

STAINLESS STEEL Mycro Pro

High Performance Cooling Solutions

The Thermal Grizzly Mycro Pro Stainless Steel AMD AM4/AM5 is a CPU water block for AMD Socket AM5 and AM4. It consists of three primary components: a copper base plate, a stainless steel (S304) cooler plate, and an anodized aluminum frame. The Mycro Pro Stainless Steel AMD AM4/AM5 is connected to the custom water-cooling loop via two ports, one inlet and one outlet, with G1/4-inch threads in the stainless steel body. The sealing rings (O-rings) are made from highly elastic EPDM (ethylene propylene diene rubber), which is resistant to ozone and UV radiation.

Thermal Grizzly's Ultra-High-Performance Coldplates for CPU and graphics card water blocks are milled with minimal and highly optimized channel and fin widths. In the case of the AM5 Mycro Pro ST, the channel and fin widths on the unplated copper cold plate are each 0.2 mm. A total of 68 microfins are located on the base plate of the CPU water block. This high number of thin fins provides a very large surface area across which the coolant can dissipate heat quickly and efficiently.

The cooler plate of the Mycro Pro Stainless Steel AMD AM4/AM5 is not nickel-plated in order to provide the best possible transfer of heat from the processor to the custom water-cooling loop. Since the Mycro Pro Stainless Steel is mounted on the Integrated Heatspreader (IHS), where liquid metal is generally not used, a barrier layer formed by nickel is not necessarily required. While this slightly improves the performance of the cooler compared to a nickel-plated cooler plate, the copper may discolor due to oxidation. Omitting the nickel-plating process from the manufacturing chain also reduces the cooler's production costs, giving it an excellent price-performance ratio.

The Mycro Pro Stainless Steel AMD AM4/AM5 in Testing

In Thermal Grizzly's in-house CPU water block test system, the Mycro Pro Stainless Steel AMD AM4/AM5 was able to cool an AMD Ryzen 9 9900X configured with fixed performance parameters to an average temperature of 73.2 °C under full load while effectively dissipating approximately 230 watts of thermal output (TDP). The flow rate was 2.4 l/min. This places the Mycro Pro Stainless Steel on par with other CPU water blocks in the price-to-performance segment, while also performing well compared with high-end models. Due to the fixed performance parameters, the tested Ryzen 9 9900X generates almost twice the thermal output of an unmodified 9900X, which, according to AMD, has a TDP of 120 watts and is on a similar level to the Ryzen 7 9800X3D.



Scope of Delivery

- Mycro Pro Stainless Steel AMD AM4/AM5
- Pressure test certificate for 600 mbar
- 2 mm hex key
- 2.5 mm hex key
- Mounting kit

Short Information

- High-performance CPU water block for AMD AM4 and AM5
- Copper cold plate with Ultra-High-Performance microfins (0.2 mm)
- Inlet and outlet ports with standardized G1/4-inch threads
- Anodized aluminum frame
- Stainless steel body

CPU Water Block Test System Overview:

- AMD Ryzen 9 9900X (5.3 GHz, 1.3 Vcore, LLC Low, XMP 6000, approx. 230 watts)
- Watercool MO-RA3 including four 200 mm Noctua fans
- Keyence FD-X low-resistance flow sensor
- Xylem Lowara D5 pump with a pump speed of approx. 3,400 RPM
- Thermal Grizzly Kryonaut

Technical Data

Name:	Item number:	EAN code:	Packaging size:	*Net weight:	*Gross weight:
Mycro Pro Stainless Steel AMD	TG-MY-P-ST-001	4260711994425	121 x 157 x 43 mm	400 g	577 g

*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.

Product-Specific Notes

- The Mycro Pro Stainless Steel AMD AM4/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.
- The Mycro Pro Stainless Steel AMD AM4/AM5 is not suitable for Direct-Die use.
- The unplated copper base plate may discolor due to oxidation.
The cooler should only be handled by the anodized aluminum frame, as skin contact with the copper accelerates oxidation and the resulting discoloration.

General Information for Water-Cooling Products

- DO NOT use in combination with aluminum water-cooling components in which the coolant comes into contact with aluminum, such as radiators with aluminum tubes.
- Suitable coolants containing biocides and corrosion inhibitors are recommended. The coolant should be free of particles that could restrict water flow or clog the loop.
- Before filling, the custom water-cooling loop should be leak-tested with an air pressure tester for at least one hour.
- After filling, the system should be checked regularly for possible coolant leaks during the first 24 hours.

Trademark Information

Thermal Grizzly is a registered trademark.

Please note

The information in this technical data sheet is based on our current knowledge and experience. Due to the wide range of possible influencing factors during use, it does not release the installer or user from carrying out their own checks and tests. No legally binding assurance of specific properties or suitability for a particular intended use can be derived from the information provided.

We reserve the right to make changes to product specifications as part of technical progress or operational development. Our recommendations do not release the user from the obligation to independently check and, if necessary, resolve any potential infringement of third-party intellectual property rights. Depending on the individual case, we recommend consulting us. Subject to typographical errors.