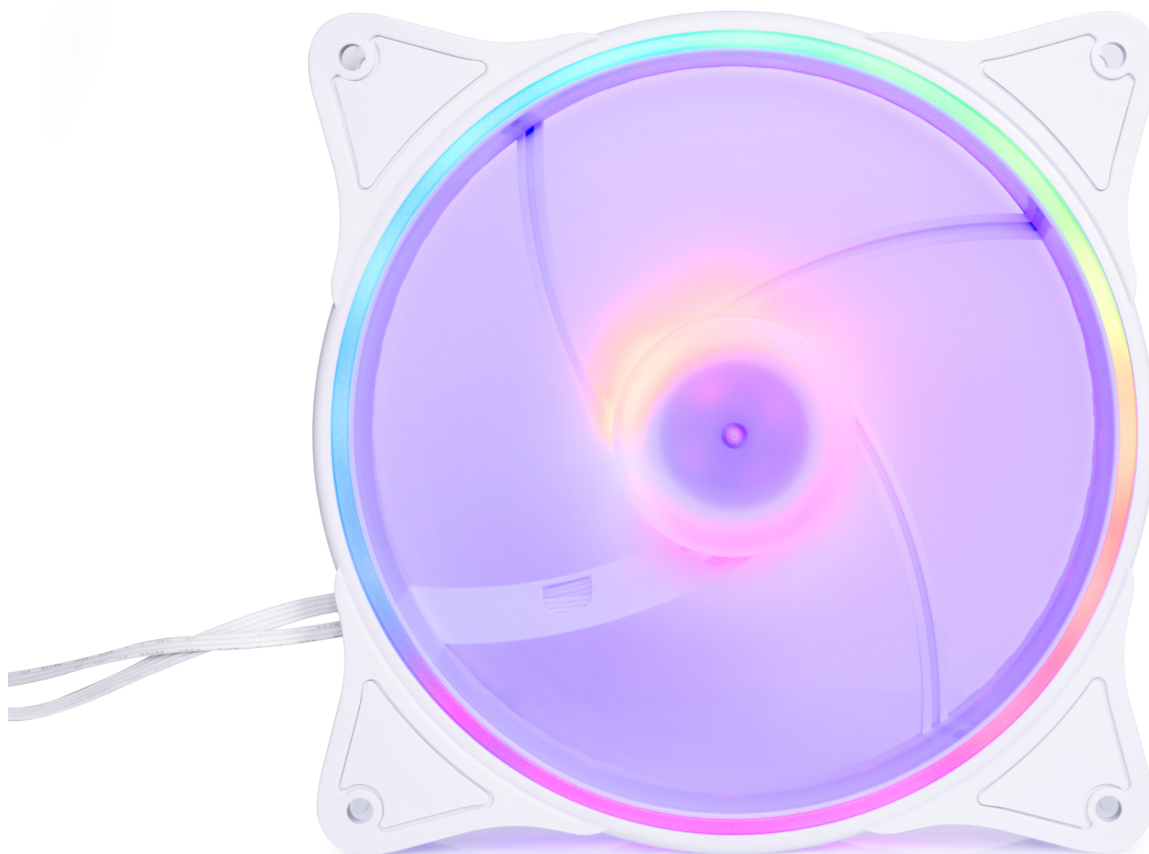# Alphacool Rise Aurora 140mm Fan White (140x140x25mm)

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 25mm
RPM	0-2000 rpm (+/-10%)
Bearing	Sleeve Bearing
Connection	4-Pin PWM
Length PWM cable	40cm
Voltage	12V DC
Power consumption	6,6 Watt (max)
Current consumption	0,50A (0.55A max)
Static pressure	2,20 mm/H2O
Max. air flow	154,1 m³/h
Noise	max. 38,4 dB(A)
MTBF	30,000h
Speedometer signal	yes
Auto-Restart	yes
Weight	206g
Color	white

Technical data aRGB illumination

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

Download links

Product pictures	24851_Alphacool_Rise_Aurora_140mm_Fan_White_(140x140x25mm)_pics.zip

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	4250197248518
Customs code	84145915000

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.
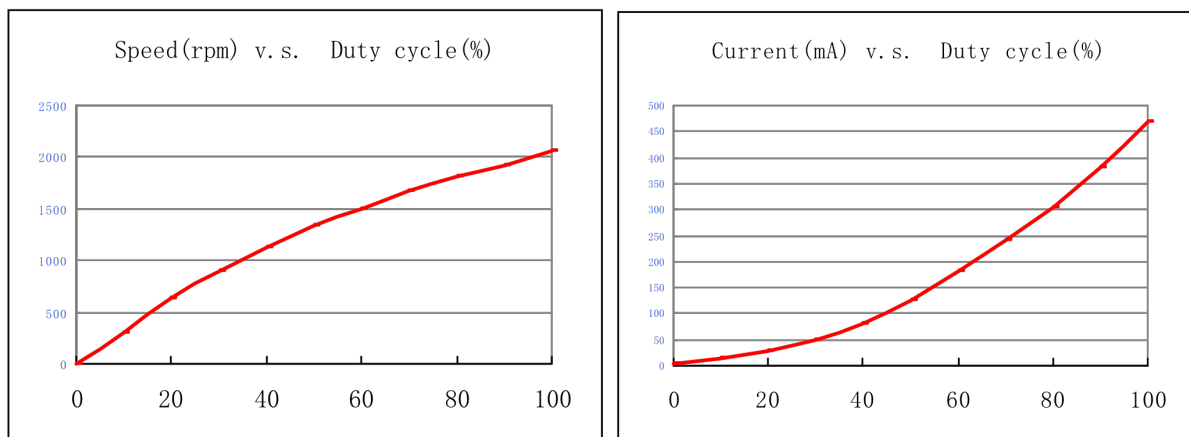
Wide control range and silent

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.

Drawing (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)

±0.5

RISE AURORA
0-2000 RPM | 12V DC 0.5A

CE ☒ RoHS COMPLIANT

4PCS 1.5mm

4.4±0.2

25.0

AIR FLOW

8PCS ARGB LED

16PCS ARGB LED

4PCS 0.7mm

LED

2510-4P

4.(PWM)
3.(FG)
2.(+)
1.(-)

400±15

8-Ø

XH2.5-3A

UL1061 28AWG

3.(GND)
2.(D1)
1.(+5V)

XHR-3A

UL1061 28AWG

3.(GND)
2.(D1)
1.(+5V)

XH2.5-3P

UL1007 26AWG

100±10

400±10

125±0.3

Rotation

125±0.3

140±0.5