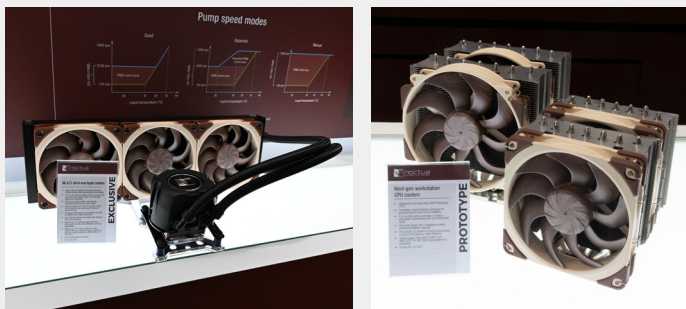




Noctua at Computex Taipei 2026

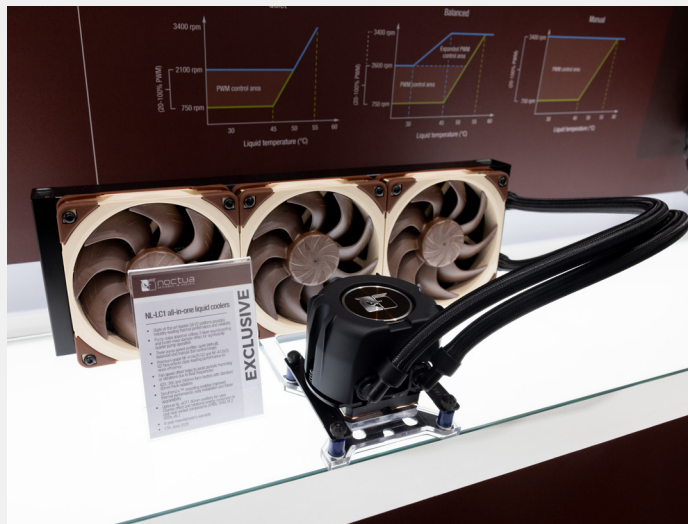
Noctua at Computex Taipei 2026



As usual, we would like to give you a brief glimpse of what we are currently working on by displaying some exclusive prototypes and providing a first sneak preview of upcoming new products:

- **NL-LC1 all-in-one liquid coolers**
- **NL-ACF1 auxiliary cooling fan**
- **Thermosiphon development project**
- **Next-gen low-profile CPU cooler for AMD AM5**
- **Next-gen workstation CPU coolers**
- **NT-CP1 AM5/4 Carbice® carbon nanotube thermal pad**
- **140mm size desk fan**
- **Next-gen Seasonic PRIME TX-1600 Noctua Edition PSU**
- **Thermal Grizzly Wire View Pro II Noctua Edition**
- **Pulsar Feinmann F01 Noctua Edition**
- **Prusament PETG Noctua Beige & Brown**
- **comma.ai comma four driver-assistance device**
- **Robert Juliat Sully 4C stage lighting**

NL-LC1 all-in-one liquid coolers



- State-of-the-art Asetek Emma V2 platform provides industry-leading thermal performance and reliability
- Pump noise absorber utilises 3-layer soundproofing and tuned-mass damper effect for significantly quieter pump operation
- Three pump speed profiles: quiet (default), balanced and manual (full control range)
- Premium-grade NF-A14x25 G2 and NF-A12x25 G2 fans ensure class-leading performance-to-noise efficiency
- Fan speed offset helps to avoid periodic humming or vibrations due to beat frequencies
- 420, 360 and 240mm form factors with standard 30mm thick radiators
- SecuFirm2+™ mounting enables improved thermal performance, easy installation and future upgradability
- Optional NL-ACF1 80mm auxiliary fan uses Coanda effect and rotational energy conversion to cool near-socket components (VRMs, RAM, M.2 SSDs, etc.)
- 6-year manufacturer's warranty
- **Current ETA: June 2026**

NL-LC1 liquid coolers

With integrated pump-noise absorber

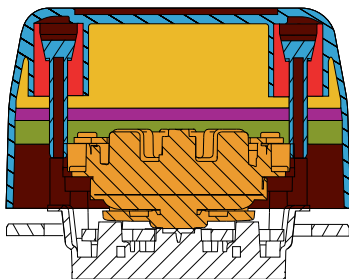
3-layer soundproofing



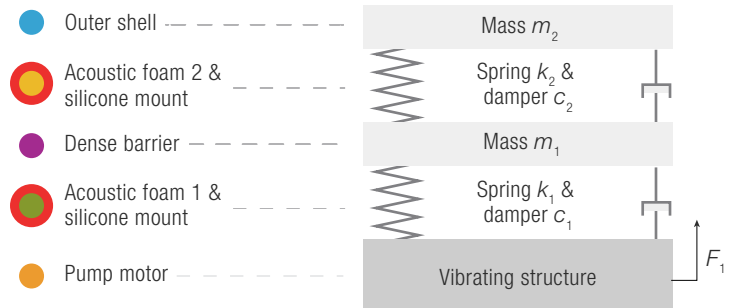
- ① **Layer 1: Acoustic foam**
Designed to absorb high-frequency sound waves, this soft, porous material acts as the initial barrier.
- ② **Layer 2: Dense sound barrier**
Serving as the core of our system, this high-density material acts as the mass component. It effectively blocks and reflects sound waves, particularly targeting the lower frequencies.
- ③ **Layer 3: Acoustic foam**
This layer complements the overall soundproofing by absorbing residual sound that penetrates the first two layers. It also helps in isolating the dense middle barrier from the final substrate.
- ④ **Floating silicone mount**
Ensuring that vibration does not bypass the central 3-layer damping structure, the floating silicone mount plays a key role in ensuring the overall effectiveness.

Tuned-mass damper

Sectional view

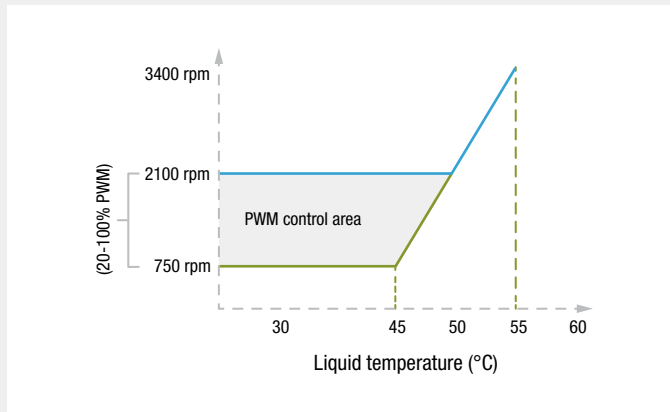


Working principle



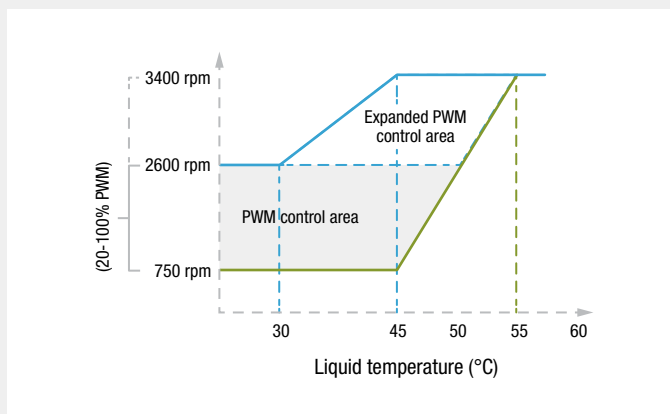
Pump speed modes

The NL-LC1 series' pump comes with an integrated mode switch that makes it possible to choose between three settings: While the pre-selected quiet mode ensures minimal noise emission, the balanced mode provides extra performance headroom, and the manual mode gives users full control over the pump's entire RPM range.



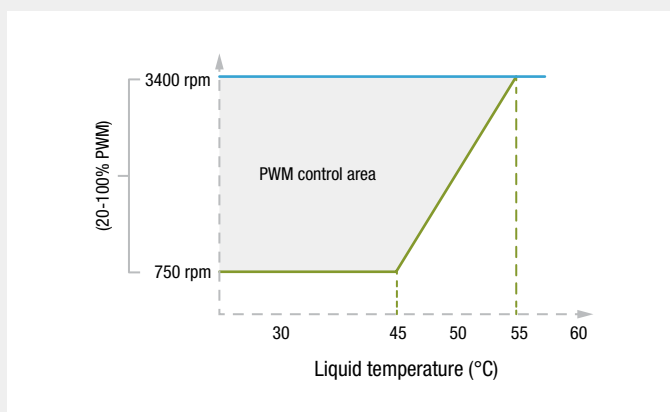
Quiet

In Quiet mode, the maximum speed of the pump is restricted to ~2100rpm (unless the safety ramp function automatically increases RPM at >45°C liquid temperature), which ensures extremely low noise emission under normal operating conditions.



Balanced

In Balanced mode, the maximum speed of the pump is limited at ~2600rpm up to 30°C liquid temperature before the control headroom starts to expand all the way to ~3400rpm at 45°C liquid temperature. This setting provides a good balance in the sense that it prevents the pump from running louder than necessary at lower liquid temperatures while offering extended performance headroom in case liquid temperatures should rise.



