

# NH-L12Sx77

# Noctua NH-L12Sx77 L-Type Premium Cooler



The NH-L12Sx77 is a slightly taller variant of the award-winning NH-L12S, offering improved cooling performance as well as enhanced motherboard and RAM compatibility. With six instead of four heatpipes, it provides additional thermal headroom while maintaining the same default fan setup with the fan installed below the fin stack blowing upwards, which not only guarantees optimal acoustics in situations with perforated case panels right above the cooler, but also helps to exhaust hot air from the case. Due to the increased height, clearance for tall motherboard heatsinks or RAM modules could be improved significantly, yet at a height of 77mm, the NH-L12Sx77 is still compact enough to fit popular Small Form Factor (SFF/SFX) cases such as the Fractal Design Terra, Silverstone Milo ML12 or Louqe Raw S1. Topped off with the renowned SecuFirm2™ mounting system, Noctua's award-winning NT-H2 thermal compound and a 6-year manufacturer's warranty, the NH-L12Sx77 is the perfect choice for SFF builds that require strong cooling performance but cannot fit the larger NH-C14S or NH-D9L.

### Performance-enhanced low-profile cooling

With 6 instead of 4 heatpipes, the NH-L12Sx77 offers significantly more headroom for higher heat-loads compared to the original NH-L12S. As such, it is ideal for getting the most out of today's high-end CPUs in compact cases where their aggressive turbo boost modes are especially challenging to handle.

### Better performance, better compatibility

The NH-L12Sx77 not only improves performance but also motherboard and RAM compatibility versus the original NH-L12S: Due to the x77 version's taller construction, clearance for RAM modules as well as motherboard heatsinks and shrouds could be increased significantly, which makes the cooler an easy fit in most configurations.

### Ideal for Fractal Design Terra, SilverStone Milo ML12, Louqe Raw S1 and other cases

At a height of 77mm (7mm taller than the original NH-L12S' 70mm), the NH-L12Sx77 is a perfect fit for Fractal Design's Terra (with the maximum space setting for the CPU cooler) or Louqe's unique, award-winning Raw S1 chassis as well as many other cases that cannot fit the larger NH-C14S (115mm in low-profile mode) or NH-D9L (110mm).

### 6-year manufacturer's warranty

Noctua products are renowned for their impeccable quality and outstanding longevity. True to this legacy, the NH-L12Sx77 heatsink is built to last, and like all Noctua fans, the supplied NF-A12x15 features an MTTF rating of more than 150,000 hours. The entire package comes with a full 6-year manufacturer's warranty.

## LOGISTIC DATA

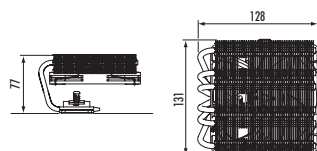
Product name	Noctua NH-L12Sx77
EAN	9010018000504
UPC	841501100505
Packaging dimensions (HxWxD)	146x182x139 mm
Weight incl. packaging	1090 g
Warranty	6 years
Packaging unit	8 pcs
Packaging dimensions / unit (HxWxD)	338x390x298 mm
Weight incl. packaging / unit	9.40 kg

## SCOPE OF DELIVERY

NH-L12Sx77 Heatsink
NF-A12x15 PWM premium fan
NA-RC7 Low-Noise Adaptor (L.N.A.)
NT-H2 high-grade thermal compound
SecuFirm2™ mounting kit
Noctua metal case-badge

## NH-L12Sx77 HEATSINK SPECIFICATIONS

Socket compatibility	Intel LGA1851, LGA1700, LGA1200, LGA1156, LGA1155, LGA1151, LGA1150 and AMD AM5, AM4
Dimensions	77x128x131 mm
Dimensions with NF-A12x15 PWM	77x128x131 mm
Weight	410 g
Weight with NF-A12x15 PWM	540 g
Material	Copper (base and heat-pipes), aluminium (cooling fins), soldered joints & nickel plating
Fan compatibility	120x120x15 mm, 120x120x25 mm



## NF-A12x15 PWM FAN SPECIFICATIONS

Dimensions	120x120x15 mm	
Connector	4-pin PWM	
Bearing	SS02	
Blade geometry	A-Series with Flow Acceleration Channels	
Frame technology	AAO	
Max. input power	1.56 W	
Voltage	12 V	
MTTF	> 150,000 h	
NF-A12x15 PWM	without adaptor	with L.N.A.
Max. rotational speed (+/-10%)	1850 RPM	1400 RPM
Max. airflow	94.2 m³/h	70.8 m³/h
Max. acoustical noise	23.9 dB(A)	16.8 dB(A)
Max. static pressure	1.53 mmH₂O	0.90 mmH₂O