



DATASHEET



COMINO GPU WCB FOR Gigabyte GeForce RTX™ 5090 Cu-Steel

KEY ADVANTAGES



High quality liquid cooling
of the GPU



Heat dissipation increased
up to 10 times as compared
to the air-cooling



Thermally-tested and quality
guaranteed. Low ΔT° between
the chip and inlet coolant
temperatures is assured



High efficient deformational
cutting technology for micro-
fins (0.25mm x 2.7mm)
manufacturing



Designed for Gigabyte
GeForce RTX™ 5090



Only non-corrosive materials
(Copper, Stainless Steel, Plastic)

The Comino liquid-cooling system is based on the deformational cutting technology that allows to transfer more heat from the source than you would normally expect with direct liquid cooling.

This unique technology allows to create a copper fin as thin as 0.1mm with 0.1mm channel and 3mm height. In Comino solution microfins are optimized for low pressure drop with the thickness of 0.25mm, channel – 0.25mm and 2.7mm height.

Large increase (up to 12 times) of the waterblock surface area that contacts with the coolant allows faster heat dissipation. It prevents thermal throttling of CPU and GPU keeping temperatures within a safe range even at 24/7 operation in harsh environment.

This advantage makes our waterblocks extremely efficient (low ΔT°) and cost-effective.



