



THE CHOICE OF
CHAMPIONS

REPUBLIC OF
GAMERS

NO.1
COOLING FOR
SPECTACULAR PERFORMANCE



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A GAMING LAPTOP WITH EXCEPTIONAL COOLING

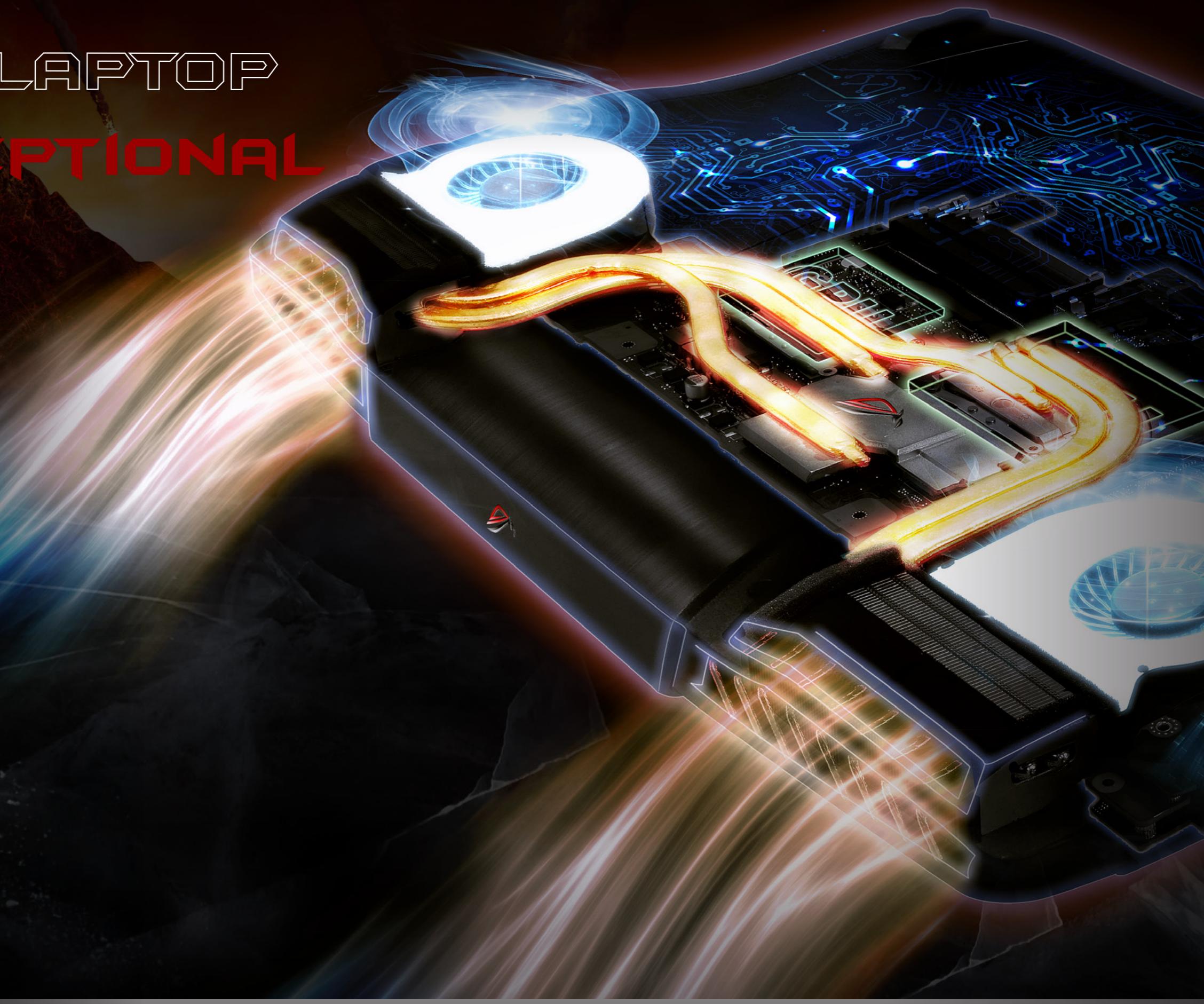
ASUS Republic Of Gamers (ROG) has the design expertise to craft unique cooling systems for its various models for the very best cooling performance.

The main function of any cooling module is the removal of heat that builds up within the system, and a mark of a great cooling design is one that effectively dissipates heat to maintain peak system performance.

ASUS ROG professional-grade cooling systems are not just about the hardware, but more of a combination of hardware and software aimed at giving you smooth, stable, and silent computing performance.

Moreover, ASUS ROG laptops are subjected to stringent temperature and performance tests in a specially-designed sponge- heat box; ensuring they live up to your expectations and ASUS's own high quality standards.

