

Alphacool ES RTX 5090 Reference 1-Slot-Design with Backplate

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Quick Info

Alphacool expands its Enterprise series with the latest 1-slot water coolers for the current Nvidia GeForce RTX generation. These solutions are specifically designed for use in server enclosures and workstations, enabling efficient cooling even in densely packed systems.

- Optimized water flow through software and practical measurements
- Massive brass threads for secure fastening
- Superior chrome plating instead of nickel plating on the copper cooler
- Core design for maximum quality and feel

Compatibility

- Inno3D Inno3D GeForce RTX™ 5090 iChill Frostbite (C50903-32D7X-1759FB)
- Inno3D Inno3D GeForce RTX™ 5090 iChill X3 (C50903-32D7X-175967H)
- Inno3D Inno3D GeForce RTX™ 5090 X3 (N50903-32D7-17593928)

Scope of delivery

1x Core Geforce RTX 5090 Reference 1-Slot-Design cooler	1x Thermal Grease
1x Backplate	1x Putty tool
2x 68x15x1mm Pad	1x ARGB Adapter
1x 54x15x1mm Pad	1x PCIe Bracket
4x 8x8x1mm Pad	1x Plug tool
2x 12x15x1mm Pad	1x Screwdriver
1x 91,5x8x1mm Pad	2x G1/4" Plug
1x 101x8x1mm Pad	6x M2x10mm screws
2x 68x8x3mm Pad	1x M2x5mm spring screw
1x 45x45x3mm Pad	1x washer
1x 20x8x3mm Pad	1x M2x5mm screw

Technical data cooler

Dimensions total (L x W x H)	224,29 x 119,32 x 21,34mm
Material cooler	chrome-plated copper
Material cooler top	Acrylic
Material terminal	Acetal
Material Connection thread	Brass
Max working temperature	60°C
Pressure tested	0,8 bar
Threads	4 x G1/4"
Thickness cooler bottom	3,25mm
Thickness cooling fins	0,4mm
Distance cooling fins	0,4mm
Illumination	digital aRGB LEDs
Power connector digital aRGB LEDs	3-Pin JST
Power digital aRGB LEDs	5V
Number of digital aRGB LEDs	9
Color	transparent

Technical data backplate

Dimensions (L x W x H)	224,29 x 119,32 x 3mm
Thick backplate without spacers	1mm
Material	Aluminium

Download links

Manual	10262_Alphacool_ES_RTX_5090_Reference_1-Slot-Design_with_Backplate_Manual.pdf
Product pictures	10262_Alphacool_ES_RTX_5090_Reference_1-Slot-Design_with_Backplate_pics.zip

Packaging dimensions per unit

L x W x H	350 x 205 x 60 mm
Weight	1500 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197102629
Customs code	84195080900
Guarantee	3 years

