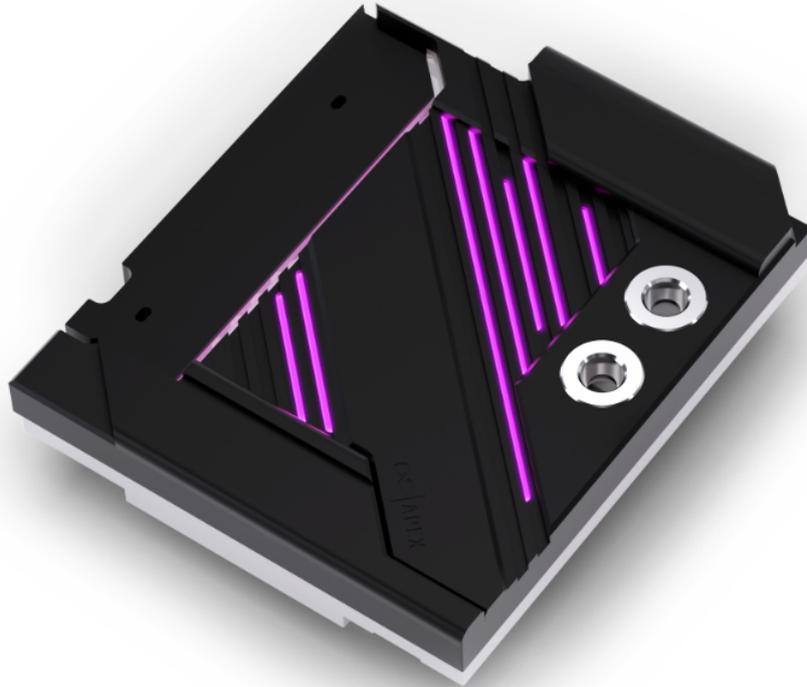


Alphacool Apex Monoblock ROG STRIX X870-F Gaming WIFI (AM5)

Alphacool article number: 14682



Quick Info

The Apex Monoblock is the ideal cooling solution for maximum performance, combined with an elegant design that is perfectly matched to the motherboard. Developed specifically for the motherboard, the monoblock cools the CPU, the voltage regulators (VRMs), as well as the M.2 NVMe SSD located below the CPU socket. All key motherboard components are actively cooled through the monoblock's water block.

- Processors hotspot optimized
- Full-coverage M.2 socket watercooler
- Full-coverage VRM water block
- Stunning aRGB illumination

Compatibility

ASUS ROG Strix X870-F Gaming WiFi (AM5)

Scope of delivery

1x Apex Monoblock	1x Putty tool
2x M2x20mm Screw	4x AM5 Mounting Nut
4x 91x8x2mm Pad	7x Washer
1x 11x15x2mm Pad	7x M3x8mm Screw
1x 71x22x2mm Pad	1x ARGB Adapter
1x Thermal Grease	

Technical data

Dimensions (L x W x H) (in mm)	172,13 x 145,49 x 48,30
Material cooler	Chrome-plated copper (Cu-HCP)
Material cover	Aluminium (AlMg0,7Si)
Material cooler top	Plexi (LXN865)
Material terminal	Brass (CuZn39Pb3)
Threads	2x G 1/4
Material connection thread	Brass (CuZn39Pb3)
Maximum torque G1/4 thread (in Nm)	1,00
Maximum torque M3 thread (in Nm)	0,48
Maximum torque M4 thread (in Nm)	1,12
Maximum operating temperature (in °C)	60
Recommended working temperature (in °C)	20
Minimum operating temperature (in °C)	-20
Maximum tested pressure (in bar)	2,00
Recommended working pressure (in bar)	0,00 - 1,00
Thickness of cooling fins (in mm)	0,40
Distance between cooling fins (in mm)	0,40
LED quantity (in pcs,)	7,00
LED length (in mm)	116,00
LED Voltage (in V DC)	5,00
LED Ampere (in A)	0,06
LED Power (in W)	2,10
Cooling technology	Düsen Engine

Technical data thermalpads

Thermal conductivity of thermal pads (in W/mK)	7
Thermal pads Hardness ASTM 2240	35 Shore 00

Technical data thermalpaste

Evaporation rate	Less than 0,5
Density (g/cm ³)	3,2 (Test method ASTM D2196)
Viscosity	150-200*10 ³ (Test method ASTM D2196)
Operating temperature (°C)	-40°C to 120°C
Breakdown voltage (V/mil)	250 (Test method ASTM D149)
Thermal impedance (°C in 2/W)	0.1 +/- 0.01 (Test method ASTM D5470)
Maximum operating pressure (psi)	40
Quantity (in gramm)	1g
Color	Grey

