PHANTEKS

Phanteks Eclipse P600s (Without Soundproof Panels)

Lab ID PHCAS00080

Report Date: Mar 26, 2020

Scheme: DELTA

Lautstärkeklasse 

DELTA is a Cybenetics rating. It is not part of our ISO/IEC 17065 certification schemes and is outside our accreditation.

Level assigned with the Chassis Test Protocol Revision 2.0 limits

This chassis was tested before October 2026 with the earlier test procedure. Its result, 3.1 dB, is the measured pink-noise difference of that evaluation and is unchanged. In October 2026 its level was assigned again with the limits of Chassis Test Protocol Revision 2.0: A+ from 8 dB, A from 5 dB, Standard from 2 dB. The earlier procedure is not identical to the Revision 2.0 procedure, so this result is indicative when compared with chassis tested under Revision 2.0. Originally published level: A.



Aristeidis Bitziopoulos, Certification Body General Manager

General Information

Test Equipment

Test Environment	Hemi-Anechoic Chamber with 6 dB(A) noise floor
Conditions	25(±2) degrees Celsius, 40-50% humidity

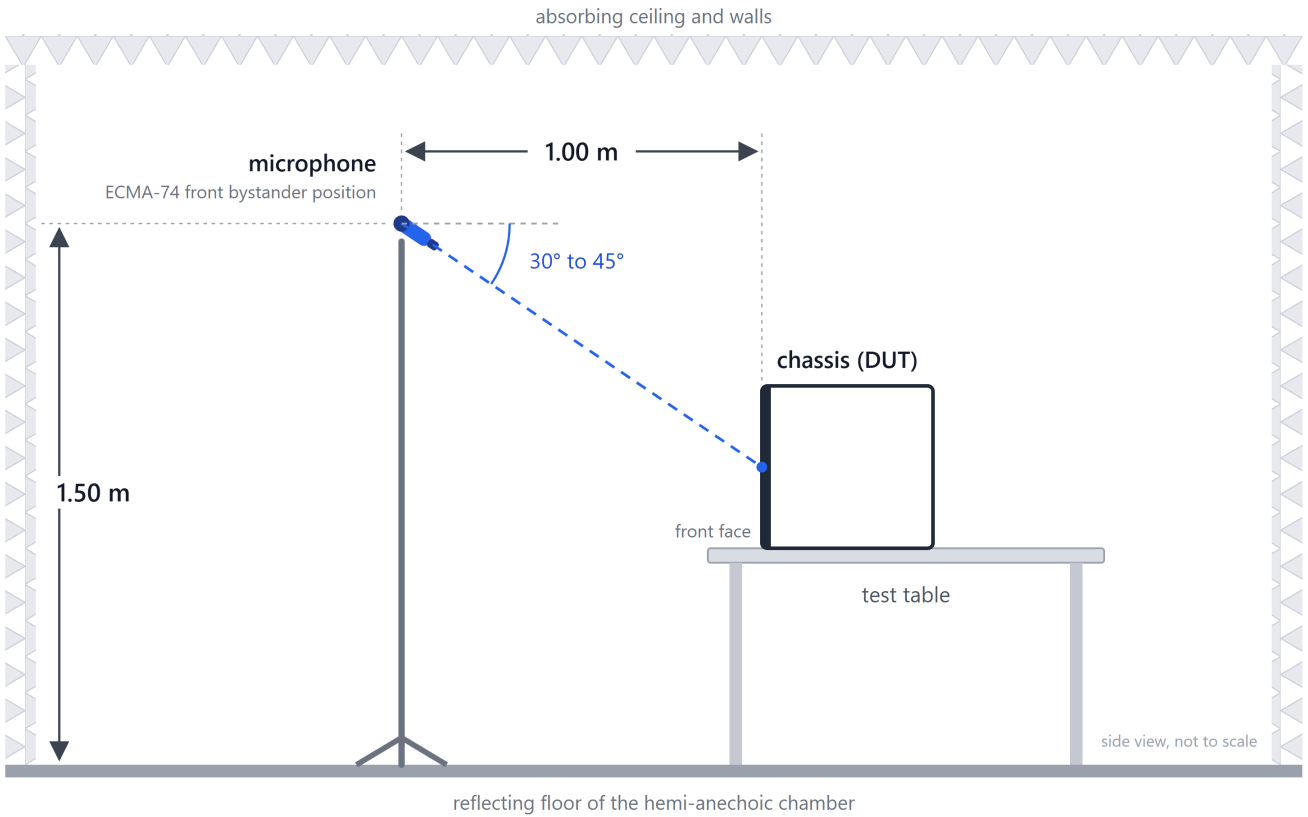
Sound Analyzer	Bruel & Kjaer 2270-S G4 & 2250-L G4
Microphone	Bruel & Kjaer Type 4955-A
Mic Calibrator	Bruel & Kjaer Type 4231
Data Logger	Picoscope TC-08