Fullcover Waterblock
cools the GPU, GDDR,
and the VRM altogether



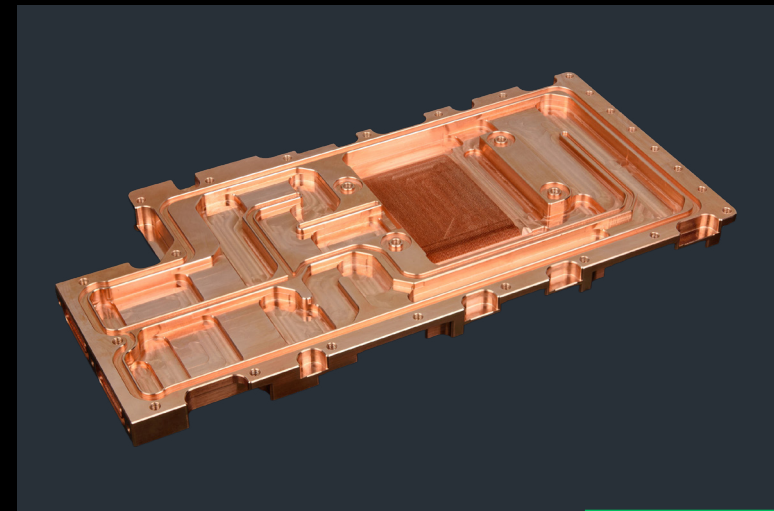
Single PCI Design



Fittings on the Back –
Server Ready

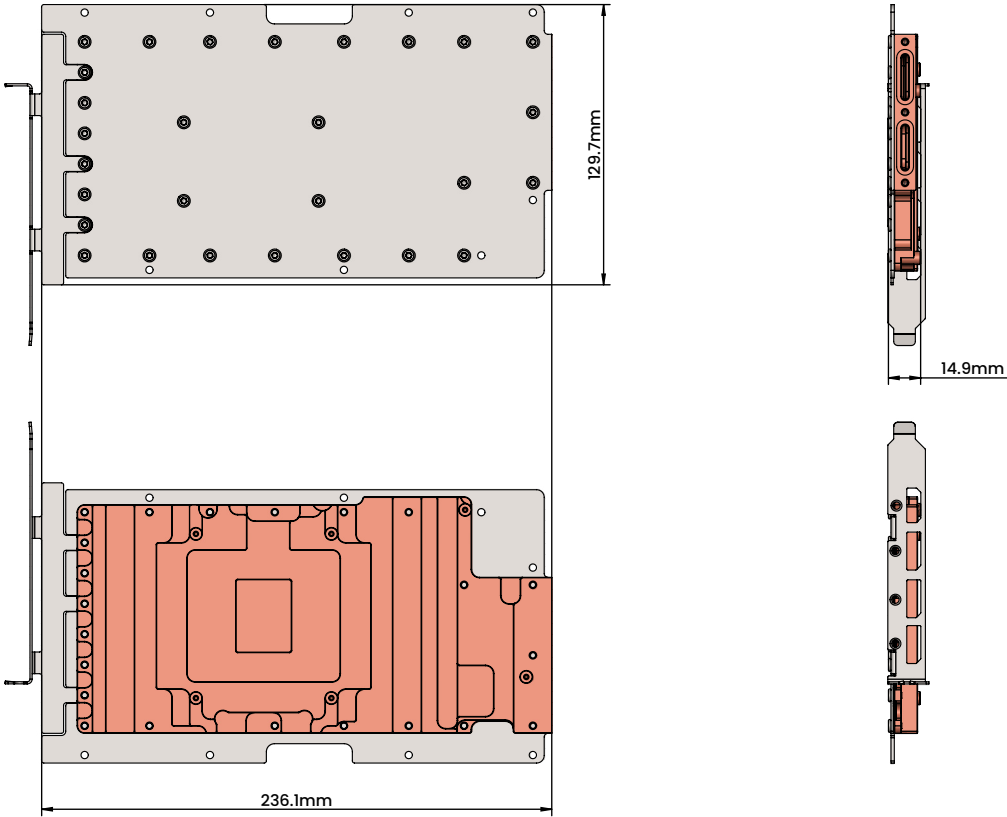


90° Adapter Option –
Workstation Ready



