

DeltaMate

CPU Block - MPII AM5




High Performance Cooling Solutions

The Thermal Grizzly DeltaMate CPU Block - MPII AM5 Black is a premium CPU water block optimized for AMD's AM5 socket. The cooler is also backward compatible with socket AM4. As part of the DeltaMate series, the cooler is designed to the highest standards and is manufactured and assembled under strict quality controls. Only the highest-quality materials are used in production to meet the demands of hardware enthusiasts and set new industry standards.

It consists of four primary components: a nickel-plated Ultra High Performance Coldplate, a solid nickel-plated brass housing, a viewing window made of borosilicate glass, and an anodized aluminum cover. Stylish RGB LED lighting highlights the elegant design of the water block when illumination is desired. The RGB LEDs can be controlled via a 3-pin ARGB header (+5V/DATA/GND) through the motherboard.

Thermal Grizzly's Ultra High Performance cold plates for CPU and GPU coolers are milled with minimal and highly optimized slot and fin widths. In the case of the DeltaMate CPU Block - MPII AM5 Black, the cold plate features a hybrid structure on the nickel-plated copper cooling plate. Above the CCDs, the slot and fin width of the 25 fins measures 0.2 mm each. This high number of thin fins provides a very large surface area on which the coolant can dissipate heat quickly and efficiently. In the upper area above the I/O die, 29 fins with a width of 0.4 mm are used for optimized flow distribution.

The G1/4-inch ports are offset toward the upper right in the solid brass housing and are designed to be especially robust. This offset arrangement also provides a clear view of the cooler structure through the borosilicate glass window. The sealing O-rings are made from high-quality EPDM rubber, providing excellent durability, elasticity, and resistance to coolants, heat, and aging for reliable performance. The included cover can be attached to the water cooler using magnets. This allows the cooler to be installed in the system in two different configurations, depending on your preference.

Scope of Delivery

- 1x DeltaMate CPU Block - MPII AM5 Black
- 1x Pressure test certificate for 1 bar
- 1x 2 mm hex key
- 1x 2.5 mm hex key
- Mounting kit

Key Information

- Ultra-high-performance premium CPU water block for AMD socket AM5
- Nickel-plated copper cooling plate with ultra-high-performance CCD microfins (0.2 mm)
- Optimized flow distribution through I/O-Die microfins (0.4 mm)
- Full-metal housing with RGB-illuminated viewing window made of borosilicate glass
- Particularly durable brass threaded inserts, including standard G1/4" ports
- Included cover for optionally concealing all screws and the mounting system
- Compatibility list available online

Technical Data

Unit:	Value/description:
Size	109.5 x 81 x 25.5 mm
Installed Thickness	33 mm
Port Spacing	28 mm
Coolant Capacity	26.5 ml

Materials	
Coldplate	Copper (Nickel Plated)
Body	Brass (Nickel Plated)
Top	Glass (Borosilicate)
Exterior	Aluminium (6082)
Gasket	EPDM

Name:	Item number:	EAN code:	Packaging size:	*Net weight:	*Gross weight:
DeltaMate CPU Block - MPII AM5	TG-DM-CPU-001	4260711992742	5.4 x 16.7 x 23cm	823g	1077g

*Net weight is the total weight of an article excluding the weight of packaging and accessories. The gross weight refers to the total weight of the product including accessories and packaging. Slight weight deviations are possible due to production factors.

In addition to optical effects in combination with the RGB LED lighting, the high-quality Schott BOROFLOAT® glass offers the advantage of being UV-resistant. As real glass, borosilicate glass is also significantly harder and more scratch-resistant compared to relatively soft acrylic glass, which can easily be scratched during cleaning or by contact. Chemical resistance (inertness) is another advantage, as real glass is not susceptible to alcohol-based cleaning agents, unlike acrylic glass.

The Thermal Grizzly DeltaMate CPU Block - MP11 AM5 Black in Testing

In Thermal Grizzly's in-house test system for CPU water blocks, the DeltaMate CPU Block - MP11 AM5 Black was able to cool the AMD Ryzen 9900X, configured with fixed power settings, to an average of 75.5 °C under full load and dissipate the resulting thermal design power (TDP) of approximately 230 watts very effectively. The flow rate was 2.5 l/min. This places the DeltaMate CPU Block - MP11 AM5 Black on the level of other top-tier CPU water blocks.

Due to the fixed power settings, the tested Ryzen 9 9900X produces almost twice the thermal design power of an unmodified 9900X, which according to AMD has a TDP of 120 watts and is on the level of the Ryzen 7 9800X3D.

Overview of the test system for CPU water blocks:

- AMD Ryzen 9900X (5.3 GHz, 1.3 Vcore, LLC Low, XMP6000 (approx. 230 watts))
- Watercool MO-RA3, including four 200 mm fans from Noctua
- Resistance-free Keyence FD-X flow sensor
- Xylem Lowara D5 pump with a pump speed of approx. 3,400 rpm
- Thermal Grizzly Kryonaut

Product-Specific Notes

- The DeltaMate CPU Block - MP11 AM5 is compatible with the AM5 High Performance Heatspreader.
- The G1/4-inch threads of the inlet and outlet ports are each 6 mm deep.

General Notes on Water-Cooling Products

- 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 suitable coolants that contain biocides and corrosion inhibitors and are free of particles that could restrict water flow or clog the loop.
- The custom water-cooling system should be leak-tested with an air pressure tester for at least 1 hour before filling.
- After filling, the system should be checked regularly during the first 24 hours for possible coolant leaks.

Quality Without Compromise: Made in Germany

The DeltaMate CPU Block - MP11 AM5 Black is manufactured at our production site in Germany in compliance with the highest quality standards. Our professionally trained staff continuously monitor the entire production chain. Particular attention is paid to the microfins, which are specially protected against contamination throughout the production process.

In addition, each DeltaMate CPU Block - MP11 AM5 Black undergoes a compressed-air test at 1 bar after assembly as part of quality control. A corresponding pressure test certificate is included.

Trademark Information

DeltaMate is a registered trademark.
Thermal Grizzly is a registered trademark.

Please Note

The data in this technical data sheet are based on our current knowledge and experience. Due to the large amount of possible factors, this should not be construed as to release the users from doing their own tests and screening.

No legally binding assurance of specific properties or applicability for a concrete purpose should be derived from these data. Please consider contacting us for further detail. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.