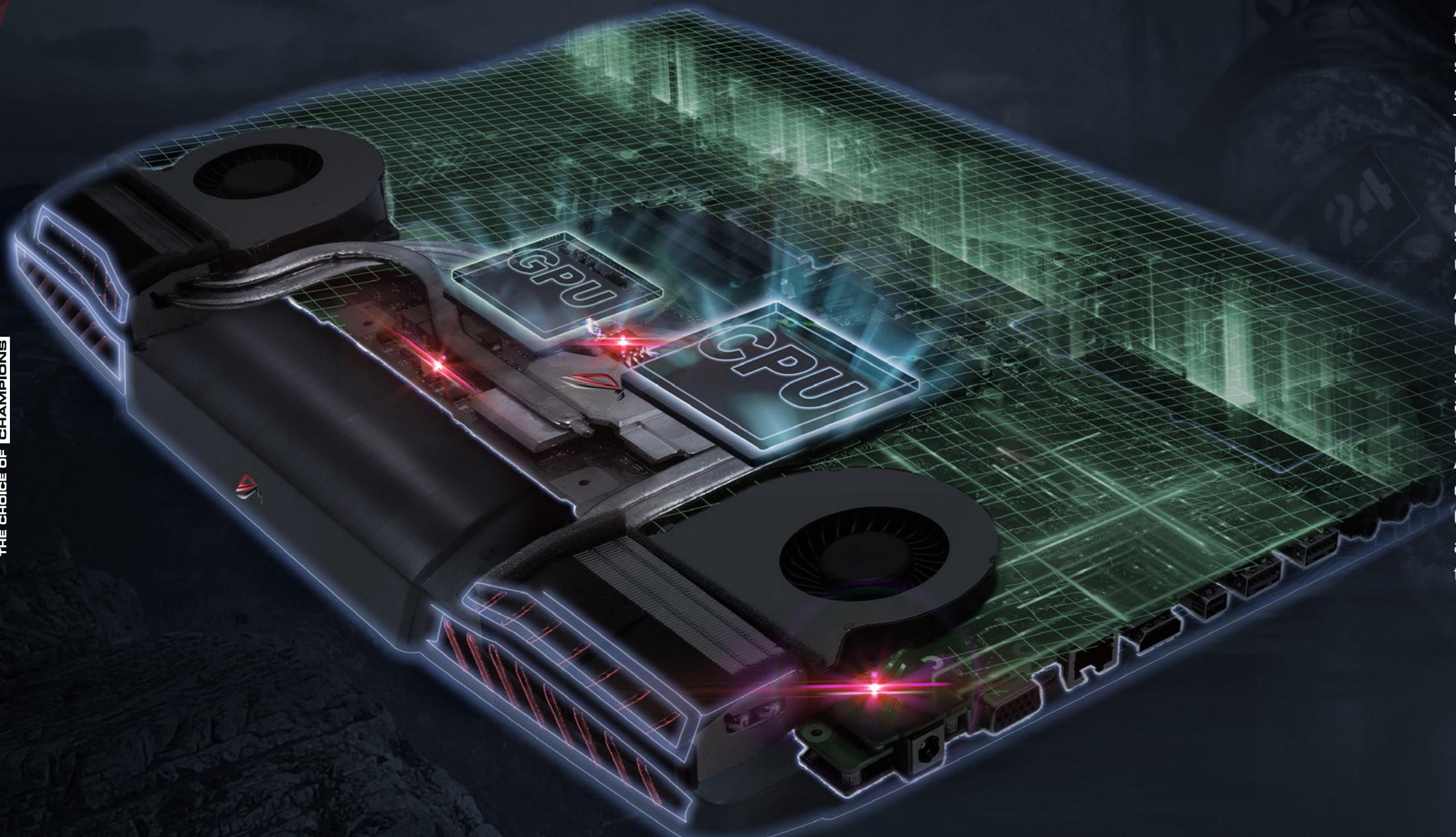
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UNRIVALLED RELIABILITY



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ASUS ROG aims to design cooling systems that strike that perfect balance between stability, performance, and component life span.

The standard design guarantees exceptional performance. Heat pipes and other electronic components are stringently tested to ensure they adhere to ASUS ROG's highest standards, and in theory, can provide continuous cooling for at least 30,000 hours.