Technical Specifications Table

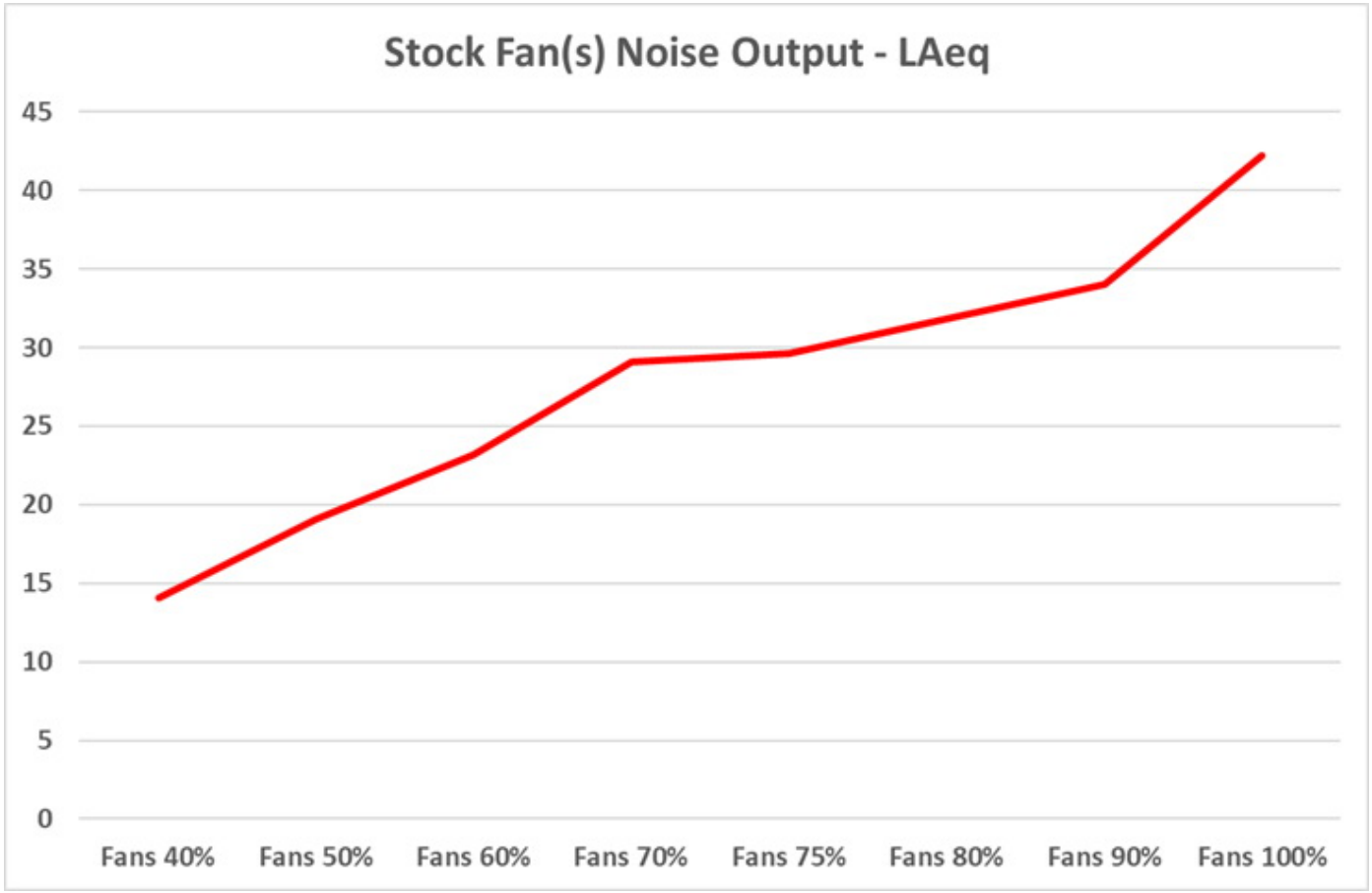
Brand	Phanteks
Product Name	Eclipse P600S
Type	Mid Tower
Dimensions (LxWxH)	510 x 240 x 520mm
Motherboard Support	Mini-ITX, Micro-ATX, ATX, E-ATX
Removable Motherboard Tray	No
Front Door/Cover	Yes
Materials Body	Steel, Plastic, Sound Dampening Material
Materials Side Panel	Left:Sound-Dampened Steel Right: Sound-Dampened Steel
Expansion Slots	7x (plus three vertical)
Drive Bays	5.25": - 3.5 " : 10x Internal (4 included) 2.5" :3x Internal (3 included)
I/O Panel	1x USB 3.1 Gen 2 Type-C, 2x USB 3.0, 1x audio jack, 1x mic jack, 1x Power Button, 1x Reset Button
Pre-installed Fan(s)	Front: 2x 140mm Rear: 1x 140mm Top: -
Fan Support	Front: 3x 120mm / 3x 140mm Top: 3x 120mm / 2x 140mm Rear: 1x 120mm / 1x 140mm
Fan Bearing Type	no info
Fan Power Connector	3-Pin
Fan Controller	Yes
Radiator Support	Front: 120/140/240/280/360/420mm Top: 120/140/240/280/360mm Rear: 120/140mm
CPU Cooler Height (Max)	190mm

