

HAF II 500

Cooler, Quieter, Stronger

HAF II 500 represents the pinnacle of Cooler Master's airflow case lineup. Built on evolved HAF DNA, it does more than bring together two user experiences once thought incompatible - more powerful cooling and lower operating noise. It allows both to advance further and coexist at a higher level.

Powered by an unprecedented fan configuration in consumer PC cases, two Mighty40 F220 intake fans (220 × 40 mm) and one Mighty40 V180 exhaust fan (180 × 40 mm), HAF II 500 delivers industry-leading **noise-normalized cooling performance**, enabling lower component temperatures at a given system noise level.

Enabling this advanced fan configuration is a split-level layout engineered to maximize internal space utilization. In addition, with the MasterRail multi-purpose mounting system and support for versatile GPU and storage configurations, HAF II 500 fulfills Cooler Master's commitment to the FreeForm 2.0 chassis design philosophy, delivering a truly Cooler Master-signature building experience.



PRODUCT PILLARS

Thermal Excellence

The Mighty40 fan series pushes both diameter and thickness of consumer axial fans to the extreme, delivering a dramatic improvement in cooling-performance-to-noise ratio over conventional designs. This allows HAF II 500 to reduce cooling-system noise in the simplest way by using lower RPMs and fewer fans without compromising its pursuit of excellent cooling performance.

At the same time, HAF II 500 does not rely on an overly elaborate layout. Every Mighty40 fan is positioned where it can contribute most efficiently to system cooling. Less is more; simple, yet effective. This seemingly straightforward cooling philosophy is the secret behind HAF II 500's challenge for dominance in noise-normalized cooling performance.

Innovative Design

HAF II 500 brings together an unusually high concentration of industry-first designs rarely seen in consumer PC cases: a split-level structure that reallocates often-underutilized portions of cable-management space to accommodate the extraordinarily large exhaust fan; MasterRail, a sliding mounting system that allows users to conveniently install a variety of devices at the top and front of the case; and the Dual-Mode GPU Holder that uses a minimalist design to easily support different GPU configurations.

Beyond these, HAF II 500 features even more original designs for users to enjoy. The development team's engineering insight translates into a more reassuring user experience and broader creative freedom.

Multi-Role Versatility

HAF II 500 is a genuine airflow case, but far more than that.

With MasterRail, Dual-Mode GPU Holder, and Dual-Orientation HDD Cage Mounting Positions, HAF II 500 offers exceptionally rich configuration flexibility, placing it firmly within the category of competitive modular cases.

Thanks to the remarkable cooling-performance-to-noise ratio of the Mighty40 series fans, HAF II 500 still offers a wide range of configuration flexibility even when operating within a low-noise range - an objective traditionally pursued by noise-dampened cases. As a result, HAF II 500 can competently serve as a noise-dampened case.

With eight PCIe expansion slots and support for long PSUs, HAF II 500 is also well suited for workstation builds that rely heavily on PCIe expansion devices.

Community-Informed Development

The development of HAF II 500 was supported by the PC hardware community. Contributions from the community helped ensure HAF II 500's adaptability and performance in real-world scenarios.

Through close communication with key members of the PC hardware community, the development team was able to obtain timely feedback on critical designs, allowing details to be refined and mistakes to be corrected. The team also worked with an independent temperature-controlled testing lab to validate the fan design, using neutral data to safeguard the steady improvement of fan performance throughout development.

PRODUCT FEATURES

Oversized Extra-Thick Fans

A purpose-built intake-exhaust system: two Mighty40 F220 intake fans (220 × 40 mm) maximize intake airflow at a controlled noise level, while the Mighty40 V180 exhaust fan (180 × 40 mm) helps keep exhaust airflow as balanced as possible with intake airflow, relieving the long-standing exhaust bottleneck in airflow cases and redefine airflow case cooling performance.

Low Airflow Resistance Design

Large front and rear ventilation openings increase airflow throughput, reducing airflow resistance as much as possible, and therefore minimizing chassis-induced interference with fan performance and airflow paths.

Split-Level Cable Management

Zoned cable-routing space is designed around the thickness and quantity of cables routed through each area, optimizing space utilization. This creates the room needed to accommodate an oversized exhaust fan for improved cooling efficiency, while avoiding uncontrolled chassis volume growth.

MasterRail

Sliding rails and accompanying locking modules support multiple fan and radiator sizes. The thoughtful design does not obstruct the airflow path of cooling components, helping them deliver their full performance potential. Beyond fans and radiators, any device with mounting-hole layouts matching supported fan or radiator standards can also be secured to MasterRail.

Sliding Cable Cover

The integrated Sliding Cable Cover conceals cables within the centralized routing chamber and visually blends with the motherboard, helping the finished system look clean and organized. Its airflow-guiding design also reduces cable-induced airflow disruption without compromising memory cooling.

Dual-Mode GPU Holder

The Dual-Mode GPU Holder gives users the flexibility to clamp a single GPU or support two GPUs. When supporting two GPUs, each graphics card can be up to 3.6 slots (72 mm) thick.