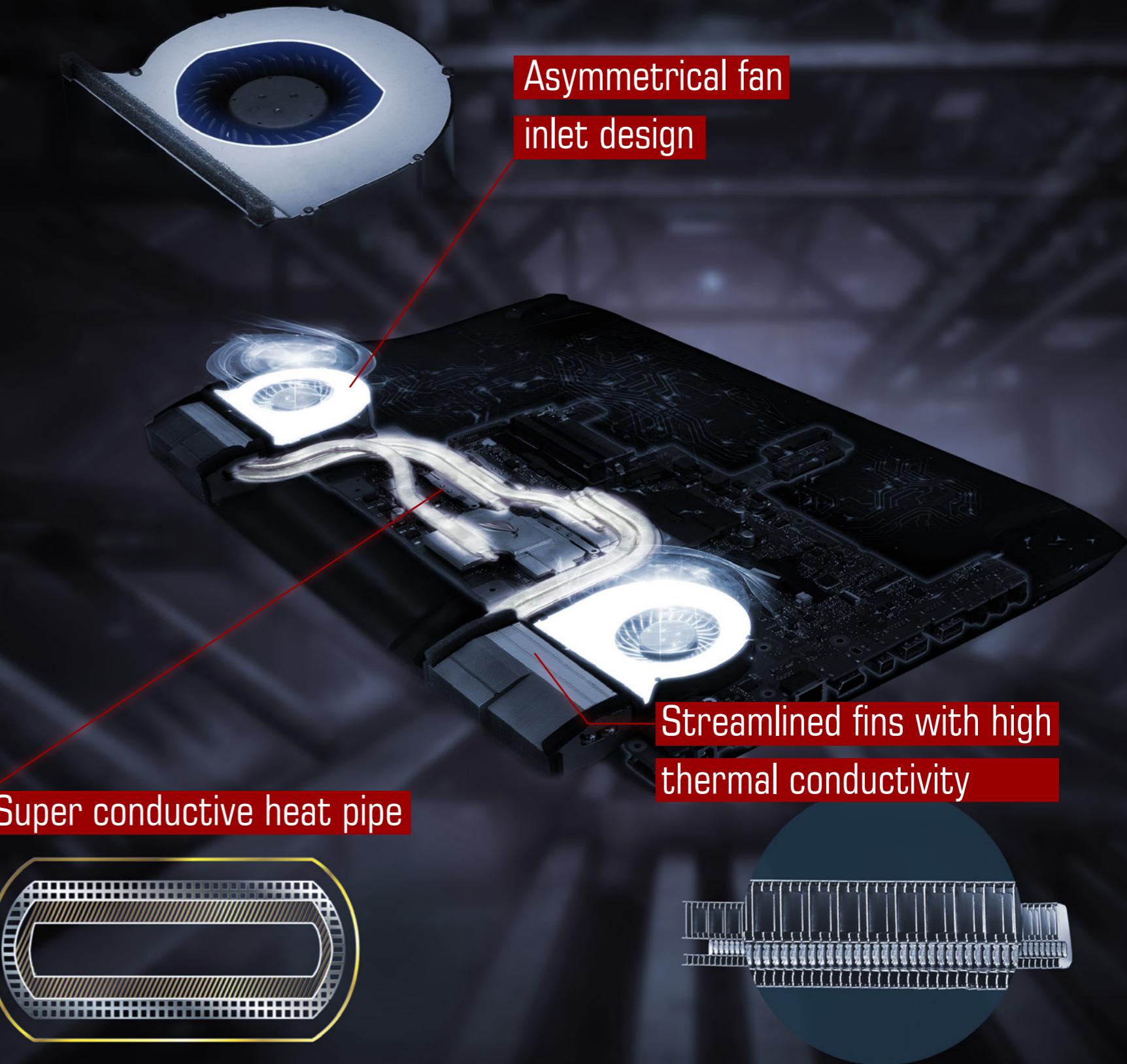
ASUS ROG-exclusive Integrated Thermal Control Policy (ITCP) utilizes highly-efficient components and sophisticated monitoring systems to ensure stability, performance, and silent operation even during marathon gaming sessions.

A temperature sensor keeps a close eye on everything, and will activate Smart Thermal Control (STC) Technology to adjust current and voltage levels if it senses any abnormalities.

EXTREME PERFORMANCE WITH STABILITY

ASUS ROG gaming laptops feature high-spec components in an effort to maximize cooling efficiency within the tight confines of a laptop. This helps keep things cool when you're doing graphic design or playing the latest graphics-intensive games.

The cooling module consists of hybrid heat pipes with pure copper for increased thermal conduction. An asymmetrical, high-pressure fan design combined with low air flow resistance vented fins makes more airflow through the system. Cool air is drawn in via air intakes situated around the laptop, this keeps key components like the GPU and CPU cool, and ensures the entire laptop stays at a comfortable temperature. The hot exhaust then exits at the rear and sides of the machine, and away from you. This unique design which can be applied to any ROG laptop.