VGA Length (Max)	435mm
PSU Length (Max)	195mm (with all 3.5" bays) / 250mm (with one 3.5" bay)
Behind MB Tray Clearance/Cable Management Support	18-27mm
Dust Filters	Top, Front, Bottom
PSU Support	Bottom Mount, ATX
Weight	12.1 kg
Warranty	5-years

Noise Measurements Test Set Up



Stock Fan(s) Noise Output – LAeq

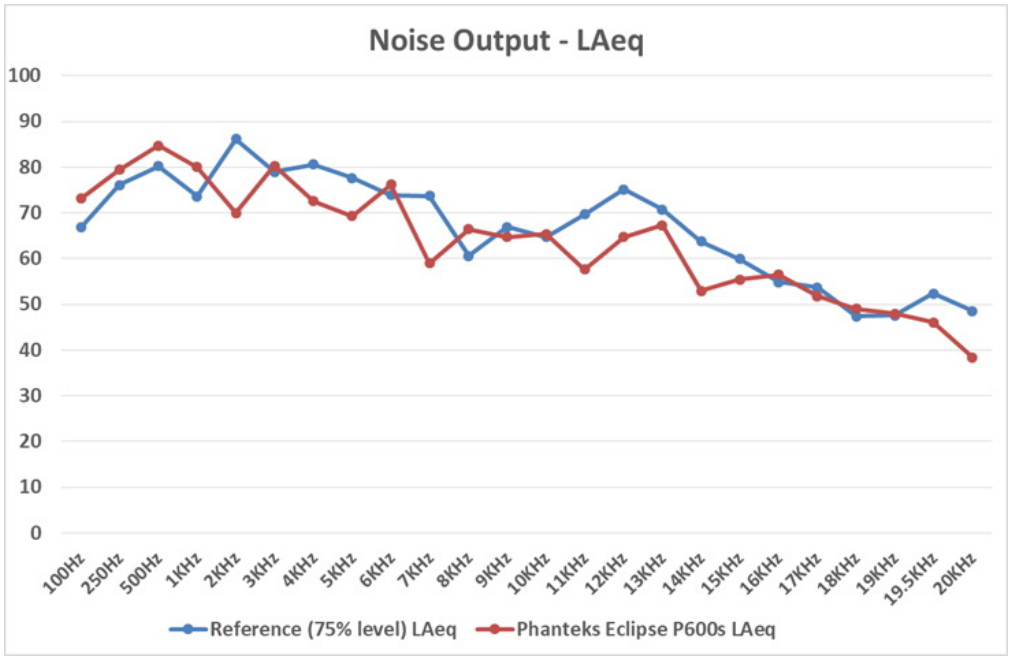


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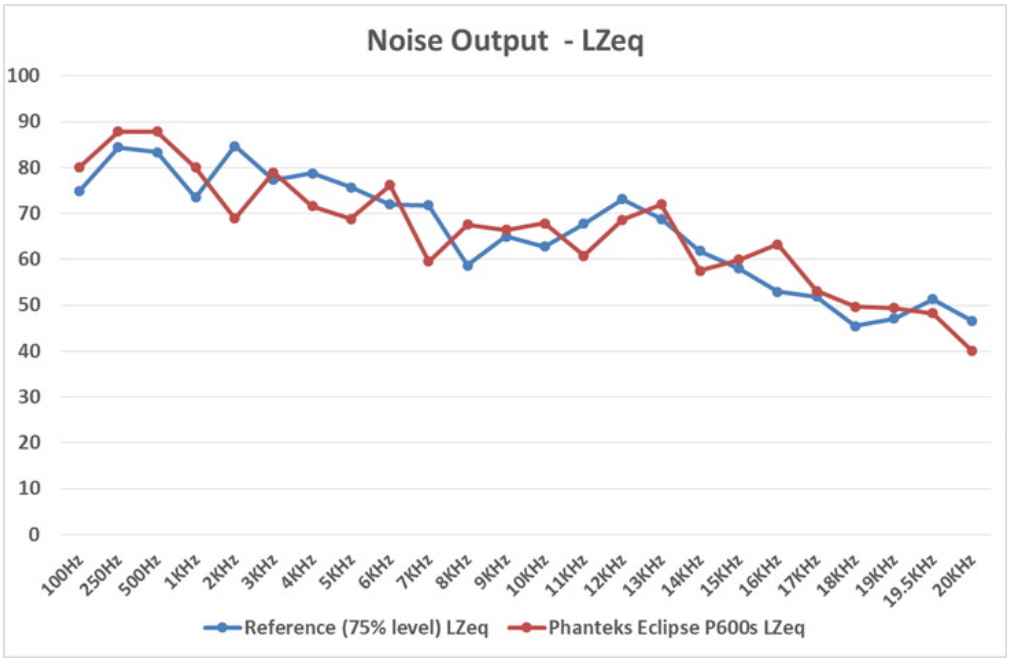
Stock Fan Noise Output from 40% to 100%

