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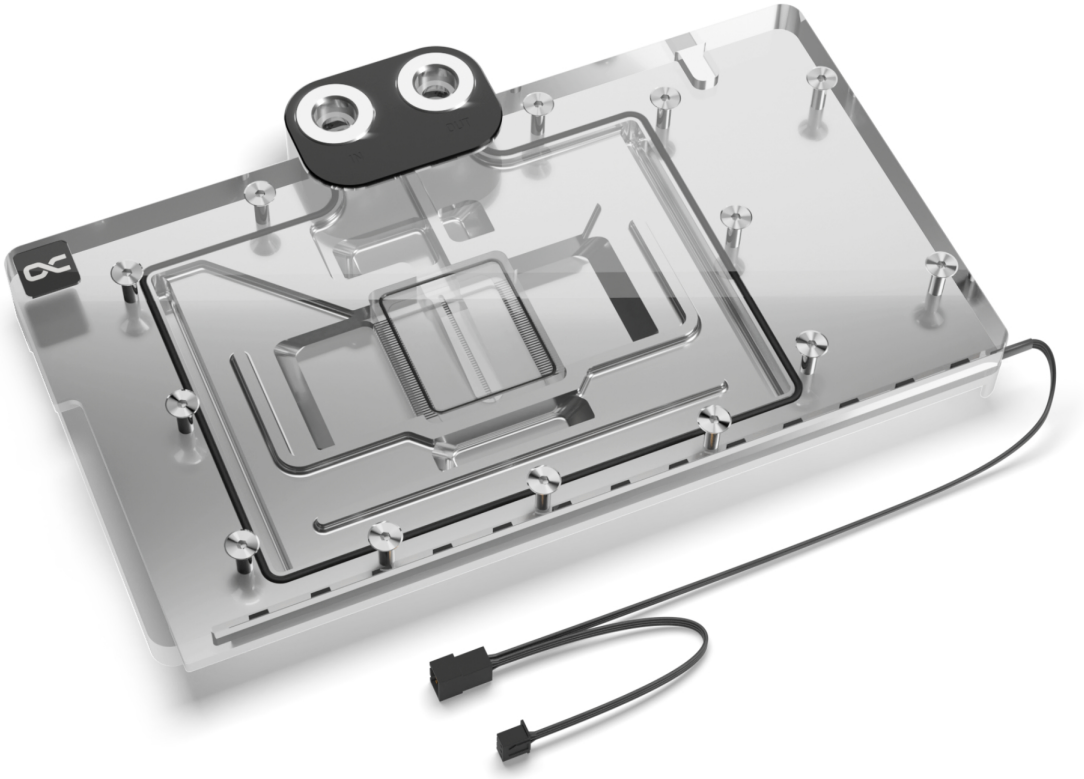
Alphacool Core Geforce RTX 4090 Master V.2 with backplate

Alphacool article number: 13837



Quick Info

Alphacool's Core product series is characterized by high quality, outstanding performance and the uniform and functional design language.

- Optimised fin structure enables very good water flow & increase of cooling surface
- Modified jet plate ensures optimal distribution of the water on the cooling fins
- Visually calm & simple design with digital aRGB illumination
- Chrome-plated copper cooler

Compatibility

Note: This Version (V.2) of the cooler is compatible with PCB Layout V.1.1

- Gigabyte AORUS GeForce RTX 4090 Master 24G, 24GB GDDR6X (GV-N4090AORUS M-24GD)
- Gigabyte GeForce RTX 4090 Gaming OC 24G, 24GB GDDR6X (GV-N4090GAMING OC-24GD)

Scope of delivery

1x Core Geforce RTX 4090 Master V.2 Cooler	1x Putty tool
1x Backplate	6x M2x5mm Screw
1x 40x15x1mm Pad	6x EVA Washer
4x 8x8x1mm Pad	2x 100x8x3mm Pad
2x 51x15x1mm Pad	1x 40x15x3mm Pad
2x 105x8x1mm Pad	1x 45x45x3mm GPU-Pad
1x 15x15x1mm Pad	2x 40x8x3mm Pad
3x 100x8x1mm Pad	6x M2x10mm Screw
1x 33x8x1mm Pad	1x ARGB Adapter
1x Screwdriver	1x Plug tool
1x Thermal Grease	2x G1/4 Plug

Technical data cooler

Dimensions (L x W x H)	235,80 x 152,96 x 31,90mm
Material cooler	chrome-plated copper
Material cooler top	acrylic
Max working temperature	60°C
Pressure tested	0,8 bar
Threads	4 x G1/4"
Thickness cooler bottom	11,3mm
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	13
Color	transparent

Technical data backplate

Dimensions (L x W x H)	235,80 x 129,96 x 5mm
Material	aluminium
Color	black

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Manual	13837_Alphacool_Core_Geforce_RTX_4090_Master_V.2_with_backplate_Manual.pdf
Product pictures	13837_Alphacool_Core_Geforce_RTX_4090_Master_V.2_with_backplate_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_13837.pdf

Packaging dimensions per unit

L x W x H	330 x 200 x 50 mm
Weight	1500 g

We assume no responsibility for any typing errors. Alphacool International GmbH, Marienberger Strasse 1, 38122 Braunschweig Tel: (+49)0531 288 7400 Supportmail: info@alphacool.com

Other data

Certificates	CE, FC, RoHS
EAN	4250197138376
Customs code	84195080900
Guarantee	3 years

Article text

Alphacool's Core product series is characterized by high quality, outstanding performance and the uniform and functional design language.