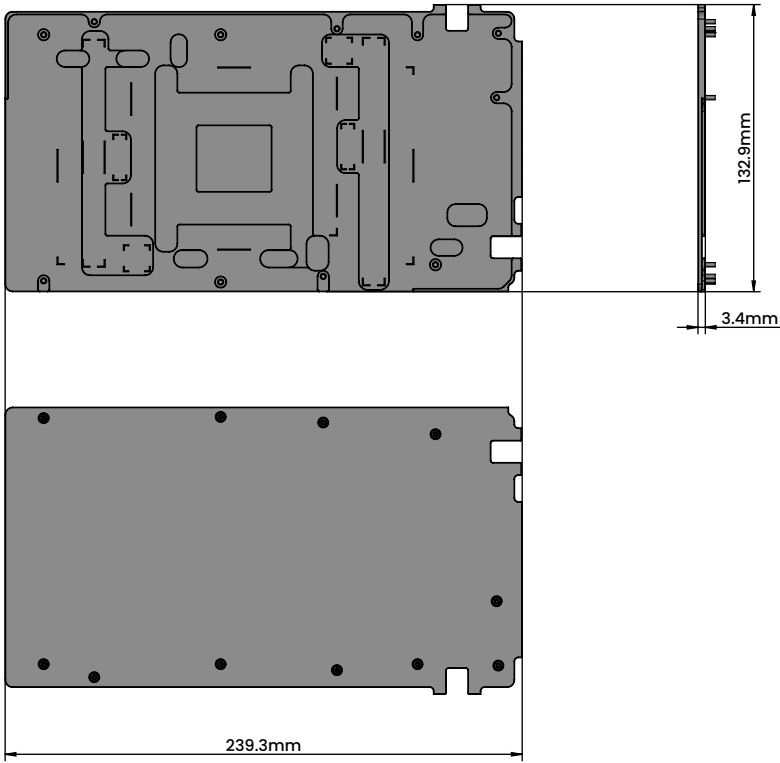
Core Block

ID	Name	Release date
8740	WCB GPU (Gigabyte 5090OC) Core Kit	Apr, 25



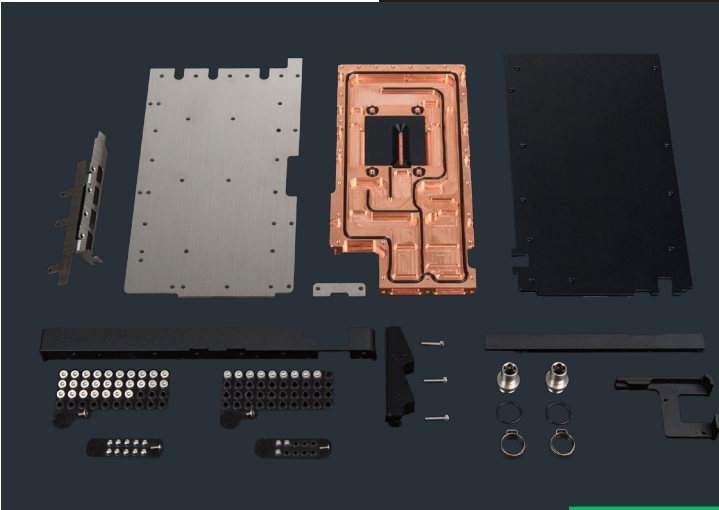
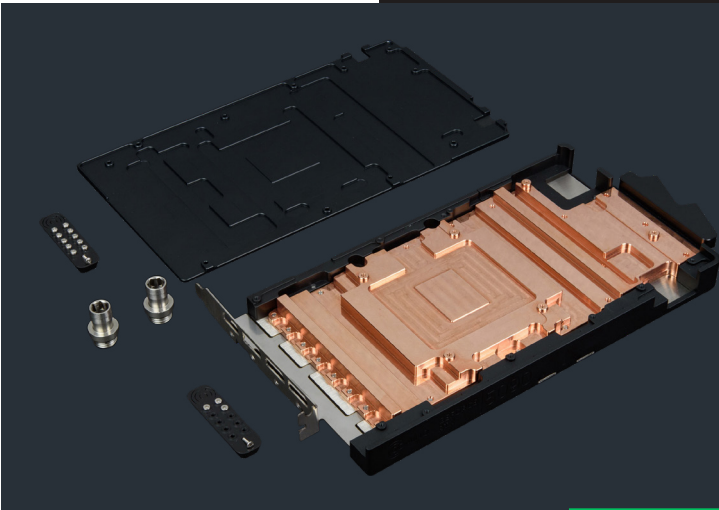
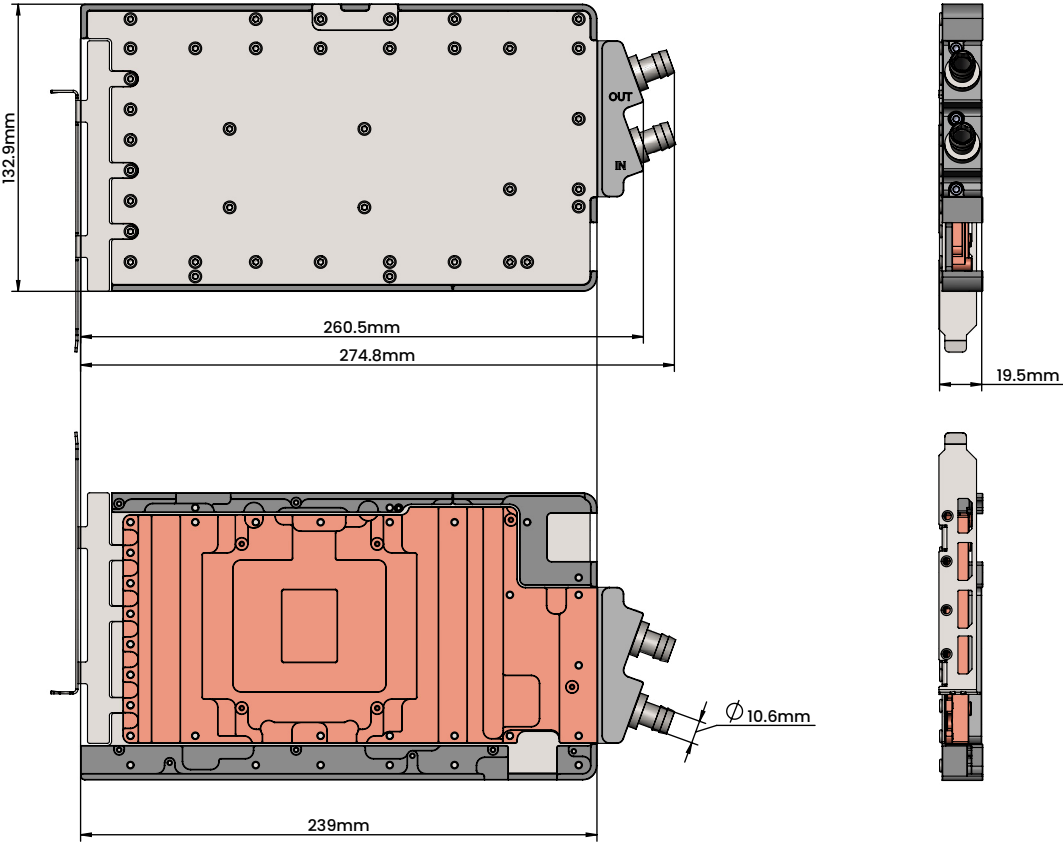
Backplate Options

