

DeltaMate

GPU Block - Suprim RTX 5090



High Performance Cooling Solutions

The DeltaMate GPU water block for selected MSI GeForce RTX 5090 graphics cards is manufactured in Germany. It features outstanding surface quality, attention to detail, and exceptional cooling performance. The two cold plates used in the water block are machined both before and after precision blasting. In the final manufacturing step, the cold plates are nickel-plated. The block features an Ultra-High-Performance cold plate with 0.2 mm microfins and is supplied with Thermal Grizzly Duronaut, Minus Pad Advance, and Putty Advance.

Ultra High Performance Full-Cover GPU Water Block for Selected MSI GeForce RTX 5090 Graphics Cards

The cooling performance of the DeltaMate GPU Block for selected MSI GeForce RTX 5090 graphics cards is primarily achieved through the optimized coolant flow design across the massive copper cooler. The cooler consists of two parts that are screwed together: the smaller core cold plate for the graphics processor and the VRM/VRAM cold plate for the video memory (VRAM) and voltage regulation modules (VRM), which together with the aluminum housing form the water block.

The VRM/VRAM cold plate is machined from high-quality copper and subsequently precision-blasted to achieve a uniform surface structure. After blasting, the contact surfaces for the VRAM and VRM are finely re-machined using CNC machining to ensure optimal heat transfer. In the final manufacturing step, the copper parts are nickel-plated.

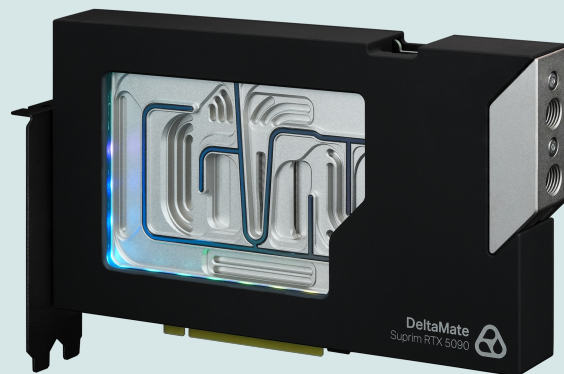
The separately manufactured Ultra-High-Performance cold plate is also precision-blasted before the GPU contact surface is finished using precise CNC machining. Thermal Grizzly's Ultra-High-Performance cold plates for CPU and GPU coolers are manufactured with minimal and highly optimized channel and fin spacing. The 0.2 mm microfins provide a large surface area for efficient heat transfer. The cold plate is CNC-machined and is not manufactured using the skiving process.

"The Oracle" PCB and RGB Lighting

The DeltaMate GPU Block - SUPRIM RTX 5090 features an integrated spacer PCB, or "dummy PCB," called the "The Oracle" PCB. The dummy PCB is matched to the compatible PCB layouts of the supported MSI GeForce RTX 5090 graphics cards and allows the alignment and fit of the water block to be checked before disassembling the graphics card. This simplifies the planning of a custom cooling loop.

The "The Oracle" PCB also serves as a template for the installation process and includes information such as the positions of screws and thermal interface materials. After installing the water block, it can also be used as a reference when reassembling the original air cooler.

The black anodized aluminum housing of the water block features integrated addressable RGB lighting that illuminates the borosilicate glass viewing window. The lighting can be controlled via a 3-pin ARGB header (+5 V/DATA/GND) on the motherboard.