Thermally Prioritized Airflow Divider

The Airflow Divider splits airflow from the lower intake fan into two paths. The primary airflow path is directed toward the position of a standalone GPU, the most common graphics card configuration. The secondary airflow path is guided toward the drive cage area, while still allowing air to be drawn through the ventilation openings above the PSU shroud by devices installed in the PCIe slot area.

Flexible Storage Configuration

A convertible drive cage supports both 3.5-inch and 2.5-inch drives and can be installed in different orientations depending on PSU length, providing flexible storage configurations while making efficient use of the lower chamber space.

Scientific Computing Platform Compatibility

Supports up to four dual-slot GPUs with blower-style coolers, or two open-air GPUs up to 3.6 slots (72mm) thick, with PSU clearance up to 210 mm—making it capable of supporting AI, rendering, simulation, and other GPU-compute-intensive platforms.



PRODUCT SPECIFICATIONS

Product Name			HAF II 500		
Dimension (L x W x H)		Incl. Protrusions		557 x 262 x 548 mm	
		Volume (Incl. Protrusions)		79.98 L	
Motherboard Support			Mini-ITX, Mini-DTX, Micro-ATX, ATX, CEB (ATX-Compatible Standoff Pattern), E-ATX (ATX-Compatible Standoff Pattern; Up to 310 mm Wide)		
Material		Chassis		SGCC (0.7 – 0.8 mm Thickness)	
		Panel		ABS	
		Side Panel		Tempered Glass (Left Panel); SGCC (Right Panel)	
Clearance		Cable Routing		15 – 40 mm	
		CPU Cooler		221 mm (Intel); 220 mm (AMD)	
		Power Supply		150 mm (North-South Drive Orientation); 210 mm (East-West Drive Orientation)	
		Graphics Card	Length	430 mm (With Mighty40 F220 Fans Installed)	
			Thickness	72 mm / Card When Installing 2 Graphics Cards; 40 mm / Card When Installing 4 Graphics Cards	
Dust Filters			Top / Front / Bottom (PSU)		
Expansion Slots			8		
Drive Bay Support		3.5" / 2.5"		3 / 6 (PSU Length ≤ 150 mm) ; 2 / 4 (150 mm < PSU Length ≤ 210 mm)	
Preinstalled Drive Bay		3.5" / 2.5"		3 / 6	
Fans Support		Top	3 x 120 / 140 mm, or 2 x 160 / 180 mm		
		Front	Default: 2 x 220 mm; With MasterRails: 3 x 120 / 140 mm, or 2 x 160 / 180 mm		
		Rear	1 x 180 mm		
Pre-installed Fans		Front	2 x Mighty40 F220		
		Rear	1 x Mighty40 V180		
Fan Hub		Ports	6 x PWM; 6 x ARGB		
		Total Power Capacity	54W		
Radiator Support		Top	240 / 280 / 360-120 / 360-180 mm (Conditional Support*)		
		Front	With MasterRails: 240 / 280 / 360-120 / 360-180 mm (Conditional Support**)		



PRODUCT SPECIFICATIONS

I/O Panel	Power LED	1
	USB Ports	1 x USB 3.2 Gen 2x2 Type-C; 2 x USB 3.2 Gen 1 Type-A
	Audio in / out	1 x 3.5 mm Headset Jack (Audio + Mic)
	Reset Switch	1
Warranty	Case	2 Years
	Fan	5 Years

* Maximum combined fan and radiator thickness: 58 mm
** Maximum combined fan and radiator thickness: 72 mm. Thermally Prioritized Airflow divider must be removed

FAN SPECIFICATIONS

Product Name	Mighty40 F220	Mighty40 V180
Dimension (L x W x H)	220 x 220 x 40 mm	180 x 180 x 40 mm
Rated Voltage	12 V DC	12 V DC
Max Current	0.5 A	0.3 A
Speed	200 – 1050 rpm	250 – 1370 rpm
Max Airflow	203.8 CFM	161.5 CFM
Max Pressure	3.1 mmH ₂ O	4.0 mmH ₂ O
Max Noise (at 1 m)	36 dB(A)	34 dB(A)
Bearing Type	Dual Ball Bearing	Dual Ball Bearing
Frame Material	PBT	PBT
Blade Material	LCP	LCP
Weight	500 g	425 g
Warranty	5 years	5 years



SHIPPING DETAILS

Product Number		H500G2-KGNN-S00
EAN Code	Global	4719512169537
	CN	6928968325215
UPC Code		884102141829
Net Weight		14.2 KG
Gross Weight		17.2 KG (to be verified)
Carton Dimension (L x W x H)		635 x 359 x 662 mm
Container 20 feet	With Pallet	144 PCS
	Carton / Pallet	18 Carton
	Without Pallet	162 PCS
Container 40 feet	With Pallet	324 PCS
	Carton / Pallet	18 Carton
	Without Pallet	333 PCS
Container 40 HQ	With Pallet	360 PCS
	Carton / Pallet	20 Carton
	Without Pallet	444 PCS