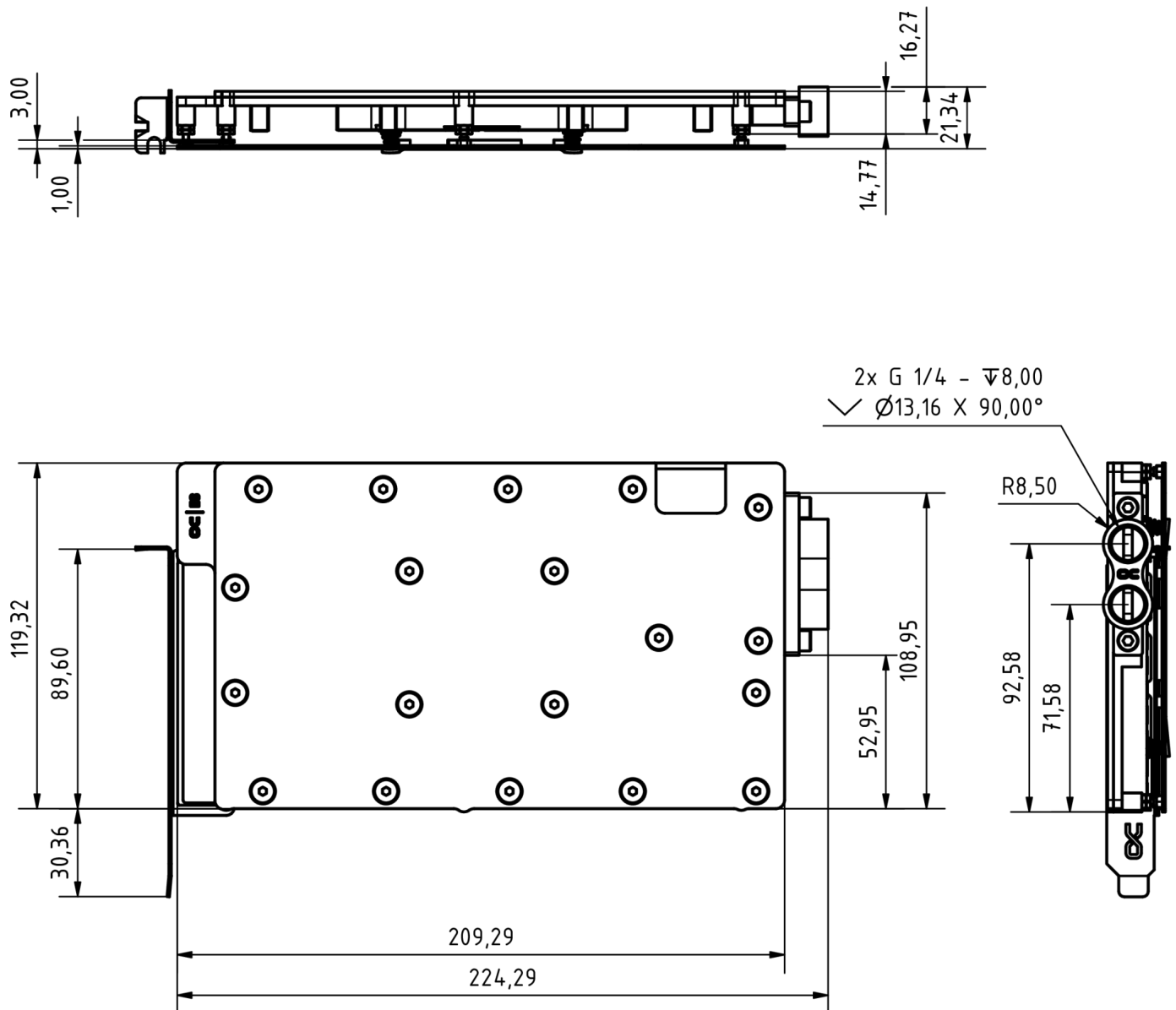
Article text

Alphacool expands its Enterprise series with the latest 1-slot water coolers for the current Nvidia GeForce RTX generation. These solutions are specifically designed for use in server enclosures and workstations, enabling efficient cooling even in densely packed systems.

By employing a thin yet extremely robust carbon plate, these coolers have been designed as 1-slot units without compromising the integrity of the copper block. Paired with rear-placed brass connectors, multiple coolers can be easily stacked on top of each other or side by side within a server case. This thoughtful design saves space, simplifies tubing, and allows for seamless integration into the water circuit.

All water-bearing parts are made from high-quality copper, which offers nearly twice the thermal conductivity of aluminum. Additionally, the copper is chrome-plated rather than nickel-plated, providing extra protection for the cooler. Chrome plating is more resistant to acids, scratches, and other damage, effectively preventing the chipping of coatings.

The GPU water cooler has undergone a complete technical overhaul. To optimize cooling performance, the spacing between the cooler and the components on the PCB was redefined and tested. The water flow was simulated using state-of-the-art software and validated through practical trials. These extensive tests led to improvements in the cooler base and nozzle, ensuring the best possible cooling performance for the new Nvidia GeForce RTX generation.



General tolerance: $\pm 0,25\text{mm}$
 Thickness with graphics card (PCB)
 Dimension in millimeter