Short Information

- Ultra High Performance 0.2 mm microfins
- Full-metal construction with RGB-illuminated borosilicate glass viewing window
- Targeted cooling of all VRAM and VRM components
- Modular construction with optional 4-port Through Terminal

Material

- Cold Plate Assembly: Nickel-plated copper
- Terminal: Nickel-plated brass
- Frame: Aluminum (6082)
- Backplate: Anodized aluminum
- O-Rings: EPDM
- Viewing Window: Borosilicate glass

Scope of Delivery

- **Water Block:**
 - DeltaMate GPU Block - SUPRIM RTX 5090
- **Accessories:**
 - Low-profile hex socket screw M2.5 × 4 mm, Black
 - Low-profile hex socket screw M2.5 × 6 mm, Black
 - Hex nut DIN934 M2.5, Black
 - M2.5 polyamide washer
 - Pair of latex gloves
 - 1.5 mm hex key
 - 2 mm hex key
 - 2.5 mm hex key
 - 8 mm hex key
 - TG Spatula
 - TG Spatula Pro
 - TG Putty Advance, 30 g
 - TG Duronaut, 6 g
 - 5× TG Minus Pad Advance, 1.0 mm
 - 5× TG Minus Pad Advance, 2.0 mm



Modular Design and Scope of Delivery

The DeltaMate GPU water block for selected MSI GeForce RTX 5090 graphics cards is supplied with the pre-installed DeltaMate GPU Block - Direct Terminal made of brass. The terminal features one inlet and one outlet with G1/4-inch threads.

Thermal Grizzly also offers the DeltaMate GPU Block - Through Terminal as an optional accessory available separately. It features two inlets and two outlets located on the upper and lower sides of the terminal. The scope of delivery includes all thermal interface materials (TIMs) required for installation on the GPU water block: **TG Putty Advance**, **TG Duronaut**, and **TG Minus Pad Advance in 1.0 mm and 2.0 mm**.

Compatibility

Compatible with the following graphics cards:

MSI GeForce RTX™ 5090 32G VANGUARD SOC
MSI GeForce RTX™ 5090 32G VANGUARD SOC Launch Edition
MSI GeForce RTX™ 5090 32G GAMING TRIO OC
MSI GeForce RTX™ 5090 32G SUPRIM SOC (MS-V530 Ver:2.1)
MSI GeForce RTX™ 5090 32G SUPRIM LIQUID SOC (MS-V530 Ver:2.1)

Notes

The DeltaMate GPU Block - SUPRIM RTX 5090 requires installation and is recommended for use and installation by experienced users.

DO NOT use in combination with aluminum-based water-cooling components in which the coolant comes into contact with aluminum, such as radiators with aluminum tubes.

We recommend using suitable coolants that contain biocides and corrosion inhibitors and are free from particles that could restrict coolant flow or clog the cooling loop.

Trademark Information

DeltaMate is a registered Trademark.
Thermal Grizzly is a registered Trademark.

Please note

The information provided in this technical data sheet is based on our current knowledge and experience. Due to the multitude of possible influences during use, it does not relieve processors and users of the obligation to carry out their own tests and trials. No legally binding assurance of specific properties or suitability for a particular application can be derived from the information provided.

We reserve the right to modify product specifications as a result of technical progress or operationally required further development. Our recommendations do not release users from the obligation to investigate and, where necessary, resolve any potential infringement of third-party intellectual property rights. Depending on the individual case, we recommend consulting us. Errors and omissions excepted.

Technical Data

Unit:		Value/Description:			
Dimensions					
Size		24.7 × 13.5 × 2.8cm			
Port Spacing		28mm			
Backplate Thickness		4.5mm			
Number of Slots		1.5			
Coolant Capacity		54ml			
Materials					
Coldplate Plate Assembly		Nickel-plated copper			
Terminal		Nickel-plated brass			
Viewing Window		Borosilicate glass			
Frame		Aluminum (6082)			
O-Rings		EPDM			
Other					
Lighting		Digital aRGB, 3-pin			
Coldplate		Ultra High Performance 0.2mm microfins			
Threads		2× G1/4" female threads (1/4" BSPP)			
Item number:	EAN code:	Packaging size:	*Net weight:	*Gross weight:	PU:
TG-DM-GPU-003	4260711992803	35.8 x 22.5 x 6.8cm	2370 g	3040g	1 Pc.

*The net weight is the total weight of an item excluding the weight of the packaging and accessories. The gross weight refers to the total weight of the product including accessories and packaging. Minor weight deviations may occur due to production tolerances.