ID	Name	Release date
8742	WCB GPU (Gigabyte 5090OC) Backplate Kit	May, 25



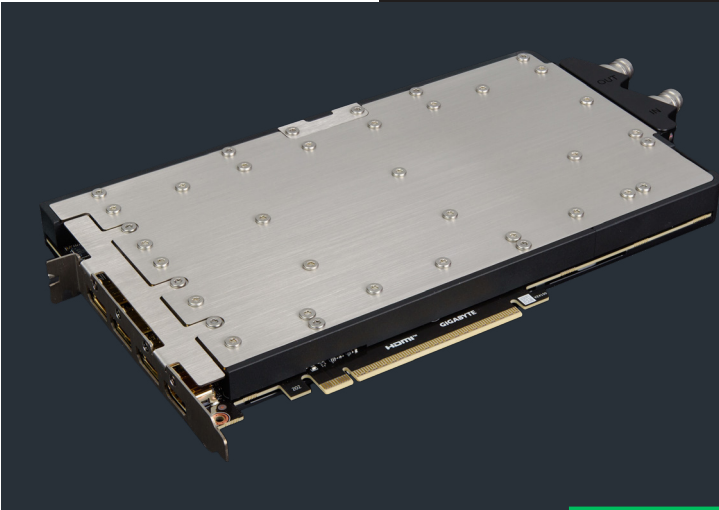
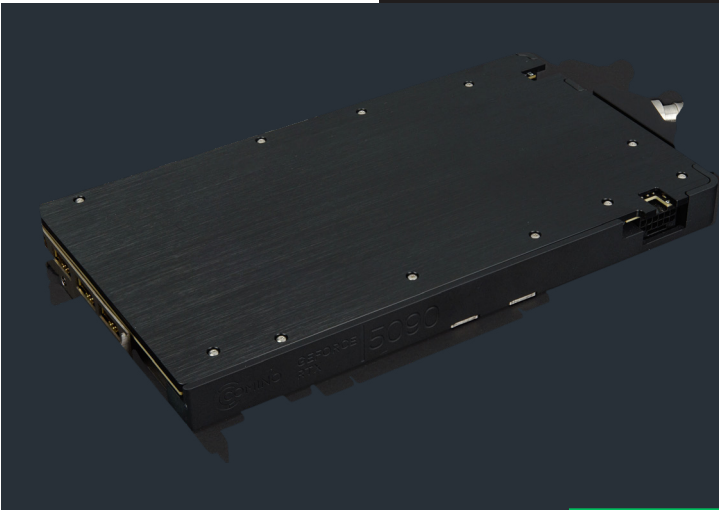
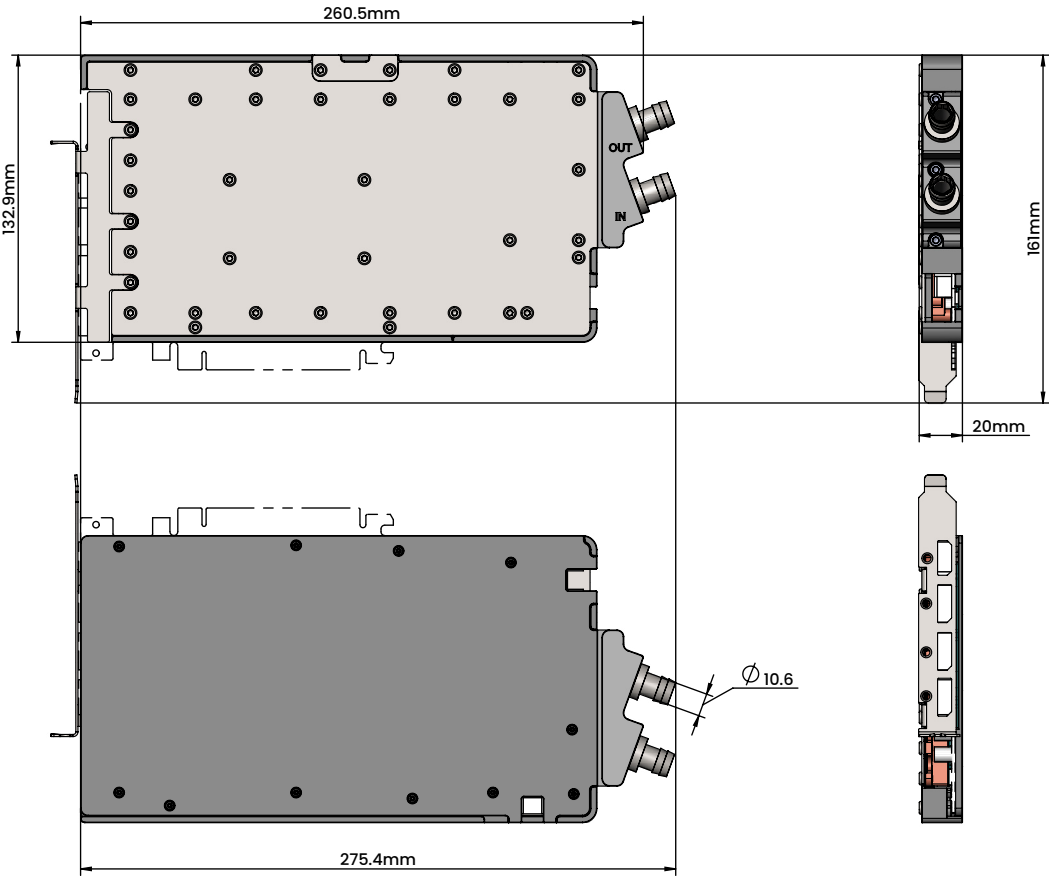
Kit Options

