

NH-D12L

Noctua NH-D12L D-Type Premium Cooler



The NH-D12L is a low-height 120mm class CPU cooler that has been conceived to combine outstanding quiet cooling performance with superior case compatibility. At a height of only 145mm (13mm lower than Noctua's regular 120mm models), it fits many 4U enclosures as well as narrower tower cases that have been previously limited to solutions with 92mm fans. At the same time, its five heatpipe dual-tower design and state-of-the-art NF-A12x25r 120mm fan allow it to achieve a level of efficiency that surpasses many full-height 120mm models. Thanks to its single fan configuration and asymmetrical fin stacks, the NH-D12L provides 100% RAM compatibility on AMD AM4/AM5 and Intel LGA1200/LGA1700 by staying clear of the memory slots. Topped off with the renowned SecuFirm2™ mounting system, Noctua's award-winning NT-H1 thermal compound and a 6-year manufacturer's warranty, the NH-D12L is the perfect choice for applications that require serious cooling performance but cannot fit the larger NH-U12A.

145mm height for broader case compatibility

While Noctua's regular 120mm CPU coolers stand 158mm tall, the NH-D12L measures only 145mm. This allows it to fit not only a wide range of 4U rackmount server cases and many tower-style enclosures that are not wide enough for 158mm units, but also some larger Small Form Factor (SFF) and Mini-ITX chassis.

More performance at lower height

Despite its reduced height, the NH-D12L easily outperforms 92mm coolers. It can even surpass renowned 120mm units such as the NH-U12S and often comes close to Noctua's award-winning 120mm flagship model NH-U12A.

100% RAM compatibility on LGA1700/1200 and AM4/AM5

Due to its asymmetric design, the NH-D12L does not overhang the RAM slots on Intel LGA1700 (LGA17xx family)/LGA1200/LGA115x and AMD AM4/AM5 based motherboards, which ensures easy access to the modules and 100% compatibility with DIMMs that feature tall heat-spreaders or RGB lighting. On LGA2066, the rear fin stack will overhang the RAM slots on the left-hand side of the socket, so RAM modules must not exceed 45mm height.

6-year manufacturer's warranty

Noctua products are renowned for their impeccable quality and outstanding longevity. True to this legacy, the NH-D12L heatsink is built to last, and like all Noctua fans, the supplied NF-A12x25r features an MTTF rating of more than 150,000 hours. The entire package comes with a full 6-year manufacturer's warranty.

LOGISTIC DATA

Product name

Noctua NH-D12L

EAN

9010018000337

UPC

841501100338

Packaging dimensions (HxWxD)

237x185x175 mm

Weight incl. packaging

1512 g

Warranty

6 years

Packaging unit

8 pcs

Packaging dimensions / unit (HxWxD)

511x391x373 mm

Weight incl. packaging / unit

13.00 kg

SCOPE OF DELIVERY

NH-D12L Heatsink

NF-A12x25r PWM premium fan

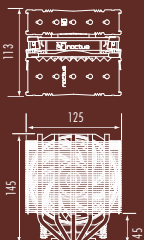
NA-RC14 Low-Noise Adaptor (L.N.A.)

NT-H1 high-grade thermal compound

Fan-clips for second NF-A12x25r

SecuFirm2™ mounting kit

Noctua metal case-badge



NH-D12L HEATSINK SPECIFICATIONS

Socket compatibility	AMD AM4, AM5 & Intel LGA1851, LGA1700, LGA1200, and LGA115x (LGA1150, LGA1151, LGA1155, LGA1156)
Dimensions	145x125x113 mm
Weight without fan	700 g
Weight with NF-A12x25r PWM	890 g
Material	Copper (base and heatpipes), aluminium (cooling fins), soldered joints & nickel plating
Fan compatibility	NF-A12x25r PWM (square-frame 120mm fans not supported)

NF-A12x25r PWM FAN SPECIFICATIONS

Dimensions	120x120x25 mm
Connector	4-pin PWM
Bearing	SS02
Blade geometry	A-Series with Flow Acceleration Channels
Frame technology	AAO
Max. input power	1.68 W
Voltage	12 V
MTTF	> 150,000 h

NF-A12x25r PWM	without adaptor	with L.N.A.
Max. rotational speed (+/-10%)	2000 RPM	1700 RPM
Max. airflow	102.1 m³/h	84.5 m³/h
Max. acoustical noise	22.6 dB(A)	18.8 dB(A)
Max. static pressure	2.34 mmH₂O	1.65 mmH₂O

Designed in Austria, Noctua's premium cooling components are internationally renowned for their superb quietness, exceptional performance and thoroughgoing quality. Having received more than 6000 awards and recommendations from leading hardware websites and magazines, Noctua's fans and heatsinks are chosen by more than a hundred thousand satisfied customers around the globe.



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