Download links

Manual	14682_Alphacool_Apex_Monoblock_ROG_STRIX_X870-F_Gaming_WIFI_(AM5)_Manual.pdf
Product pictures	14682_Alphacool_Apex_Monoblock_ROG_STRIX_X870-F_Gaming_WIFI_(AM5)_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_14682.pdf

Packaging dimensions per unit

L x W x H	290 x 255 x 290 mm
Weight	2330 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197146821
Customs code	84195080900
Guarantee	5 years

Article text

The Apex Monoblock is the ideal cooling solution for maximum performance, combined with an elegant design that is perfectly matched to the motherboard. Developed specifically for the motherboard, the monoblock cools the CPU, the voltage regulators (VRMs), as well as the M.2 NVMe SSD located below the CPU socket. All key motherboard components are actively cooled through the monoblock's water block.

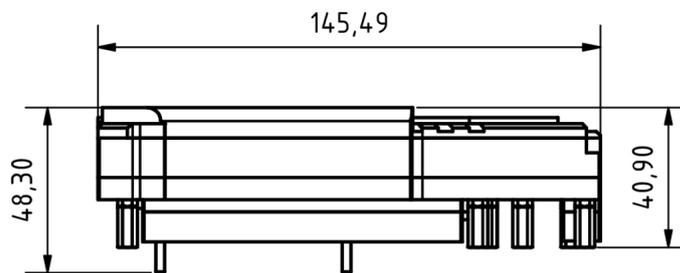
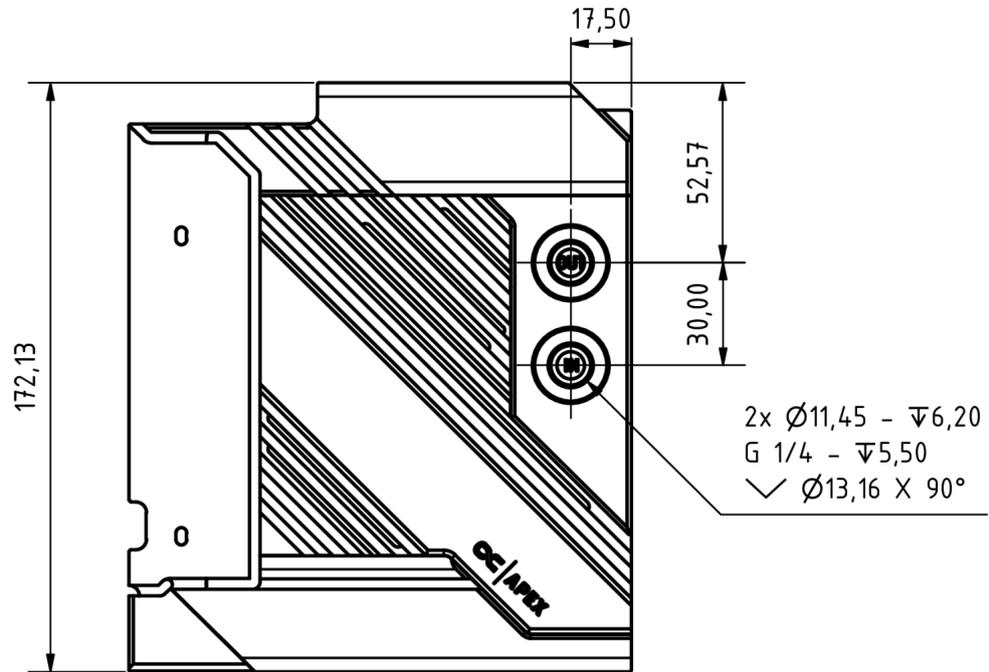
Like the Apex 1 CPU cooler, the Apex Monoblock uses an offset cold plate. This allows the coolant flow to hit the thermal hotspot of the AM5 CPU directly. In combination with the proven cross-slot structure and the 3D Jetplate 2.0, this design generates high water pressure, enabling particularly efficient heat dissipation. Ideal for overclocking or continuous operation.

The cooler is milled from a solid block of copper. The G1/4" connection terminal is made of brass and, together with the copper base, ensures long durability as well as excellent thermal conductivity.

The Apex Monoblock design, tailored to the respective motherboard, not only delivers optimal cooling performance but also integrates seamlessly into the motherboard's appearance.

The original LED I/O cover of the motherboard remains fully intact and is complemented by the subtly integrated Apex-style aRGB lighting of the monoblock.

The monoblock combines performance, design, and functionality, making it a highlight of any custom water-cooling setup.



General tolerance: $\pm 0,25\text{mm}$
Dimension in millimeter