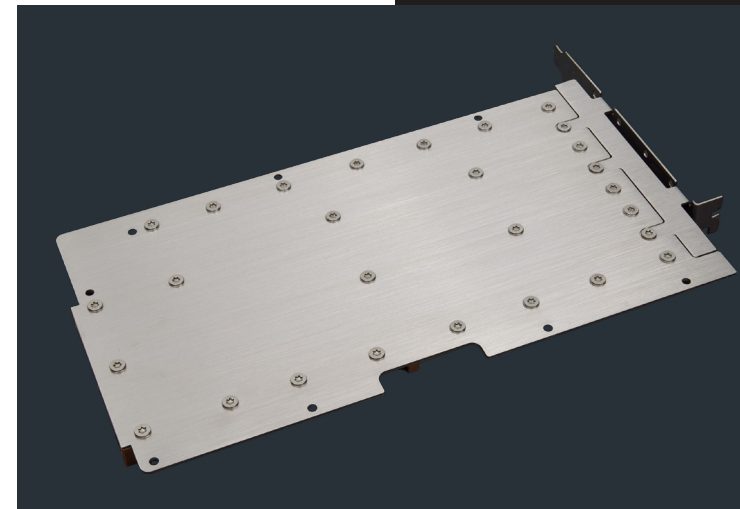
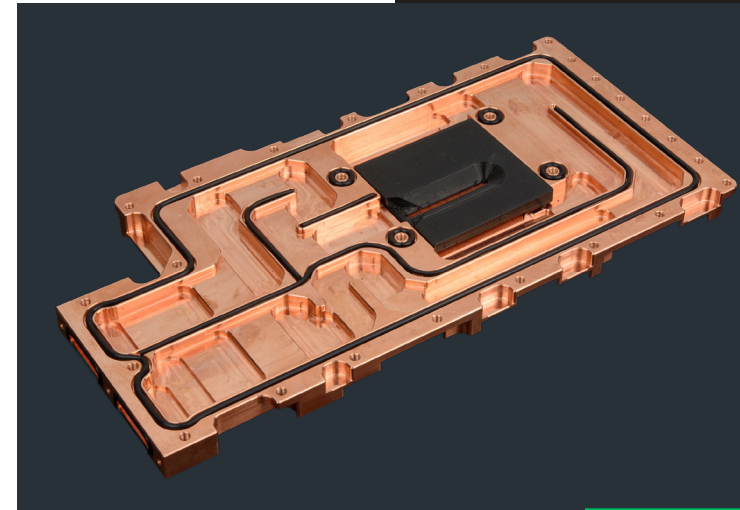
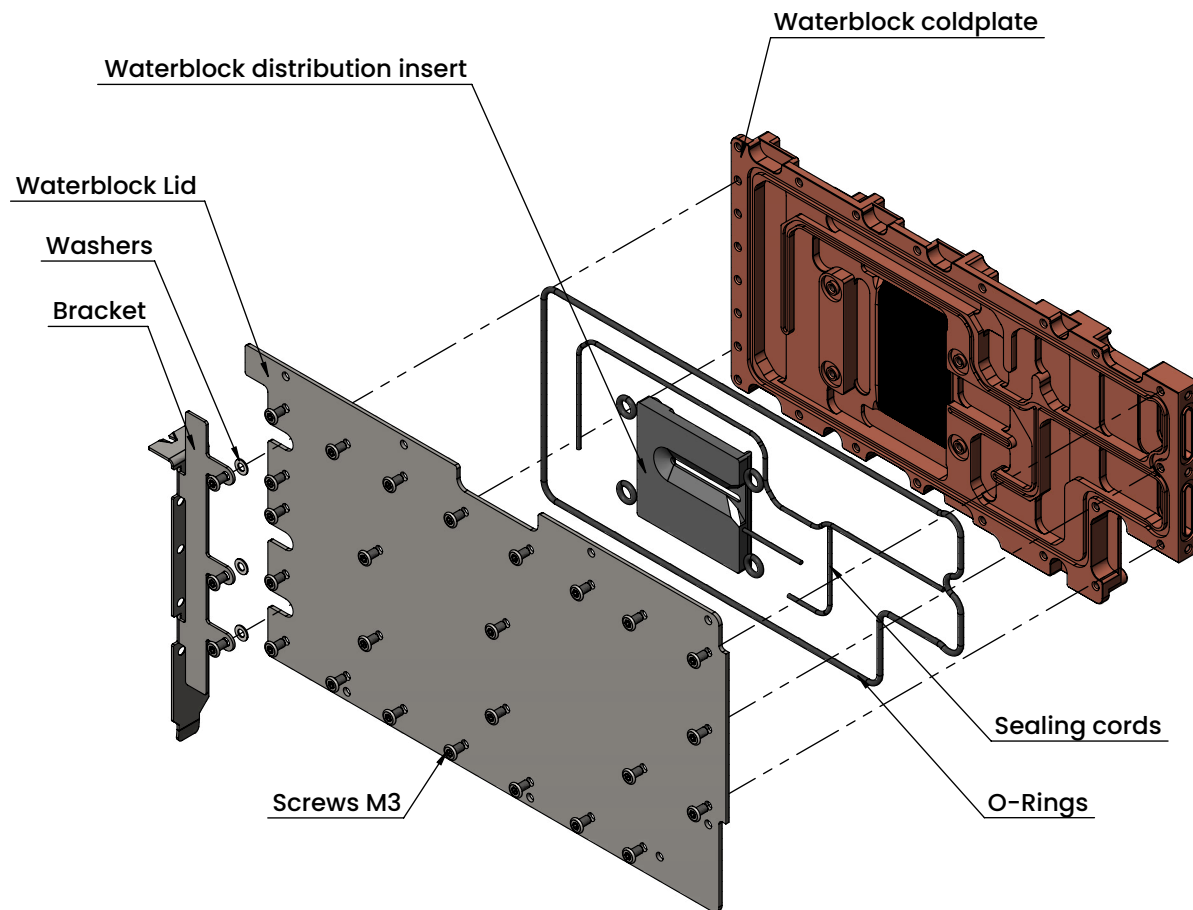
ID	Name	Release date
8740	WCB GPU (Gigabyte 5090OC) Core Kit	Apr, 25
8741	WCB GPU (Gigabyte 5090OC) Frame Kit	Apr, 25
8743	WCB GPU (Gigabyte 5090OC) Retail Kit	Feb, 25
8744	WCB GPU (Gigabyte 5090OC) Adapter single Kit	Feb, 25



