



Thermalright

Macho Rev. B



Technical Data

Length	152 mm (incl. fan)
Width	129 mm (incl. fan)
Height	162 mm (incl. fan)
Weight	880 g (incl. fan)
Fan dimensions	140 x 152 x 26,5 mm
Fan speed	300 - 1.300 U/min
Air flow	28,7 - 125 m³/h
Static Air Pressure	0.08 ~ 1.56 mmH ₂ O
Noise	15 - 21 dB(A)
Fan Bearing	Enhanced Hyperflow
Connector	4-Pin PWM
Heatpipes	6 x 6 mm
Max. TDP	240 W
Manufacturer Number	HR-02 Macho Rev.B
EAN Code	814256001052
Order Number	100700726

Logistical Data

Height (packing unit)	205 mm
Width (packing unit)	208 mm
Depth (packing unit)	195 mm
Gross weight (packing unit)	1.54kg
Height (shipping box)	450 mm
Width (shipping box)	420 mm
Depth (shipping box)	450 mm
Gross weight (shipping box)	14.48 kg
pcs / ctn	8
Code	814256001052
Harmonized code	84733080000
Country of origin	China



Thermalright HR-02 Macho Rev.B Multiple Heatpipe Kühler, Intel LGA 775/1366/1156/1155/1150/2011/2011-3/1151, AMD AM2/AM2+/AM3/AM3+/FM1/FM2/FM2+/AM4), TY 147A PWM Lüfter (300 - 1.300 U/min, 15 - 21 dBa, 28,7 - 125 m³/h)

Innovated – not imitated

Since its release in the summer of 2011 the Macho is the first choice for users who are looking for a high-performance and low-noise CPU-cooler. The design of the heat sink, which has been optimized for silent operation, is based on year-long experience and extensive development by our engineers. A variety of copies, which are now offered under different brand names, proves the ingenuity of our design.

We would not be the leading manufacturer worldwide, if we would stop to further improve our own products. With the Macho Rev. B we improved an already outstanding product by implementing specific improvements – true to our motto “innovate – don't imitate”.

Based on the highly acclaimed "IB-E" flagships Silver Arrow and Archon X2, the Macho Rev. B now offers a significantly enlarged, nickel-plated and highly polished base (53 x 40 mm).

Thanks to this innovation – which is usually only used in the high-end models – the cooling capacity and the advantage in performance over competing products could be further improved. Thus, the Macho Rev. B is perfectly suited to work with the current Intel Core i7 high-performance CPUs with up to 8 cores.

The optics of the Macho Rev. B has also been improvised: The copper heat pipes are in the new revision nickel plated and offer in combination with the black anodized top fin a probably unique elegant appearance.

Another novelty of the Macho Rev. B relates to the included fan. The cooler features a temperature-controlled TY 147 A fan (PWM). With a fan speed of 300 – 1,300 rpm (+/- 15%), the TY 147 A is even more silent than its predecessor (TY 147: 900 – 1,300 rpm). Thus, in normal operation the Macho Rev. B will be virtually imperceptible from the outside.

The TY 147 A fan features a low-wear “Enhanced Hyper-Flow Bearing”. The air flow of the for ultra-silent operation optimized fan varies between 28.7 and an impressive 125 m³/h, while generating a noise level of about 15 – 21 dB(A). The proven fan with its unique design features the mounting points of a conventional 120 mm fan and has a larger inner diameter than conventional 140 mm fans. The fan is fitted securely to the heatsink with the included, revised fan brackets - adhesive anti-vibration pads allow for decoupled mounting.

The original conception of the Macho has been maintained: The heat sink is aligned to the rear of the PC case in order to prevent incompatibilities when using ram modules with high-rising heat spreaders. The aluminum cooling fins are perforated by a plurality of air holes, which counteract air accumulation between the cooling fins.

The special design of the heatsink's aluminum fins allows for a particularly low air resistance. The oval air duct in the middle of the cooler provides controlled air turbulence within the heat sink, whereby the heat can be dissipated more effectively.

As with all our high performance coolers the Macho Revision B makes use of the well-proven heat pipe technology. A total of six high-performance 6 mm heatpipes provide the most efficient dissipation of the generated processor heat. The heatpipes are tightly integrated into the nickel-plated copper base plate, which guarantees the most effective heat dissipation.

A universal mounting kit is included with the HR-02 Macho Rev. B that supports all current Intel- and AMD sockets (Intel LGA775/1366/1156/1155/2011/1150/2011-3/1151 und AMD AM2/AM2+/AM3/FM1/FM2/FM2+). In addition, the cooler is equipped with mounting material for the new AMD AM4 Ryzen processors and can be mounted on the new Intel LGA 2066 processors.

Also included in the package is our Thermalright Screwdriver. With this extra-long screwdriver, which has a magnetic tip, it is very easy to install the cooler, even if the motherboard has already been mounted in the case (given that an appropriate mounting hole for the installation of the back plate is available in the motherboard tray). The installation is easy and self-explaining. An illustrated manual (English and German) is included. The equipment is completed by the excellent Thermalright Chill Factor thermal paste (blister).