Manual

In Manual mode, maximum pump speed is accessible regardless of the liquid temperature, so the pump can be set to ~3400rpm even if the liquid is still at room temperature. This mode is ideal for enthusiast customers who prefer to have full control over the entire speed range and a stable PWM-to-RPM response.

— Maximum pump speed — Minimum pump speed

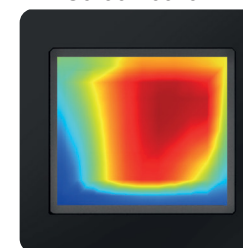
Vibration reduction



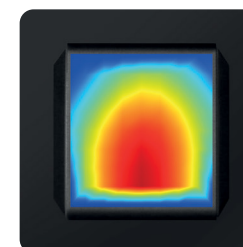
Doppler laser vibrometer measurements

In our Doppler laser vibrometer analysis, the NL-PNA1 shows both a lower maximum vibration amplitude and a more even distribution of the vibratory energy over its effective vibration area compared to pump covers with screens.

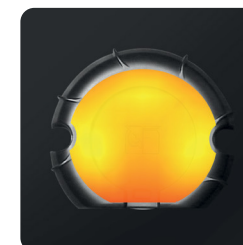
Screen cover A



Screen cover B



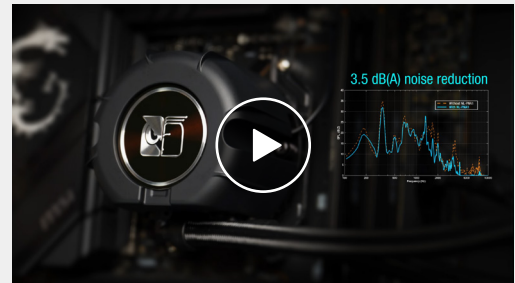
NL-PNA1



Acoustic improvements (1)

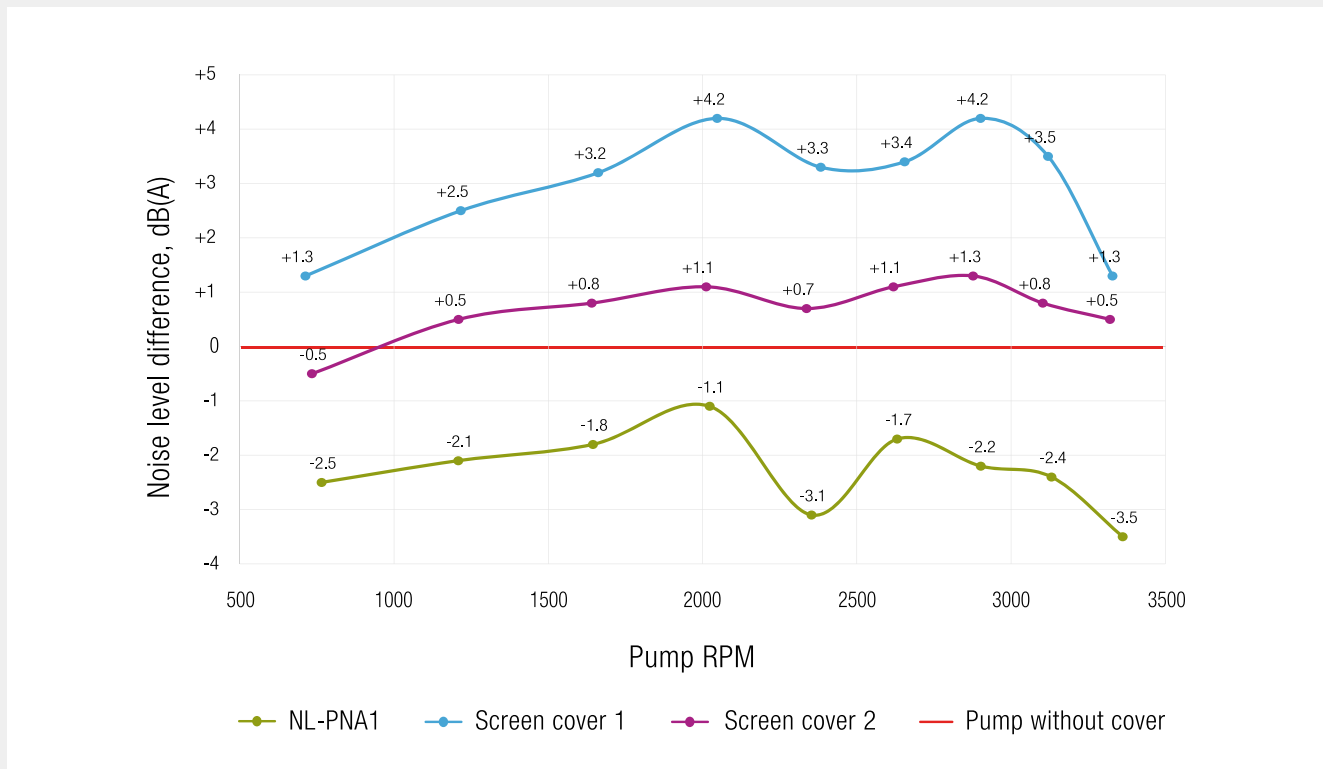
The following video shows an example of how the same pump sounds on a typical AMD AM5 setup with and without the NL-PNA1. Note that the clips were recorded in a hemi-anechoic chamber at a distance of 10cm. Due to the close measurement distance and +24dB gain added, the pump may appear louder than in typical real-world use, depending on your audio settings.

https://youtu.be/X_itUDe3AFw



SPL improvements

Acoustic performance of pump covers on Asetek Emma V2



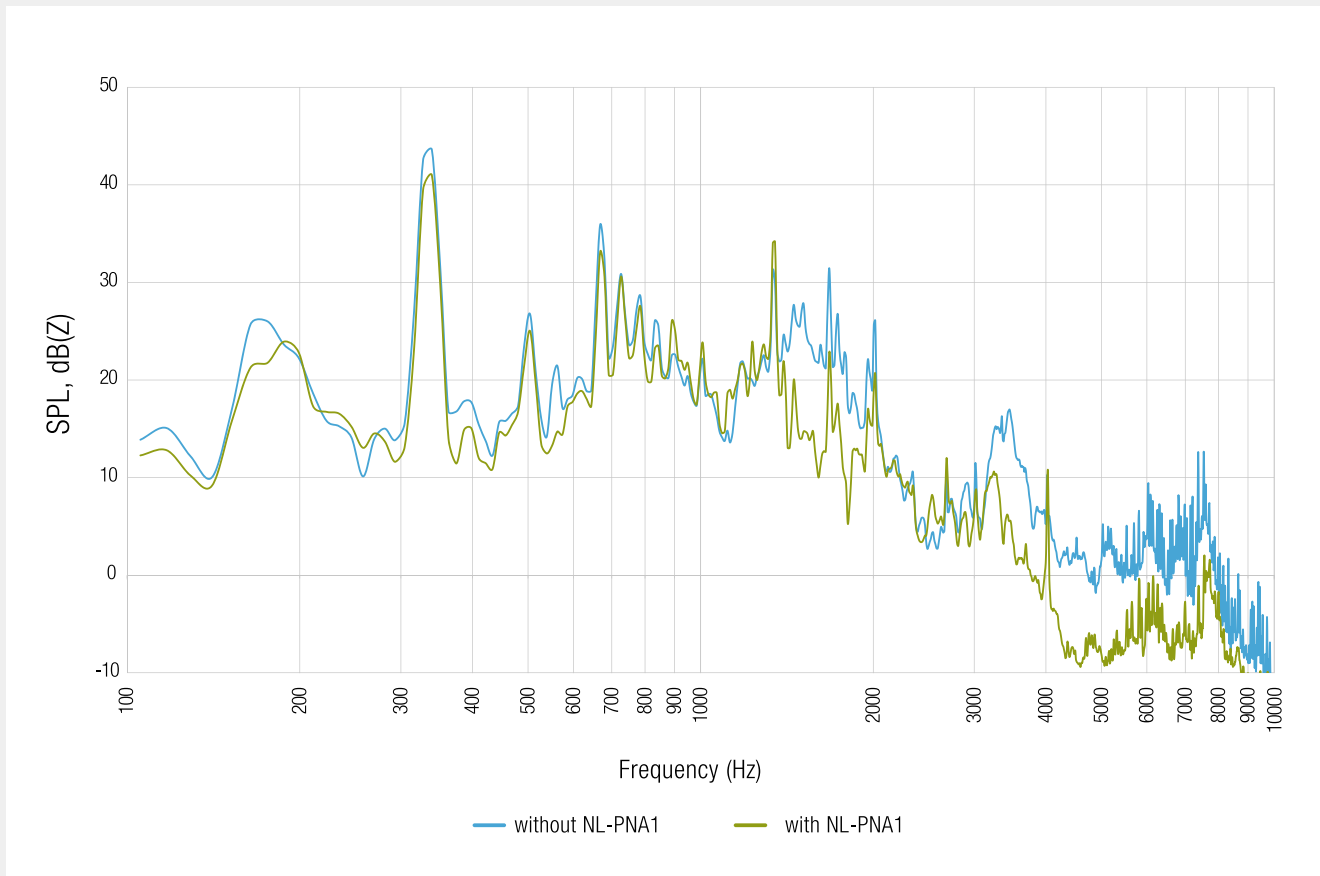
The NL-PNA1 pump noise absorber can improve acoustics both by reducing sound pressure levels (SPL) and by shifting the pump's sound signature towards lower frequency ranges that most people perceive as less distracting.