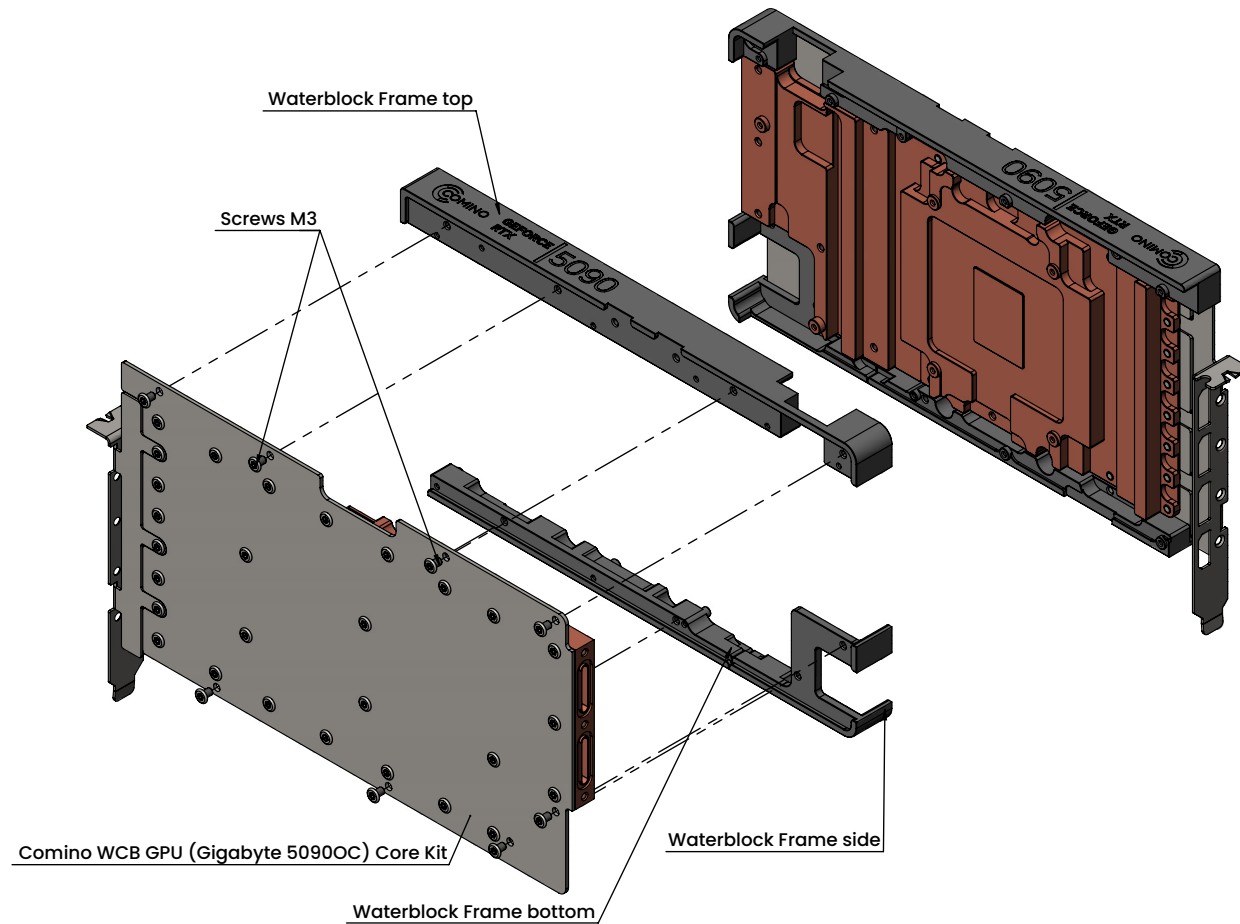
GPU Water Cooling Block Set

ID	Name	Release date
8706	Comino GPU WCB for Gigabyte 5090, Cu-Steel, AI-Black Backplate, Angular Adapter 2x G1/4"	May, 25
	8740 WCB GPU (Gigabyte 5090OC) Core Kit	Apr, 25
	8741 WCB GPU (Gigabyte 5090OC) Frame Kit	Apr, 25
	8743 WCB GPU (Gigabyte 5090OC) Retail Kit	Feb, 25
	8744 WCB GPU (Gigabyte 5090OC) Adapter single Kit	Feb, 25
	8742 WCB GPU (Gigabyte 5090OC) Backplate Kit	May, 25

