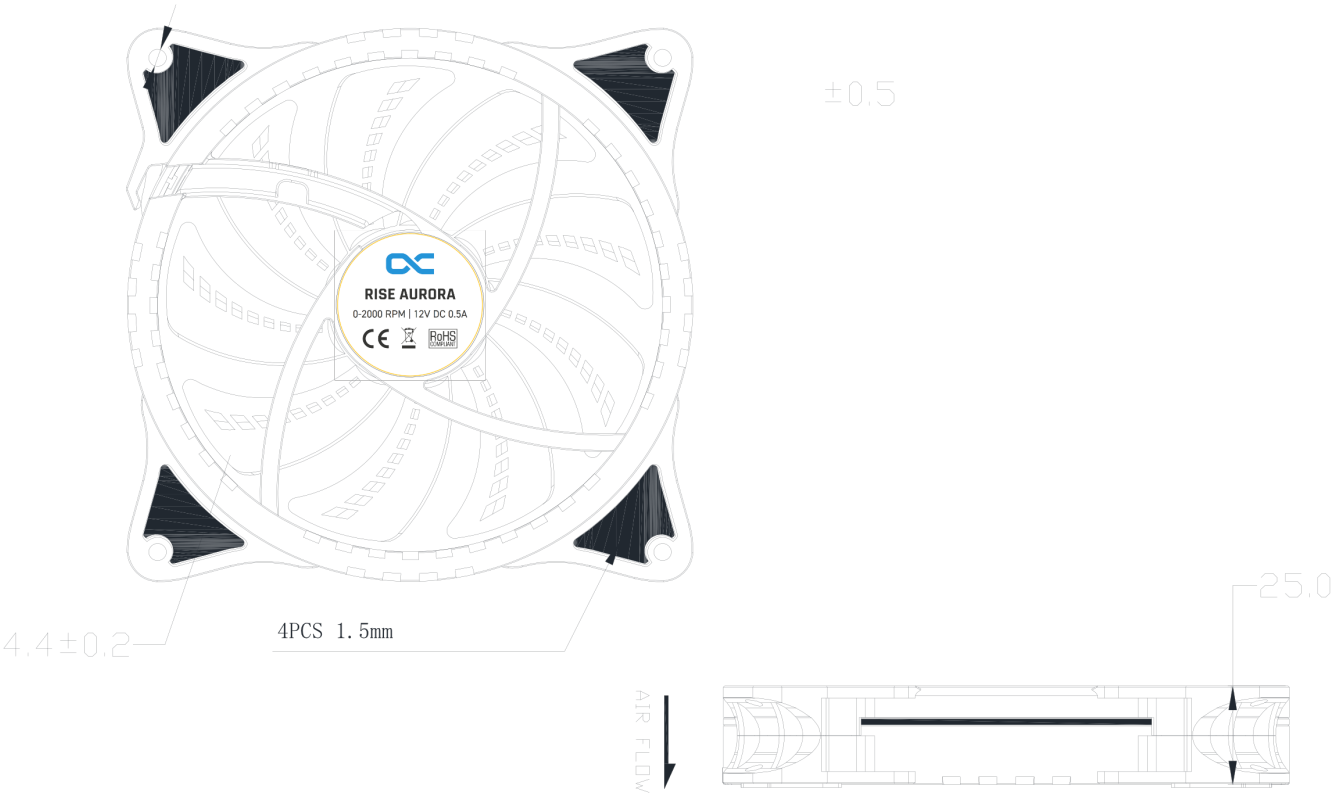
PWM Control Curve:

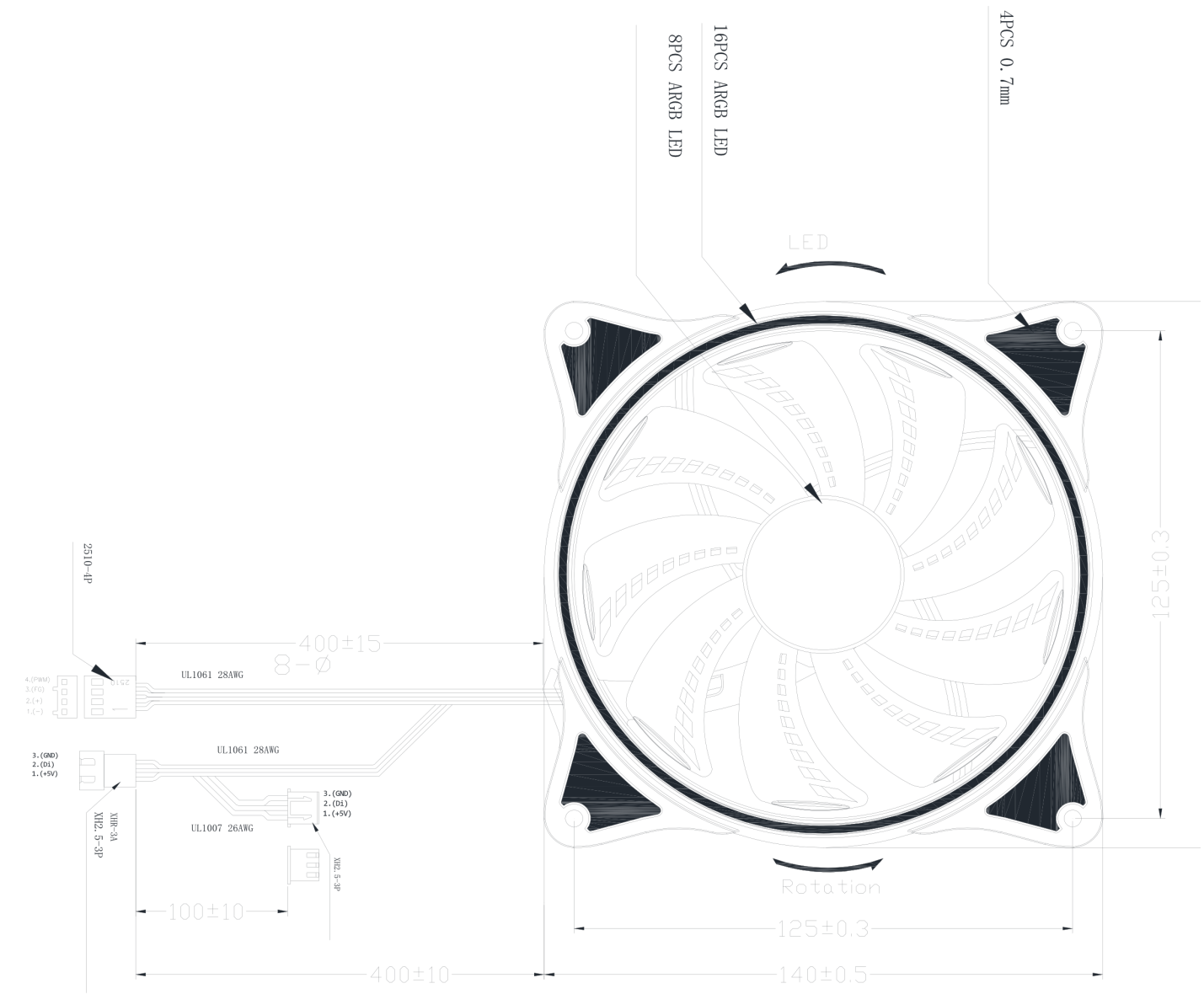




Duty Cycle	PWM Control signal disconnected	0%	20%	100%
Speed(RPM)	2000±10%	0	600±300	2000±10%
Current (mA)	550(Max)	30(Max)	200(Max)	550(Max)

Figure (2)


±0.5
RISE AURORA
0-2000 RPM | 12V DC 0.5A
4.4±0.2
4PCS 1.5mm
25.0
AIR FLOW


4PCS 0.7mm
16PCS ARGB LED
8PCS ARGB LED
LED
125±0.3
Rotation
125±0.3
140±0.5
2510-4P
400±15
8-Ø
UL1061 28AWG
4.(PWM)
3.(FG)
2.(+)
1.(-)
3.(GND)
2.(Di)
1.(+5V)
UL1061 28AWG
3.(GND)
2.(Di)
1.(+5V)
UL1007 26AWG
XHR-3A
XH2.5-3P
XH2.5-3P
100±10
400±10