While the SPL reduction can vary depending on factors such as pump RPM, vibration transmission and installation conditions, the frequency shift observed in the video usually remains consistent even in scenarios where the SPL improvement may be small.

In terms of SPL reduction, we typically see 1-4 dB(A) lower noise levels with the NL-PNA1 installed compared to the pump without a cover. By contrast, many other pump covers actually increase rather than decrease noise levels, particularly if large screens are not decoupled from the pump and turn into noise-radiating surfaces.

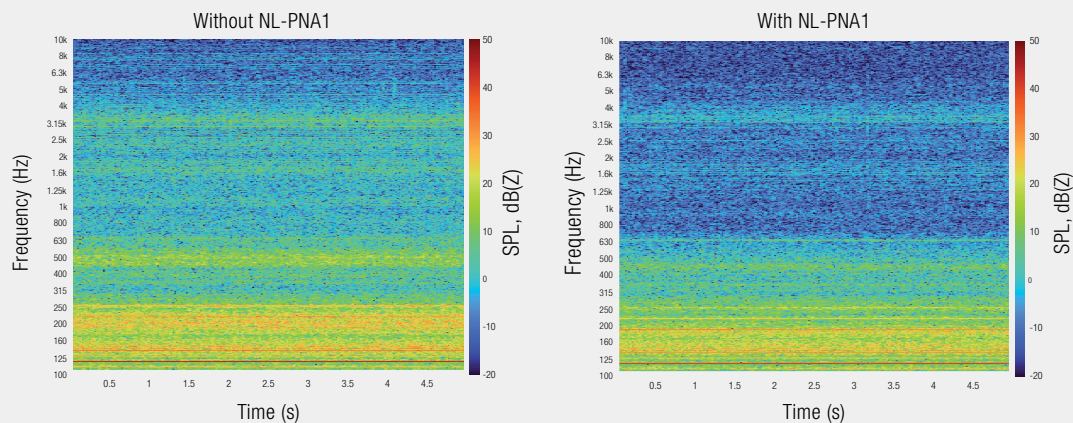
Acoustic improvements (2)

Frequency spectrum with and without NL-PNA1 (100% pump speed)



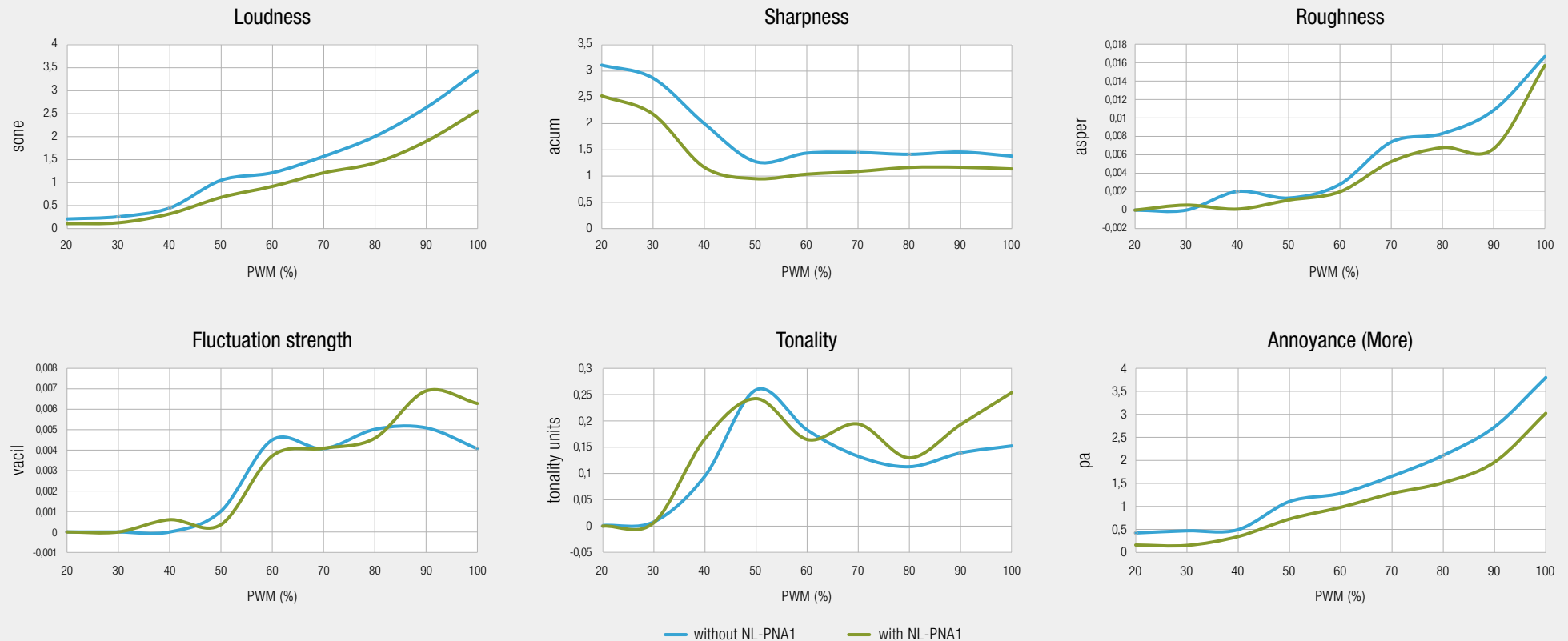
In addition to reductions in total sound pressure levels, the NL-PNA1 provides especially strong damping in the higher frequency ranges and thereby shifts the entire sound signature of the pump towards lower frequencies that most human listeners perceive as more pleasant.

This shift in tonal characteristics is clearly visible when looking at the frequency spectrum with and without NL-PNA1. As can be seen from the FFT chart at 100% speed, the NL-PNA1 is particularly effective in damping frequencies above, at this RPM speed, 1,400 Hz.



Psychoacoustic analysis

We have validated the acoustic improvements achieved with the NL-PNA1 according to psychoacoustic criteria such as loudness, sharpness, roughness, tonality and annoyance. Tested on an same AMD AM5 setup installed in an Antec Flux Pro Noctua Edition chassis, most key parameters except for tonality showed consistent improvements across most of the RPM range, which resonates well with the spectral analysis and subjective listening impressions.



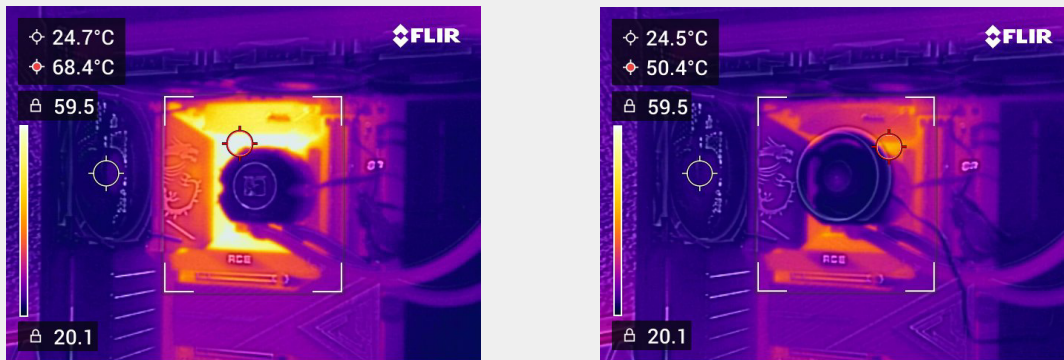
NL-ACF1 auxiliary cooling fan



- Provides additional airflow around the CPU socket area to improve cooling for near-socket components such as VRMs, RAM or M.2 SSDs
- Compatible with all NL-LC1 series all-in-one liquid coolers (NL-LC1-24, NL-LC1-36, NL-LC1-42)
- Easy installation through magnetic snap-on attachment
- Large NF-A8 80mm fan delivers superior flow rates while running extremely quiet, PWM support for automatic speed control or manual adjustment
- Custom-engineered frame design leverages the Coandă effect to draw more air outwards to reduce component temperatures
- Premium-grade SS02 fan bearing and MTTF rating of more than 150,000 hours guarantee outstanding longevity
- **Current ETA: June 2026**