The copper cooler which, like the end terminal, is milled from a single piece of copper and is the core of this cooler. The fine workmanship, paired with the hard and resistant chrome plating covering the entire copper cooler, meet the highest quality standards. The chrome-plated brass G1/4" threads integrated on both sides stand out visually from the terminal. They are a central feature of the new design language that will be evident in all products in the Core series.

The aluminum backplate adapted to the design, together with the terminal, makes up the entire unit and enhances the back of the cooler with a clean and homogeneous look. The lighting consists of digitally addressable RGB LEDs, which illuminate the entire cooler evenly and effectively.

The technical advancements can be seen in the water supply to the jet plate as well as in the optimization of the jet plate itself. The jet plate has been completely redesigned based on many simulations and practical tests in cooperation with board partners. The fin thickness and spacing have been enhanced, the cooling surface has been increased and the water flow to the core components with the greatest heat output has been optimized. The enclosed special soft thermal pads with up to 7 W/mK adapt perfectly to even the smallest tolerances.

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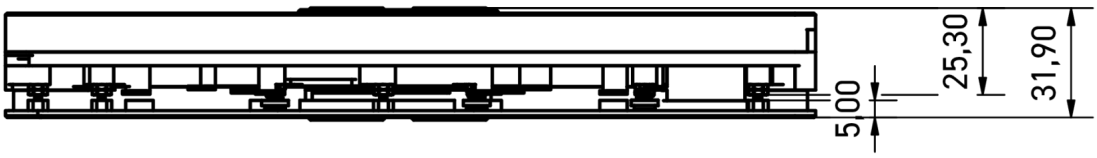
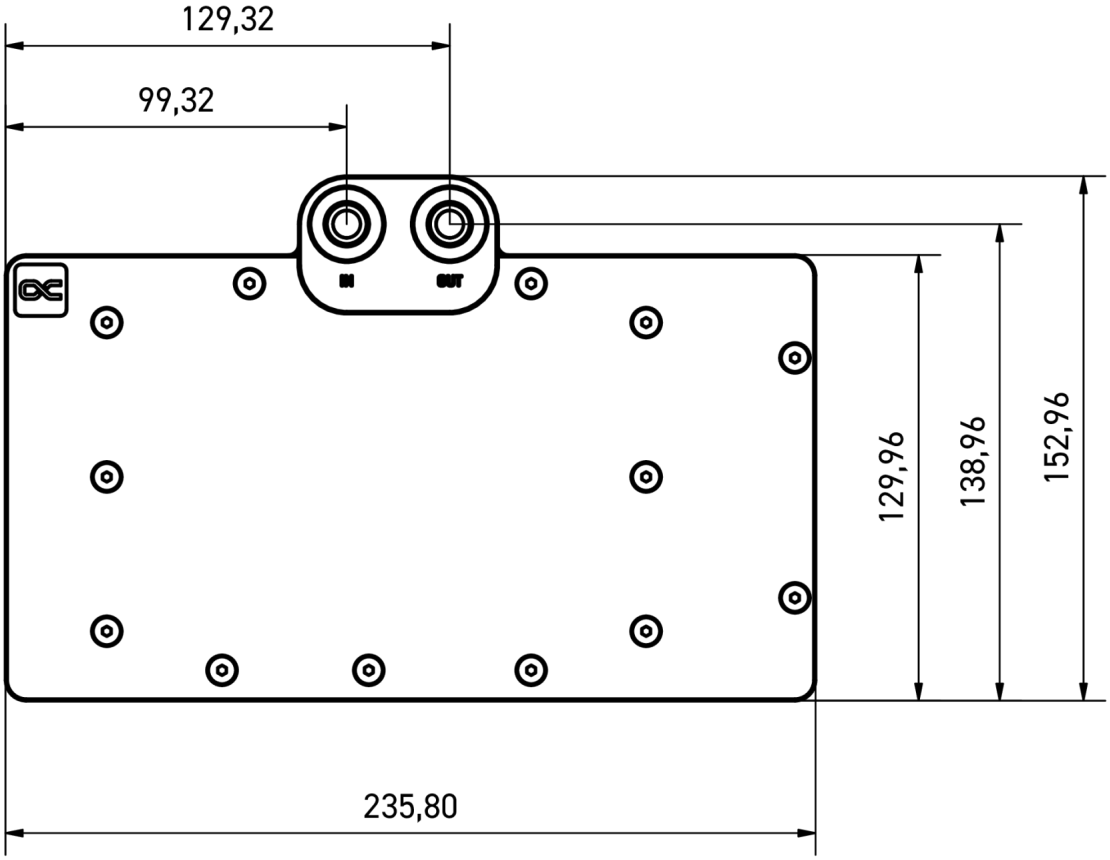
Figure





General tolerance: ± 0,25mm
Dimension in millimeter