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TURBOMASTER

TECHNOLOGY FOR

STABLE **OVERCLOCKING**

ASUS ROG TurboMaster technology gives you the ultimate gaming experience, with ROG-exclusive GPU Tweak software and upgraded components. It delivers an additional 5% overclocking boost in real-time, while maintaining stable and reliable overclocking performance. Overclocking puts a strain on the CPU, GPU, and other components; it's important that to have a cooling system to ensure stable overclocking performance: ASUS ROG gaming laptops provide stable overclocking performance thanks to an extended passive cooling area. This revolutionary design ensures smooth airflow within the system, with key power components surrounded by heat pipes for conductive cooling.

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BUILT FOR YOUR COMFORT

Temperature and noise detract from the user experience, and ASUS reduces them to ensure you stay comfortable while embroiled in battle.

Every part that goes into each ASUS ROG laptop adheres to the strictest quality standards. The chassis, keyboard, and touchpad are thoroughly scrutinized to ensure excellent ergonomics and user comfort even after long periods of use.

Component placement is also considered at the very beginning of the design process, with low-heat components being placed under the palm rest to ensure it stays cool and comfortable.

ASUS ROG controls noise levels by controlling fan speed in stages. When required, each stage increases fan speed gradually to ensure noise levels are kept in check and not be a nuisance to you or others.

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ASUS G751 OTHERS



IDLE

ASUS G751

22.9

dba

Others

30-32

dba

FULL LOAD NOISE LEVEL

ASUS G751

34.5

dba

Others

47

dba



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A COMPACT
GAMING
DESKTOP

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VERSATILITY IN A 12.5-LITER CASE

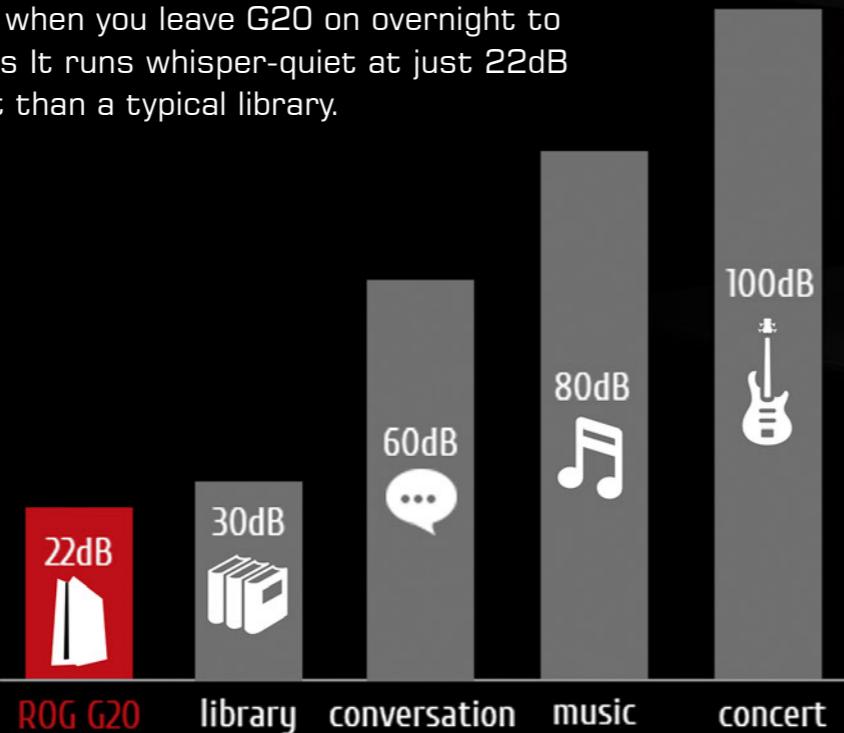
A one-stop gaming and entertainment system, ROG G20 is set to dominate the small form factor gaming desktop segment. Despite its 12.5-liter size, G20 packs quite a punch, giving you the performance you'd expect from a hardcore gaming system at a fraction of the size.

ULTRA-QUIET

G20 isn't just powerful, it's extremely quiet as well. You won't be disturbed when you leave G20 on overnight to download games, as it runs whisper-quiet at just 22dB at idle - more quiet than a typical library.

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Noise Level





EFFECTIVE HEAT MANAGEMENT FOR ULTIMATE STABILITY

ROG G20 is designed with no visible exterior side exhaust vents in order to keep the chassis' neat, clean lines. ROG G20 has a thermal design that takes advantage of natural convection, with a hidden airflow channel that ensures efficient heat management. Two internal fans further enhance heat dissipation, making ROG G20 ideal for marathon gaming sessions.