NL-ACF1 performance preview

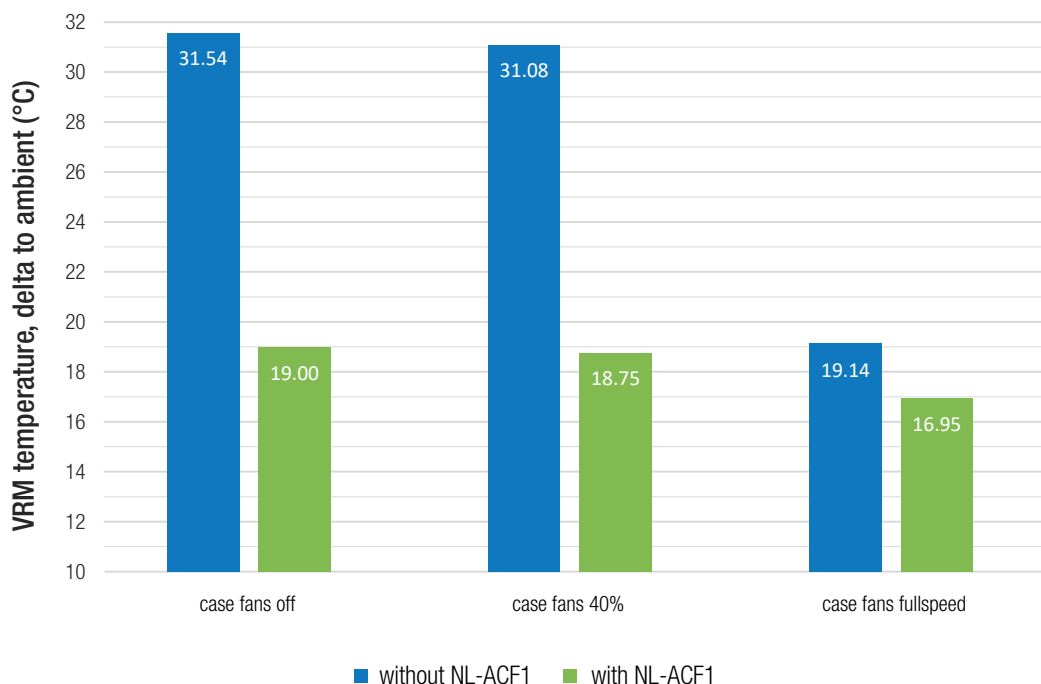
The NL-ACF1 is an optional auxiliary cooling fan for NL-LC1 liquid coolers. It provides extra airflow to near-socket components such as VRMs, M.2 SSDs or RAM. The following thermographic images illustrate how the entire near-socket area can heat up in a scenario with limited case ventilation and how the NL-ACF1 can help to cool things down:



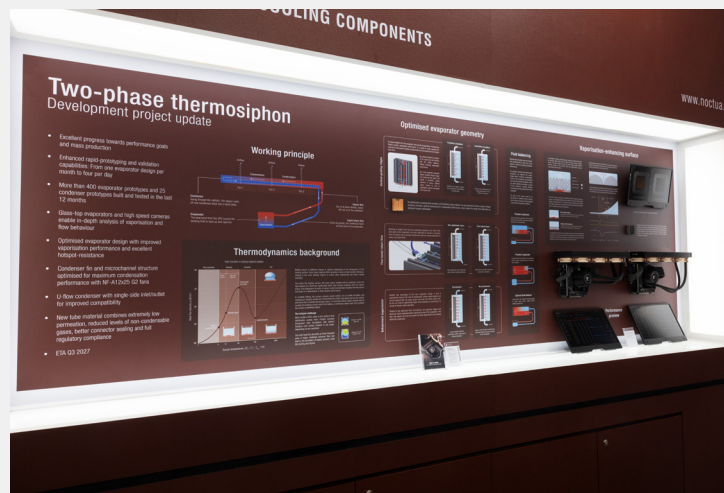
While near-socket components on modern motherboards may not require additional cooling per se, providing extra airflow to them makes it possible to keep them at the same temperature levels while reducing the RPM speed of your case fans. Since the NL-ACF1 runs extremely quiet, this can enable a reduction in total system noise levels.

In our test setup using an AMD Ryzen 9 7950X processor, an MSI X670E Carbon motherboard and the NL-LC1-36 liquid cooler with the radiator installed in the top of the Antec Flux Pro Noctua Edition, we have been able to keep the Voltage Regulator Modules at the same temperature level while reducing the case and radiator fan speed from 100% to 40%:

VRM temperatures with and without NL-ACF1

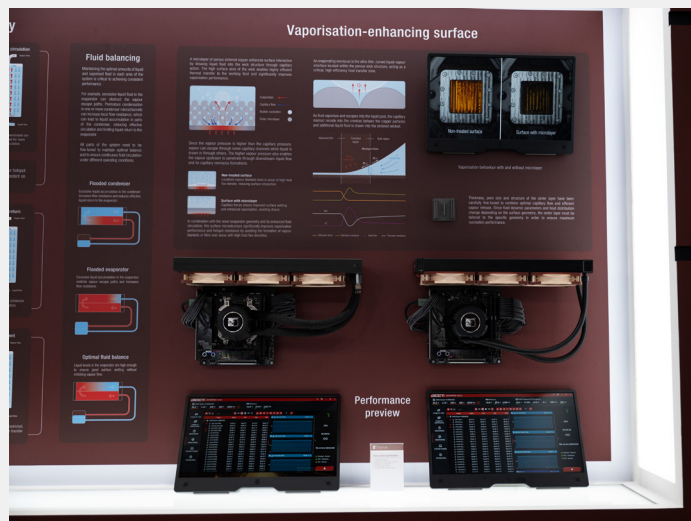


Thermosiphon development project



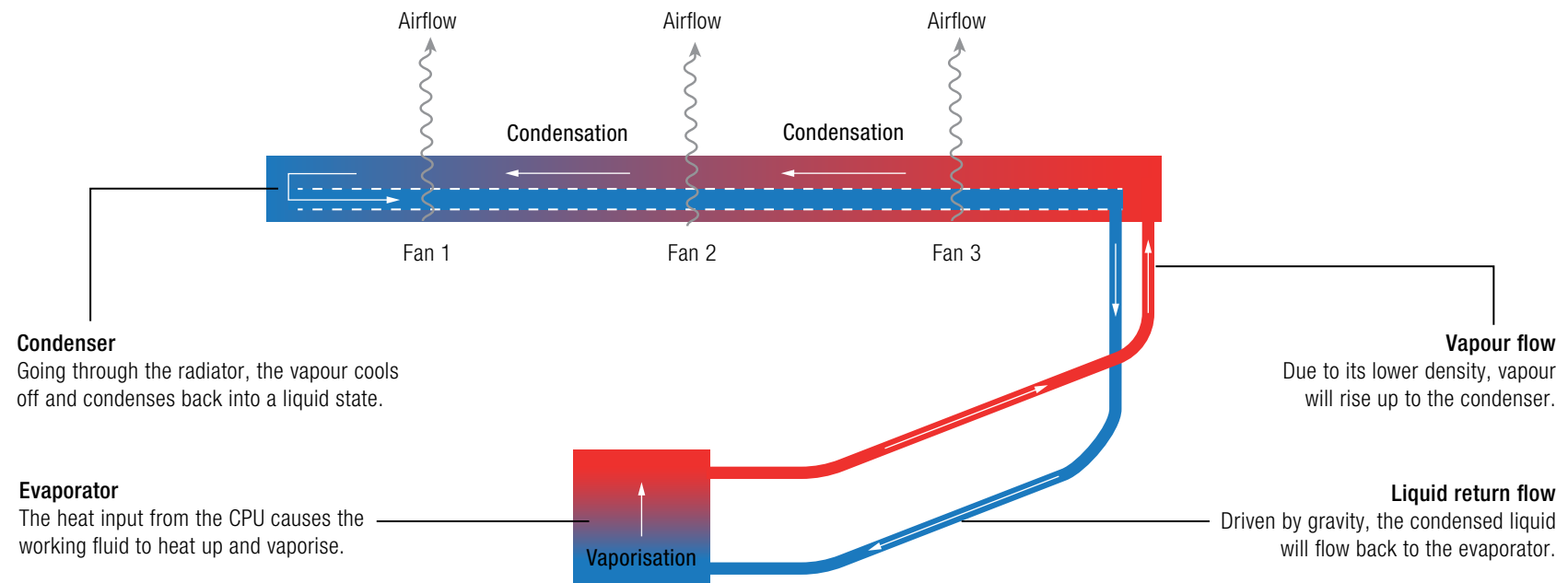
- Two-phase thermosiphon CPU cooler with flexible tubing
- Exclusive development partnership with Calyos, an expert in developing and supplying two-phase cooling solutions for aviation, renewable energy and automotive industries
- Development target: Providing the form factor, convenience and performance levels of all-in-one water cooling solutions without moving parts
- No pump noise or vibration, ultimate reliability!
- Flexible tubes for easy installation and broad compatibility
- 360mm form factor for top-exhaust position mounting (gravity-dependent operation)