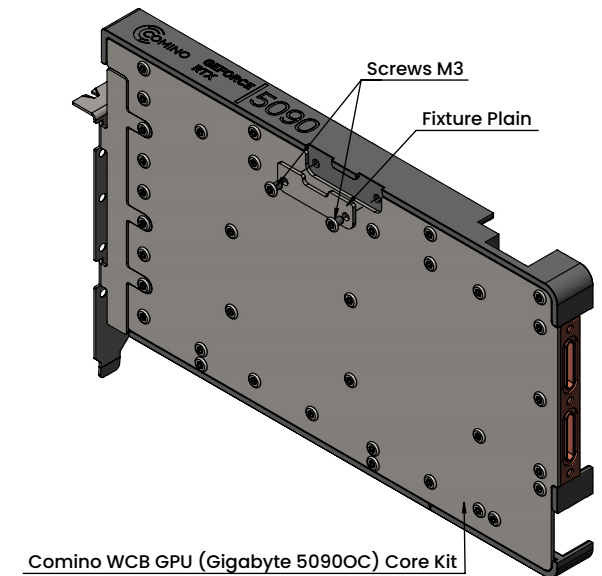




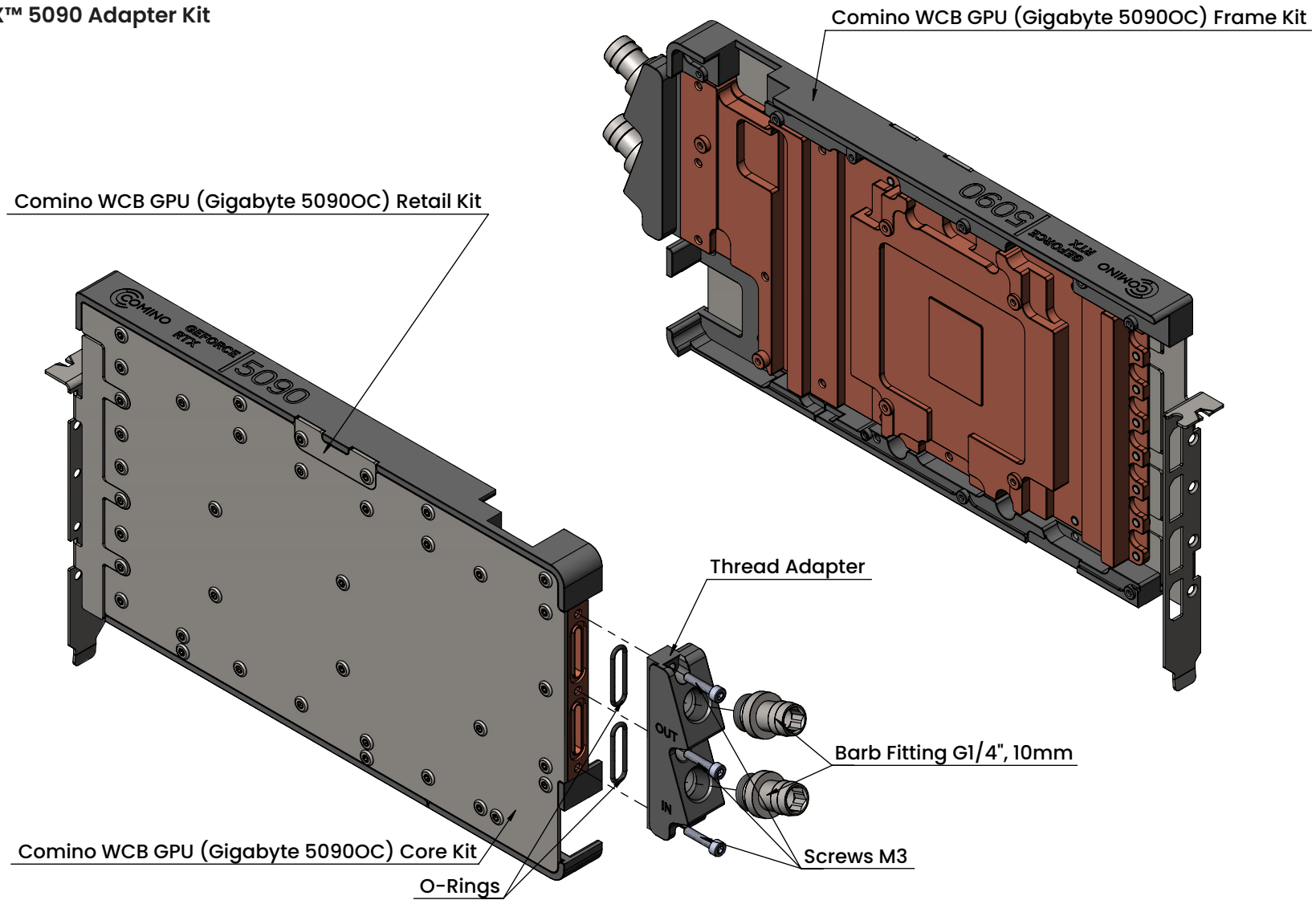
WCB GeForce RTX™ 5090 Frame Kit



WCB GeForce RTX™ 5090 Retail Kit

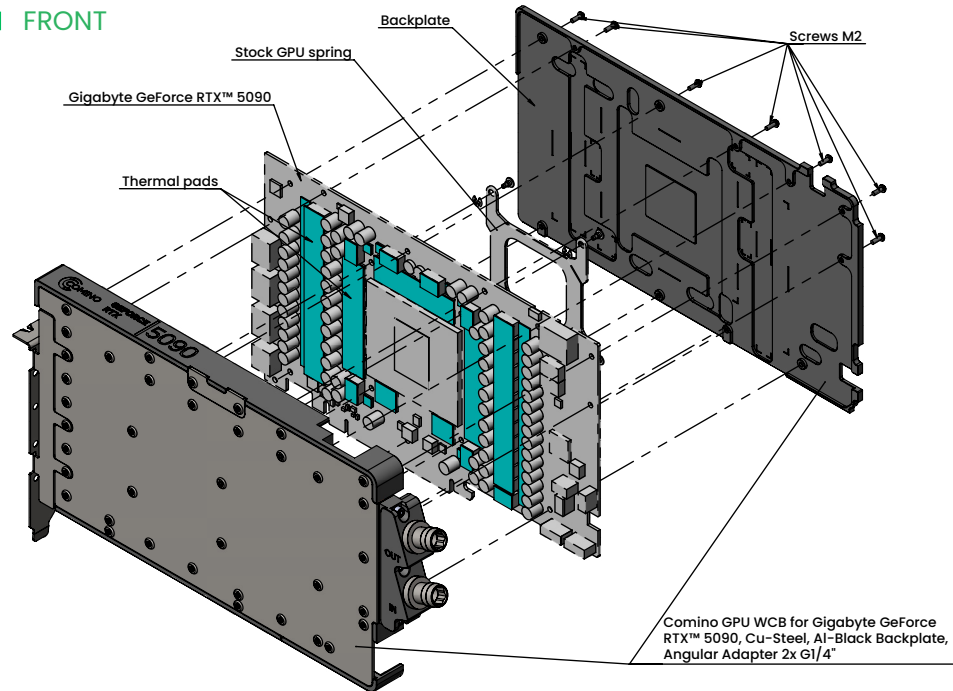


WCB GeForce RTX™ 5090 Adapter Kit

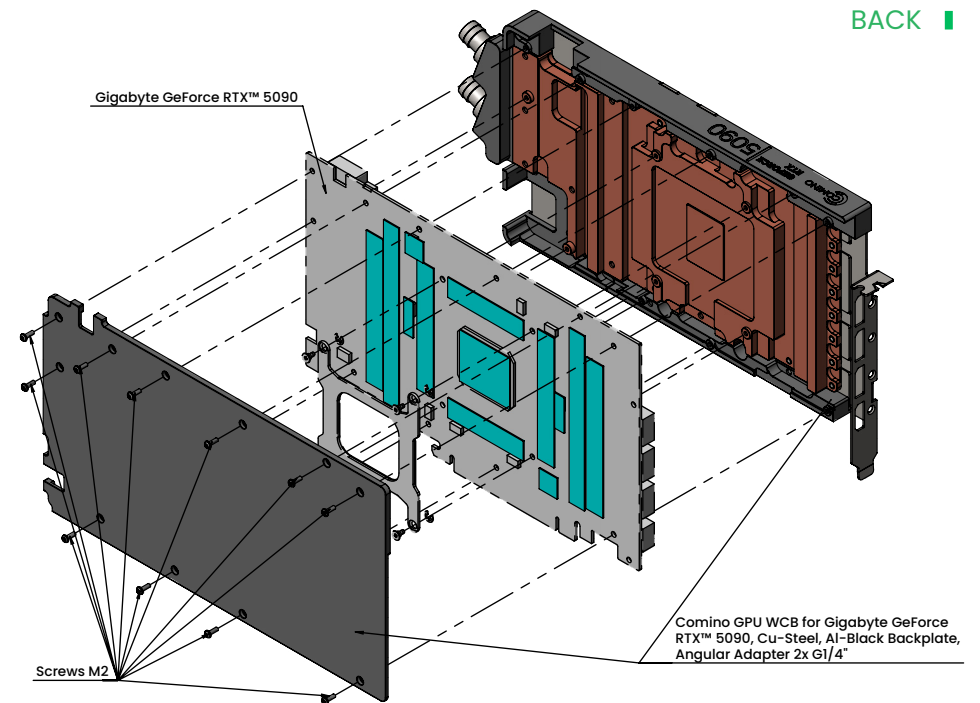


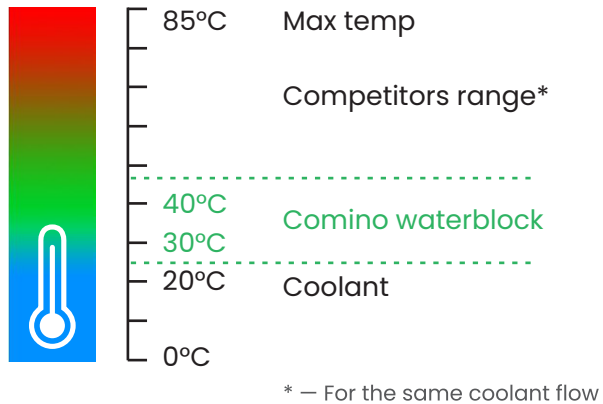
Comino GPU WCB for GeForce RTX™ 5090, Cu-Steel, Al-Black Backplate, Side Adapter 2x G1/4"