Status update

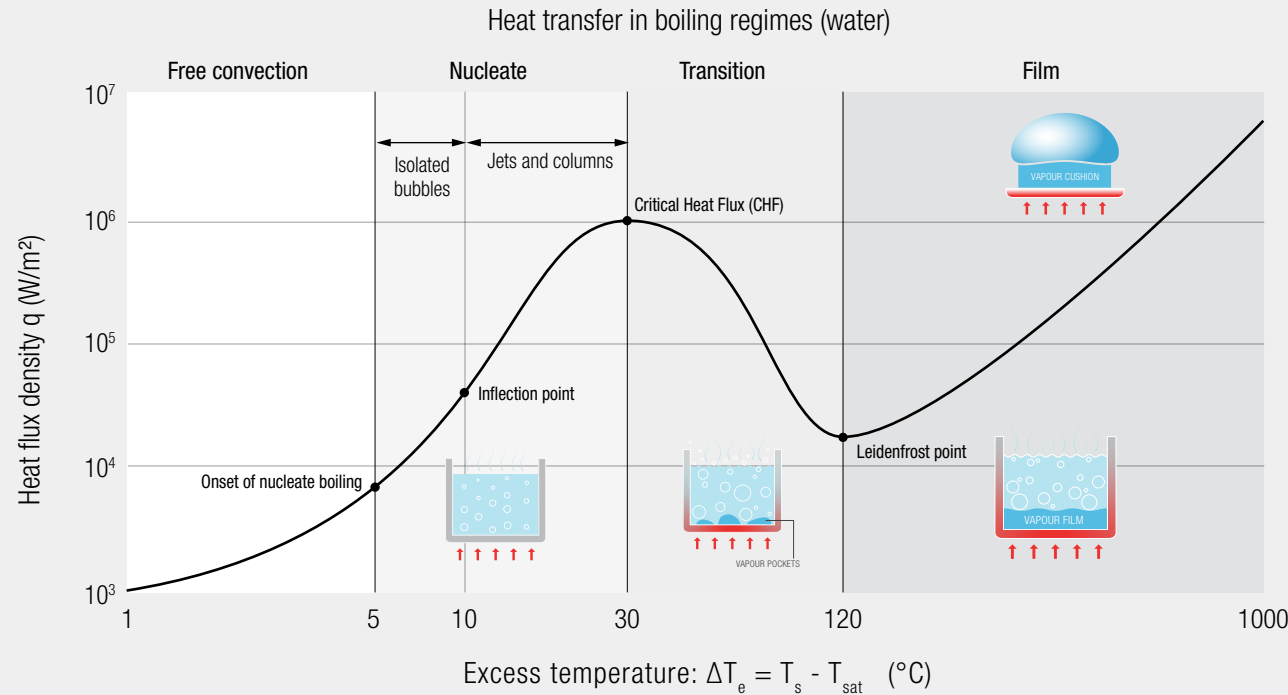


- Excellent progress towards performance goals and mass production
- Enhanced rapid-prototyping and validation capabilities: From one evaporator design per month to four per day
- More than 400 evaporator prototypes and 25 condenser prototypes built and tested in the last 12 months
- Glass-top evaporators and high speed cameras enable in-depth analysis of vaporisation and flow behaviour
- Optimised evaporator design with improved vaporisation performance and excellent hotspot-resistance
- Condenser fin and microchannel structure optimised for maximum condensation performance with NF-A12x25 G2 fans
- U-flow condenser with single-side inlet/outlet for improved compatibility
- New tube material combines extremely low permeation, reduced levels of non-condensable gases, better connector sealing and full regulatory compliance
- **Current ETA: Q3 2027**

Two-phase thermosiphon cooler working principle



Thermodynamics background



Boiling occurs in different phases or regimes depending on the temperature of the heating surface. Since these regimes differ severely in terms of heat transfer efficiency, staying in the most efficient regime is critical when engineering two-phase cooling solutions.

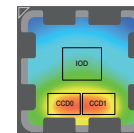
The hotter the heating surface, the more vapour bubbles will be produced. Since the liquid phase of a fluid has significantly better heat transfer properties than the vapour phase, this progressive increase in vapour content increasingly insulates the heat source and leads to a deterioration in heat transfer performance.

In nucleate boiling, the surface remains mostly wetted, but as bubble formation and coalescence intensify toward the Critical Heat Flux (CHF), less liquid reaches the surface and more heat is transferred through vapour. In transition boiling, vapour pockets start to insulate the heating surface and in film boiling, a continuous vapour layer fully insulates the surface (Leidenfrost effect).

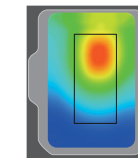
The hotspot challenge

Most modern CPUs show a non-uniform heat distribution across their contact surfaces (Integrated Heat Spreaders) with distinct hotspots over certain chiplets or die areas, depending on the workload.

The high heat flux densities at these hotspots pose a major challenge because they can lead to the formation of vapour pockets, local film boiling and dryout.



Hotspot of an AMD AM5 CPU

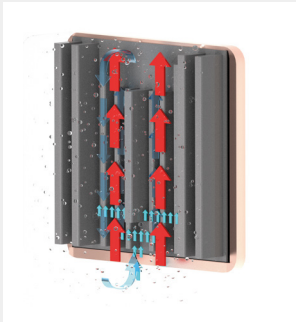


Hotspot of an Intel LGA1851 CPU

Optimised evaporator geometry

Vertical guiding ridges

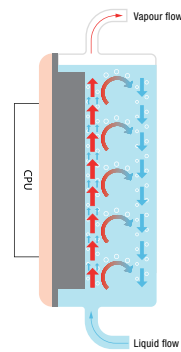
As vapour bubbles rise in the evaporator, they also lift up liquid fluid. To achieve the highest possible vaporisation performance, it is crucial to neatly separate the upstream of rising vapour bubbles and liquid fluid from the liquid fluid that circulates back down.



By contrast, turbulent circulation of the liquid fluid will interfere with the steady upstream, thereby reducing vaporisation performance.

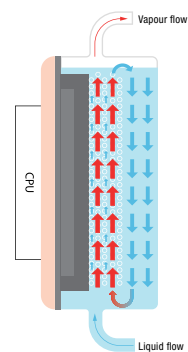
Our novel evaporator geometry utilises vertically aligned ridges and dedicated flow paths that enable a controlled, guided upstream of vapour, efficient vapour release as well as predictable, guided recirculation of the liquid fluid.

Turbulent circulation



Upstream and vapour release are disrupted by recirculation of liquid fluid.

Controlled circulation

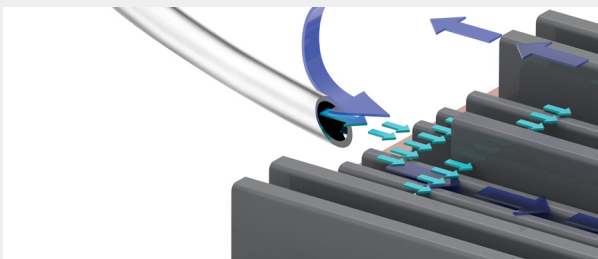


Upstream and downstream are neatly separated for more efficient circulation.

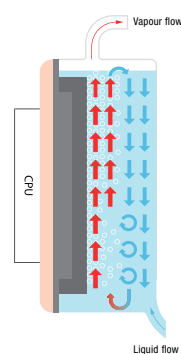
By significantly increasing fluid circulation and facilitating vapour release, the new geometry achieves superior hotspot resistance through a general enhancement in vaporisation performance, which makes the design less dependent on dedicated hotspot-optimisation.

Fine-tuned return flow

Working in tandem with the new evaporator geometry, the return flow inlet path to the evaporator has been optimised to enhance controlled fluid circulation and to prevent interference with the steady upstream of vapour and liquid fluid.

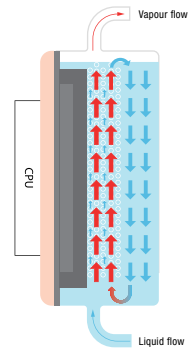


Non-optimised return



Non-optimised return flow inlet path disrupts steady upstream.

Fine-tuned return



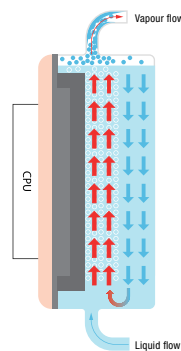
Return flow inlet path enhances controlled circulation.

Entrainment suppression

Another key advantage of the new evaporator design is that it significantly reduces the risk of entrainment, where liquid droplets are carried upward with the vapor stream and enter the outlet vapour line. As this can lead to significantly higher fluid impedance, preventing it is crucial to ensure stable operation.

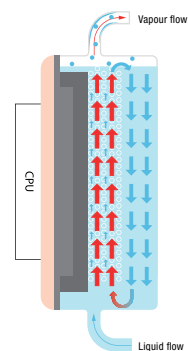
Thanks to the optimised fluid recirculation, the upstream vapour and liquid are neatly separated when reaching the top of the evaporator. This way, only vapour will enter the outlet line while liquid fluid is recirculated within the evaporator.

Entrainment



Liquid droplets clog the evaporator outlet, reducing its efficient diameter.

No entrainment



Vapour outlet remains unrestricted, ensuring maximum vapour transfer to the condenser.

Fluid balancing

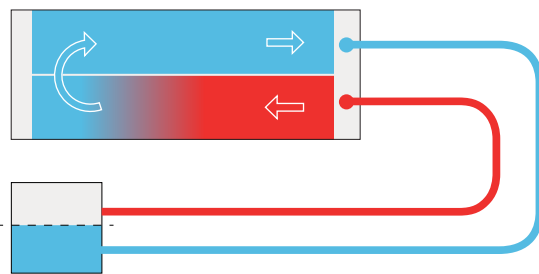
Maintaining the optimal amounts of liquid and vaporised fluid in each area of the system is critical to achieving consistent performance.

For example, excessive liquid fluid in the evaporator can obstruct the vapour escape paths. Premature condensation in one or more condenser microchannels can increase local flow resistance, which can lead to liquid accumulation in parts of the condenser, reducing effective circulation and limiting liquid return to the evaporator.

All parts of the system need to be fine-tuned to maintain optimal balance and to ensure continuous fluid circulation under different operating conditions.

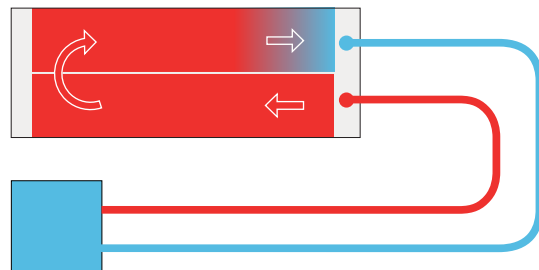
Flooded condenser

Excessive liquid accumulation in the condenser increases flow resistance and reduces effective liquid return to the evaporator.



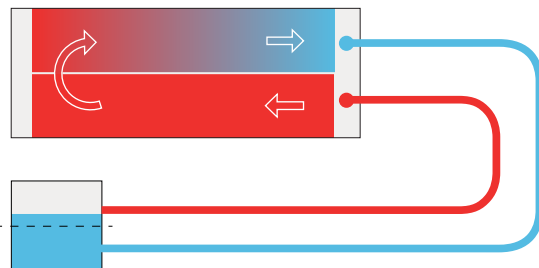
Flooded evaporator

Excessive liquid accumulation in the evaporator restricts vapour escape paths and increases flow resistance.



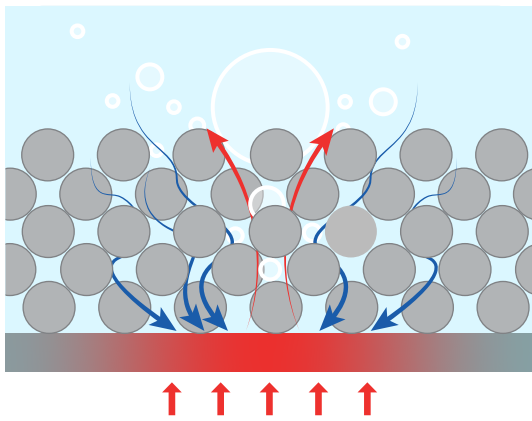
Optimal fluid balance

Liquid levels in the evaporator are high enough to ensure good surface wetting without inhibiting vapour flow.



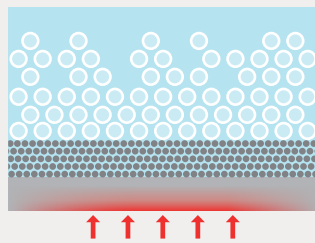
Vaporisation-enhancing surface (1)

A microlayer of porous sintered copper enhances surface interaction by drawing liquid fluid into the wick structure through capillary action. The high surface area of the wick enables highly efficient thermal transfer to the working fluid and significantly improves vaporisation performance.

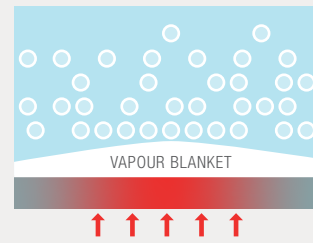


Since the vapour pressure is higher than the capillary pressure, vapour can escape through some capillary channels while liquid is drawn in through others. The higher vapour pressure also enables the vapour upstream to penetrate through downstream liquid flow and its capillary meniscus formations.

- Evaporation
- Capillary flow
- Bubble nucleation
- Sinter microlayer



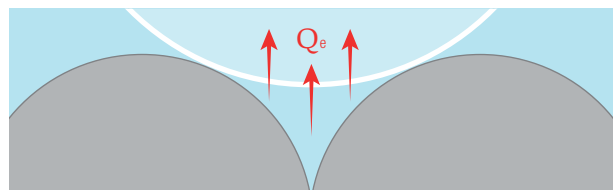
Surface with microlayer
Capillary forces ensure improved surface wetting and enhanced vaporisation, avoiding dryout.



Non-treated surface
Localised vapour blankets form in areas of high heat flux density, reducing surface interaction.

In combination with the novel evaporator geometry and its enhanced fluid circulation, this surface microstructure significantly improves vaporisation performance and hotspot resistance by avoiding the formation of vapour blankets or films over areas with high heat flux densities.

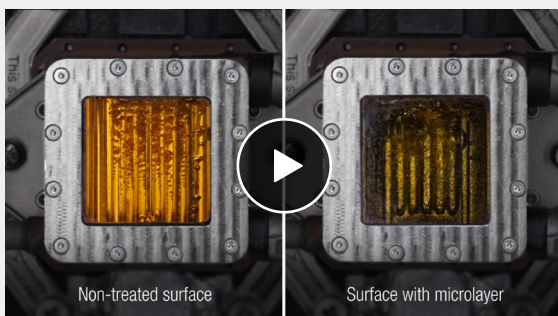
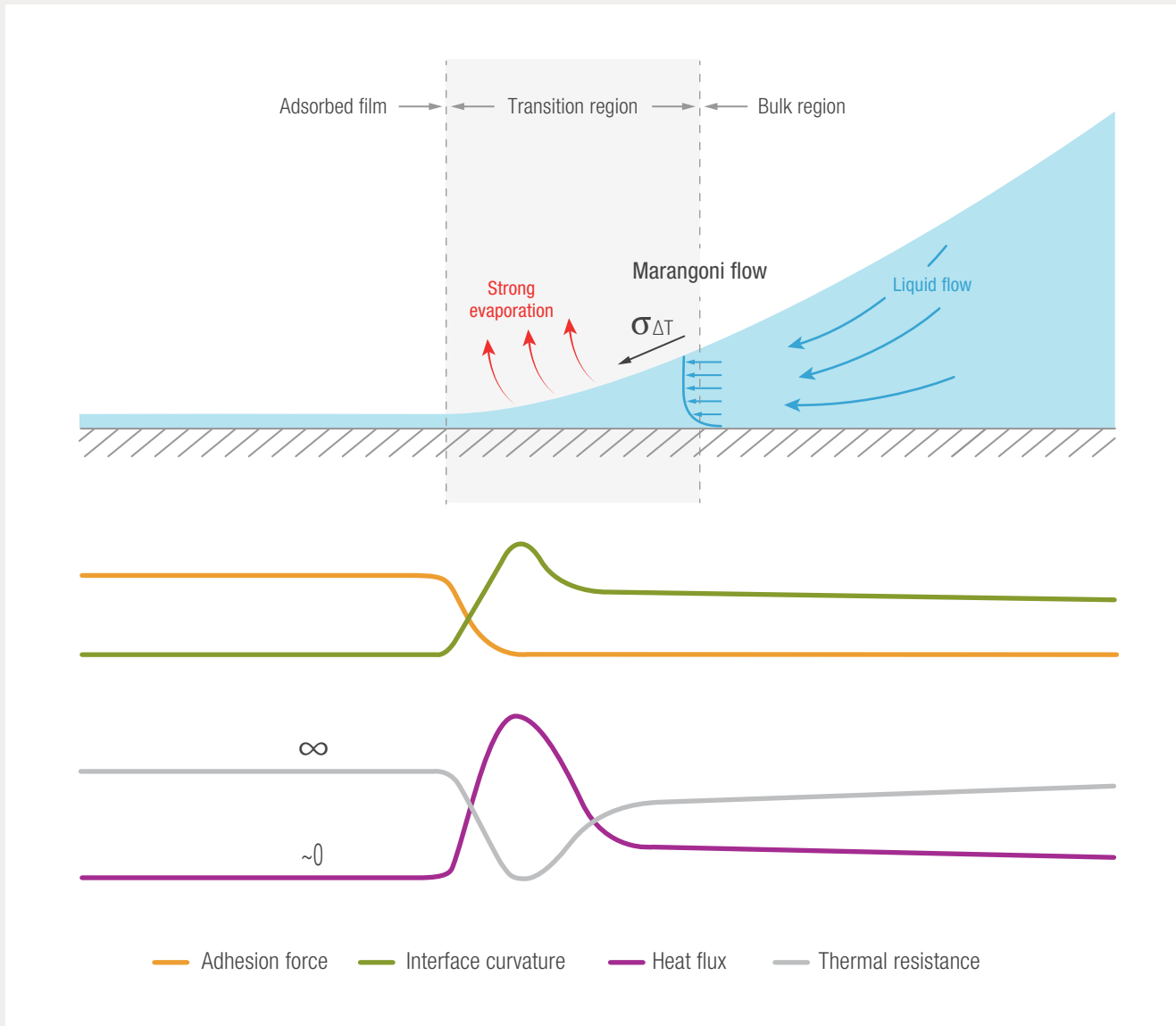
An evaporating meniscus is the ultra-thin, curved liquid-vapour interface located within the porous wick structure, acting as a critical, high-efficiency heat transfer zone.