FRONT



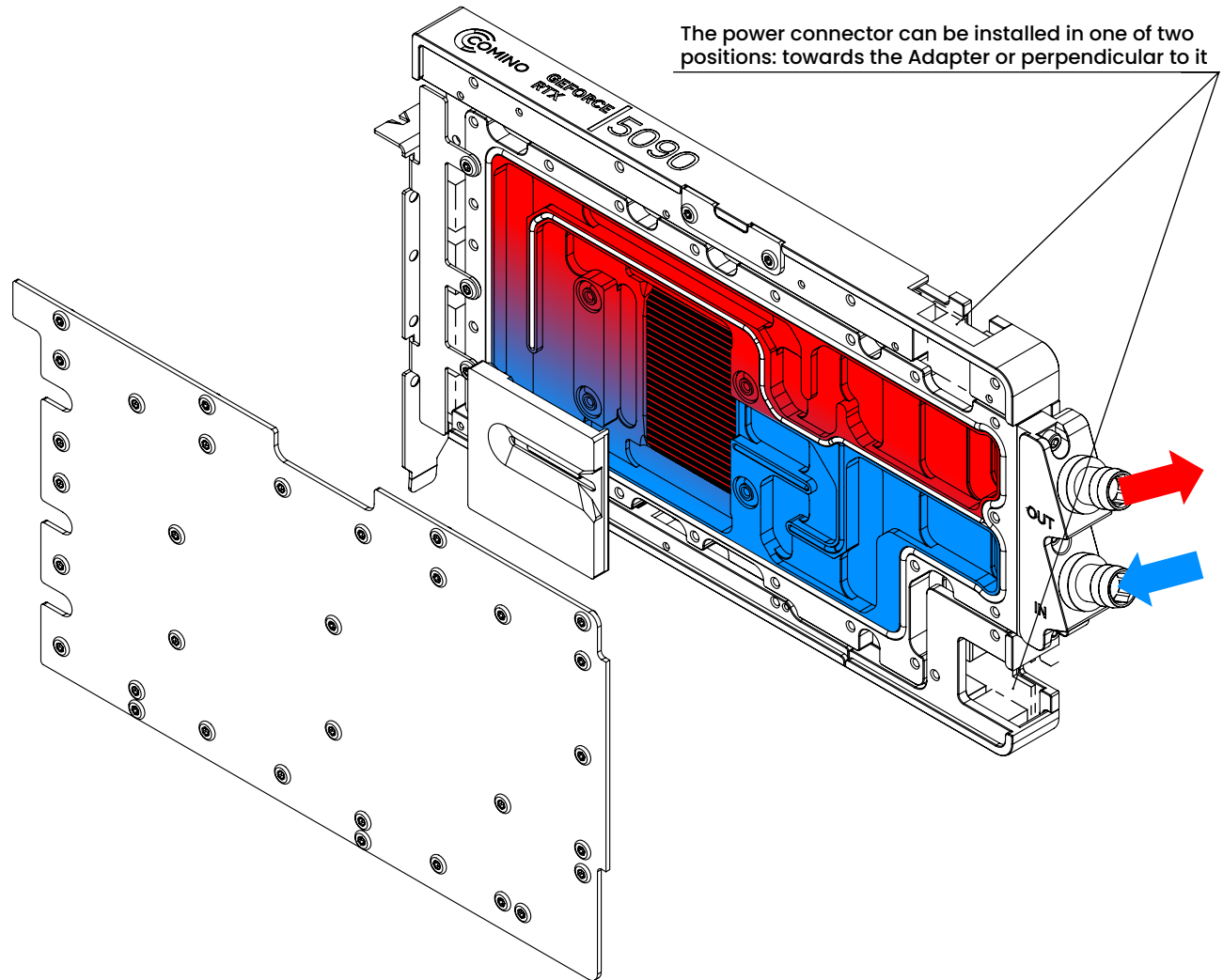
BACK





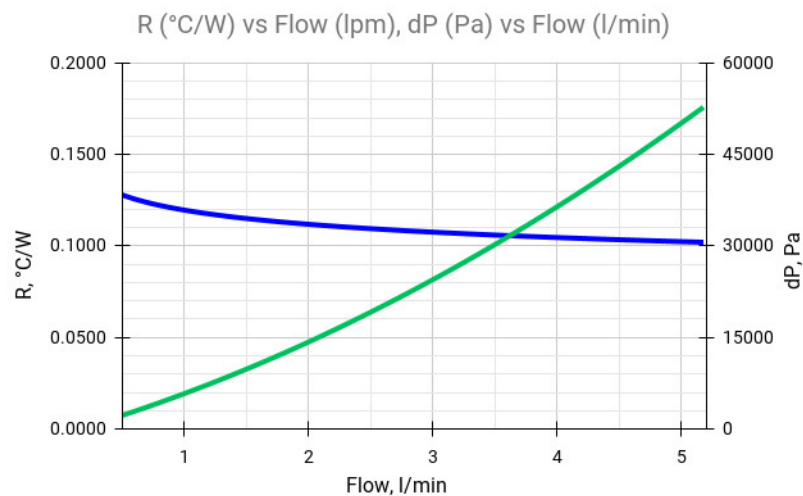
Comino waterblock technology ensures low ΔT° between the chip and inlet coolant temperatures.

- At coolant temperature of 20°C, the temperature of the chips with Comino waterblocks will be **30°–40°C**.
- The temperature of the chips with competitors waterblocks for the same coolant flow might rise up to 85°C.

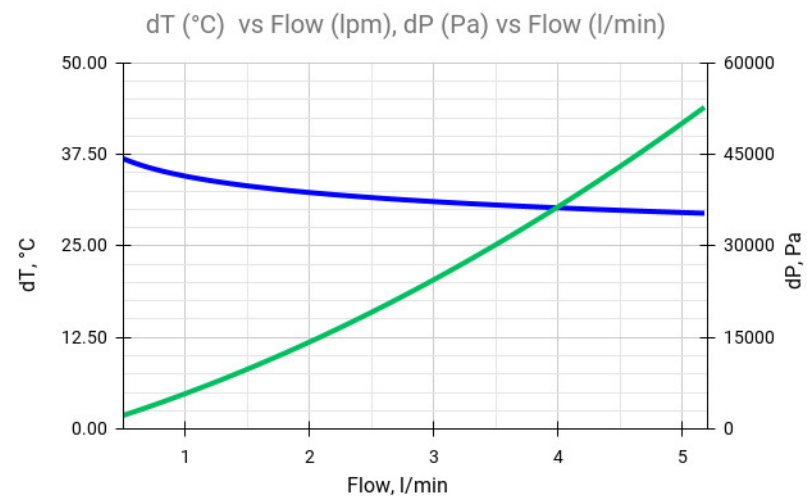


THERMAL RESISTANCE (CPU-WATER INLET), TEMPERATURE RISE AND PRESSURE DROP VS FLOW RATE

Waterblock thermal resistance ($^{\circ}\text{C}/\text{W}$) and coolant pressure drop (Pa) between inlet and outlet of waterblock vs coolant flow rate (l/min).



Temperature rise of GPU processor p-n junction relatively to coolant inlet temperature and coolant pressure drop (Pa) between inlet and outlet of waterblock vs coolant flow rate (l/min)

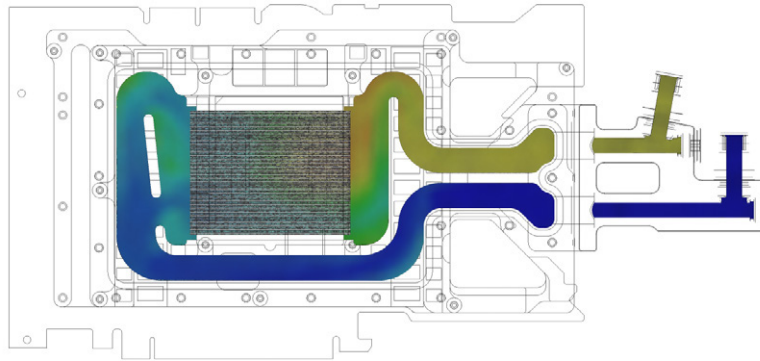
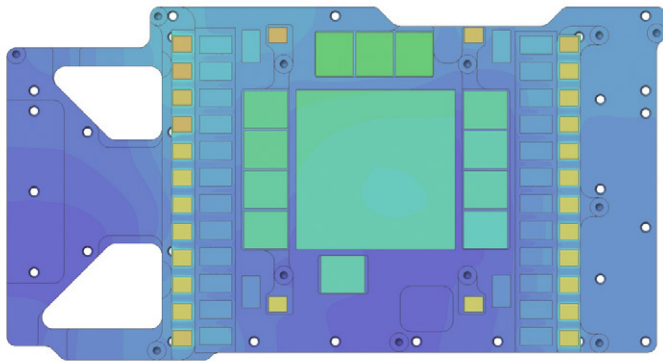


■ AMD RADEON™ PRO W7900
■ dP, Pa

WE KNOW HOW TO BEAT THE HEAT

Comino provides RnD upon request, including product design with a series of complex thermodynamic calculations and a variety of stress tests supported by thermal analysis.

- Tailored liquid-cooling system and solution for your needs.
- OEM & ODM cooperation. Thermal design, prototyping, PoC, manufacturing, QA, supply.
- Creating a unique customization of hardware components and liquid-cooling systems.
- Design & Manufacturing of devices and cooling components for range of industry applications from scratch.



ADDITIONAL INFORMATION

Check the compatibility and find the composition of the kit on the waterblock product page:

<https://faq.comino.com/en/waterblocks/main>



CONTACTS

For more product information visit: www.comino.com

Email us: info@comino.com

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