Vaporisation-enhancing surface (2)

As fluid vaporises and escapes into the liquid pool, the capillary menisci recede into the crevices between the copper particles and additional liquid fluid is drawn into the sintered wicked.

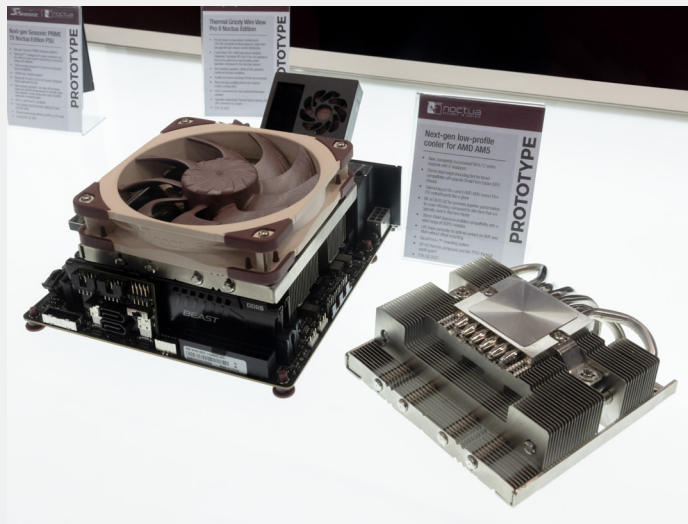
Evaporating meniscus



Thickness, pore size and structure of the sinter layer have been carefully fine-tuned to combine optimal capillary flow and efficient vapour release. Since fluid dynamic parameters and heat distribution change depending on the surface geometry, the sinter layer must be tailored to the specific geometry in order to ensure maximum nucleation performance.

This video demonstrates the improvement in vaporisation performance enabled by the sintered microlayer: <https://youtu.be/YZFoONNXLOY>

Next-gen low-profile CPU cooler for AMD AM5



- New, completely reconceived NH-L12 series heatsink with 6 heatpipes
- 70mm total height (including fan) for broad compatibility with popular Small Form Factor (SFF) chassis
- Tailored layout fits current AMD AM5-based Mini-ITX motherboards like a glove
- NF-A12x25 G2 fan provides superior performance-to-noise efficiency compared to slim fans that are typically used in this form factor
- 35mm RAM clearance enables compatibility with a wide range of DDR5 modules
- LBC base convexity for optimal contact on AM5 and AM4 without offset mounting
- SecuFirm2+™ mounting system
- NT-H2 thermal compound and NA-TPG1 thermal paste guard
- Current ETA: Q2 2027

Next-gen workstation CPU coolers



- Designed for next-generation AMD Threadripper CPUs
- Completely revised heatsink architecture for enhanced performance and compatibility
- Front-to-back airflow orientation on today's workstation motherboards with horizontal socket layout
- Dual tower design with 7 heatpipes provides enhanced dissipation capacity
- NF-A14x25r G2 and NF-A12x25 G2 fans provide superior performance-to-noise efficiency
- Socket support: Intel LGA4710/4677 and AMD sTR5, TR4, SP3, SP6, future platforms in preparation
- Current ETA: Q2 2027

NT-CP1 AM5/4 Carbice[®] carbon nanotube thermal pad

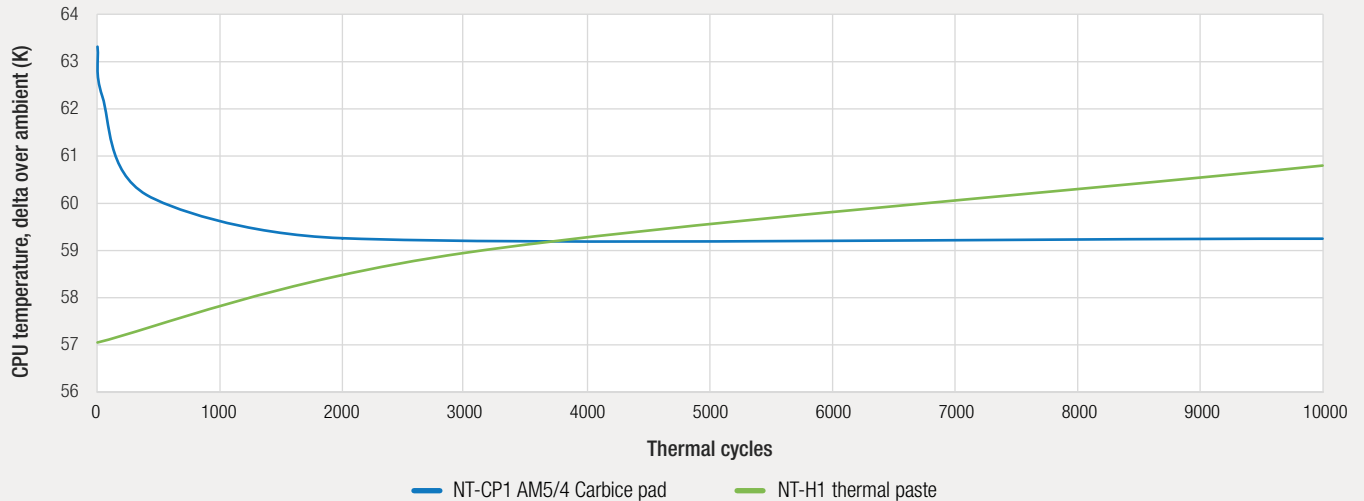


- Superior long-term performance compared to thermal pastes and phase-change pads
- No degradation effects such as pump-out, dry-out, delamination or cracking
- No need for maintenance or replacement, tested for more than 100K thermal cycles
- Space-grade reliability: used in satellites, spacecraft and critical infrastructure
- Vertically aligned carbon nanotube forests reinforced with an aluminium backbone that makes the pads more robust than other carbon or graphite-based solutions
- Nanoscale polymer coating makes the pad's contact surfaces electrically non-conductive before use and prevents slippage during installation
- Easy “peel and stick” installation and effortless removal
- Tailored for AMD AM5 and AM4 processors
- Current ETA: September 2026

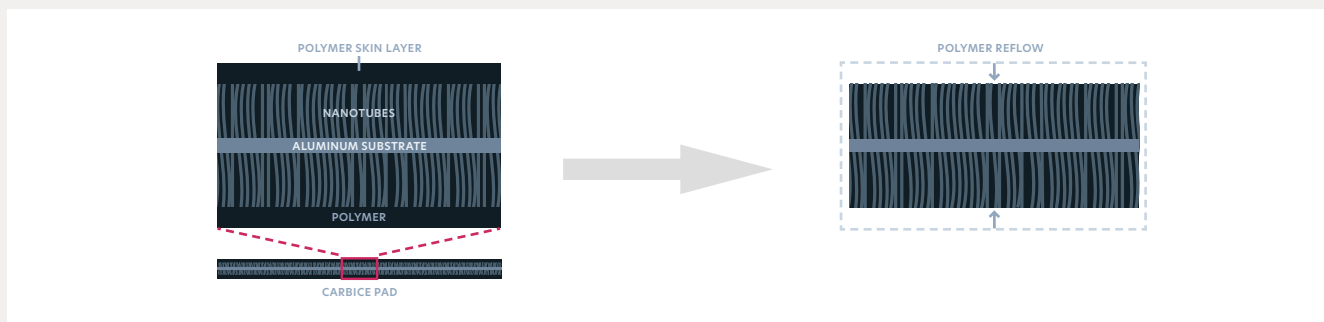
NT-CP1 AM5/4 performance preview

While thermal pastes and most other thermal pads gradually lose performance over time due to pump-out, delamination, cracking pads keep improving their performance over hundreds and thousands of thermal cycles. This is possible thanks to the pad's robust mechanics and carbon nanotubes that incrementally conform to surface microstructures, enhancing the heat transfer rate with time and thermal cycling.

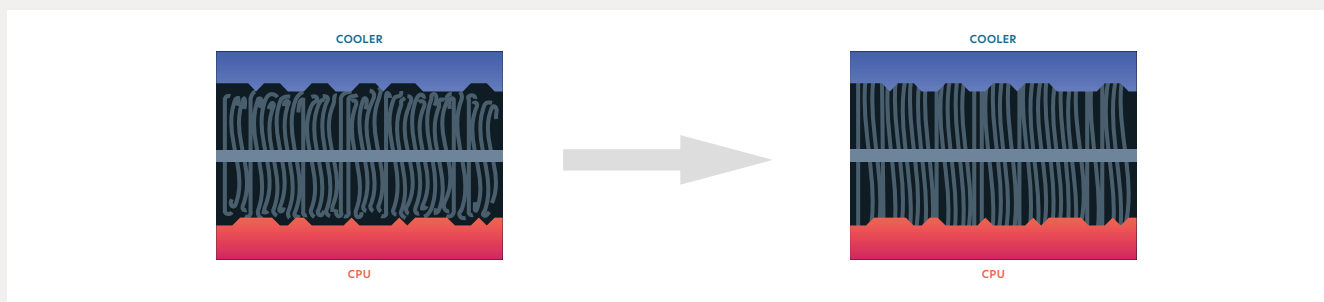
Long-term TIM performance on AMD Ryzen 9 9950X (180W, NH-D15 G2 LBC)



Freshly applied, the NT-CP1 Carbice pad requires a short initial activation phase for the polymer layer to reflow and appropriately wet the contact surfaces. In our testing, this occurred after a handful of thermal cycles and caused a first temperature drop of around 1K.






Once the polymer layer reflow has occurred, performance will continue to improve as individual carbon nanotubes slowly wick into surface microcavities. In our testing, we saw another temperature drop of around 2K after around 350 cycles before temperatures stabilised at around 2000 cycles.

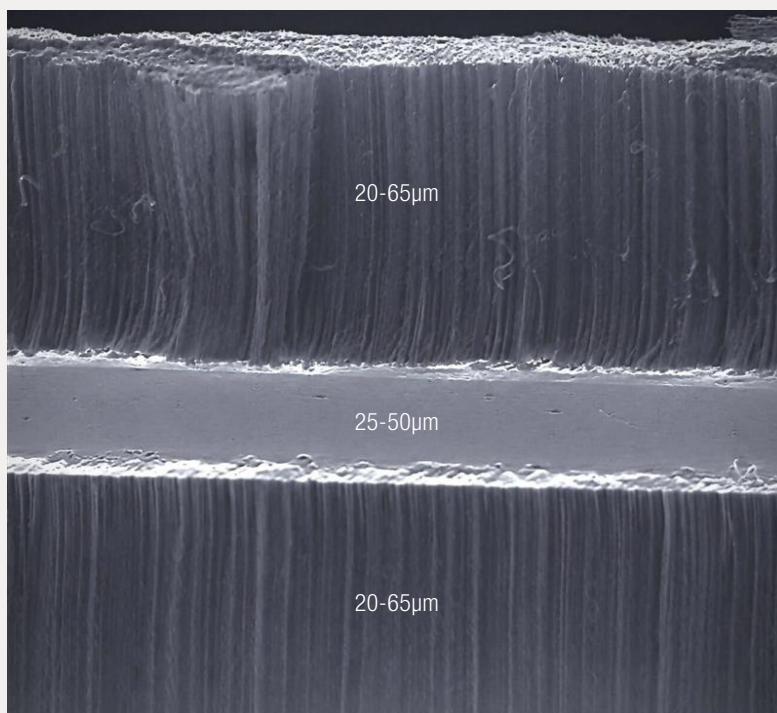


By contrast, our NT-H1 thermal paste performed clearly better when freshly installed, but temperatures kept rising slowly as the cycling progressed. After around 3700 cycles, temperatures with the NT-CP1 pad started to be lower than with the NT-H1 paste.

This makes the NT-CP1 ideal for users who want to ensure maximum performance years down the line without having to think about reapplying thermal paste.

Not all carbon TIMs are created equal.

	GRAPHITE FILM	VERTICALLY ALIGNED GRAPHITE	CARBICE
			
Architecture	Thin sheets of stacked graphene	Slices of graphite film aligned vertically	Vertically-aligned carbon nanotubes bonded to an aluminum core
Thermal conductivity	Relatively low through-plane conductivity	Relatively low in-plane conductivity	Excellent combination of through-plan and in-plane conductivity
Mechanics	Compressible, NOT elastic, exhibits compression set		Compressible and elastic, eliminates compression set and shear delamination
Durability	Fragile, tears easily		Robust, tear resistant metal core
Ease of use	Slippery, hard to place and maintain alignment		Peel and stick
Supply chain	~80% of graphite produced in China, potentially subject to export controls and tariffs		Made in the USA from widely available commodity feedstocks
Environmental	Very high carbon footprint due to energy intense mining and processing		Manufactured using recycled aluminum and waste carbon gas in a low temp. circular production model



Carbice® pad: SEM cross section (~30,000x magnification)

140mm size desk fan



- Highly versatile premium quality fan set for home, office and multi-purpose ventilation applications such as desk fans, room fans, device cooling, etc.
- Next-gen NF-A14x25 G2 140mm fan with NV-AA1-14 airflow amplifier combine superior ventilation efficiency with outstanding quietness of operation
- Sturdy, steel-made NV-FM1 pivoting fan mount for flexible angle adjustments, can be installed using the integrated magnets, screw holes or zip-ties slots (screws, wall plugs and zip-ties included)
- USB-powered with NV-EC4 1m extension cable for a combined total cable length of 2m, pre-installed NA-FG1 fan grill for extra safety
- New inline USB fan controller allows adjusting the fan from maximum airflow performance to near-silent operation as well as monitoring, remote-controlling and programming through OpenSFC protocol
- Current ETA: Q1 2027

Next-gen Seasonic PRIME TX Noctua Edition PSU




- Next-gen Seasonic PRIME Enterprise platform
- OptiGuard™ intelligent GPU power protection system with pin-level current monitoring for enhanced safety and reliability
- 180mm length (instead of 210mm) for enhanced case compatibility
- 1600W and 1300W versions
- Noctua NF-A12x25 G2 fan and custom-designed, highly optimised fan grill
- Semi-passive operation: Fan stays off at regular loads and ambient temperatures for virtually noise-free operation, slowly ramps up to near inaudible levels with increasing loads
- ATX 3.1 and PCIe 5.1 compliant
- Fully modular, Noctua themed cabling for clean and tidy builds
- Titanium level energy efficiency (94% at 50% load)
- **Current ETA: Q1 2027**

Thermal Grizzly Wire View Pro II Noctua Edition



- Per-pin power consumption monitoring for 12V-2x6 connector protects graphics cards from damage through uneven current distribution
- Customised CNC-milled aluminium heatsink, integrated, frameless NF-A4x10 fan and signature Noctua fan grill ensure significantly quieter operation compared to the standard version
- Semi-passive operation: Silent at idle, powerful cooling at full load conditions
- Audible and visual warnings if limits are exceeded
- Plug-and-play usability without the need for custom configuration
- USB-C connection for user-performed firmware updates
- Extended warranty by Thermal Grizzly covering the GPU connector for 2 years
- **Current ETA: September 2026**

Pulsar Feinmann F01 Noctua Edition



pulsar,

- Award-winning Pulsar Feinmann F01 gaming mouse
- Integrated Noctua NF-A4x10 5V PWM fan provides quiet airflow towards your palm to minimise hand sweat with minimal power draw
- Ultra-lightweight design (73g)
- XS-2 42000 DPI sensor with 8kHz polling rate
- Carbon composite exoskeleton
- USB-C port for charging and wired use
- Fan speed can be controlled through buttons or web driver in 5 levels
- Unique styling in signature Noctua colourway
- **Current ETA: June/July 2026**

Prusament PETG Noctua Beige & Brown



- PETG material provides higher tenacity and increased temperature resistance compared to PLA
- Ideal for parts that are subject to structural load or higher temperatures (up to 80°C)
- Easy to print using standard setups, no heated build chamber required
- Carefully fine-tuned for consistency with Noctua's signature colours
- Perfect for 3D printing accessories or other parts that will be used with Noctua fans
- Original Prusa quality, high-precision in-house manufacturing in Prague, Czech Republic
- Wild range of official Noctua 3D printing models offered on [Printables.com](https://www.printables.com)
- Available in June 2026 through [Prusa3d.com](https://www.prusa3d.com)

PRUSA
RESEARCH
by JOSEF PRUSA

comma.ai comma four driver-assistance device



COMMA

- Aftermarket autonomous driving assistant provides advanced lane-keeping and adaptive cruise control
- Qualcomm Snapdragon 845 MAX processor cooled by an extruded aluminium heatsink with an integrated, frameless NF-A4x10 5V PWM fan
- Running open-source openpilot software
- Dual-cam 360° vision and a narrow cam to see far-away objects, 3D accelerometer, 3D gyroscope, high-precision GPS and microphone
- Compatible with over 325 vehicle models from brands such as Audi, Chevrolet, Chrysler, CUPRA, Dodge, Ford, GMC, Honda, Hyundai, Jeep, Kia, Lexus, Mazda, Nissan, Ram, SEAT, Skoda, Tesla, Toyota or Volkswagen
- Available through www.comma.ai

Robert Juliat Sully 4C stage lighting



- 200W LED upgrade module for converting existing Robert Juliat 600SX tungsten fixtures
- Drop-in upgrade keeping the same proven optics, lantern body and accessories
- Greatly reduced energy consumption and maintenance cost
- Cooled by a customised NH-U9S heatsink with NF-A9 fan
- Safe operating temperatures at minimal noise emissions, even at high ambient temperatures
- Robert Juliat is a market leader in professional stage lighting since 1919
- Available through www.robertjuliat.com



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