Noise Output

LAeq

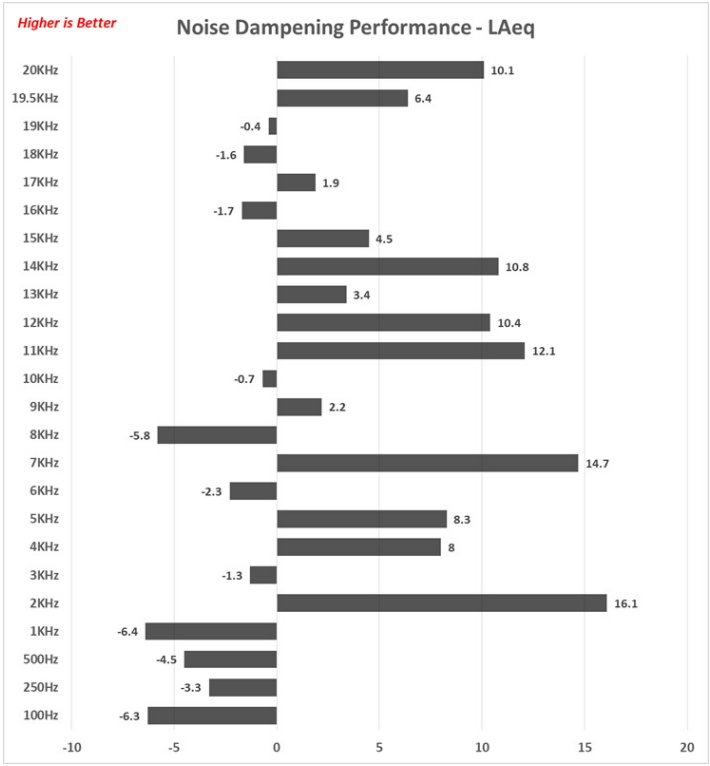


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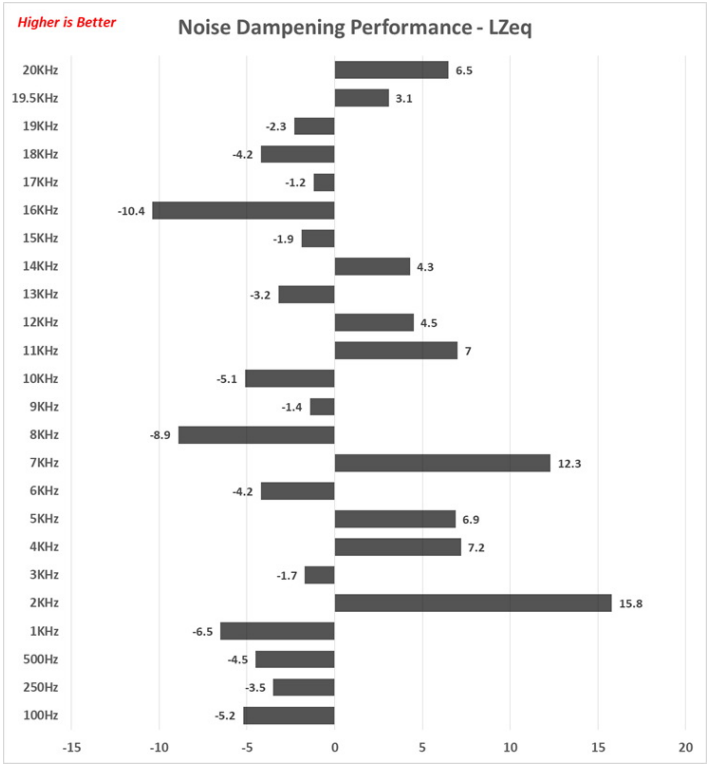


Noise Dampening Performance – Test Tones

LAeq

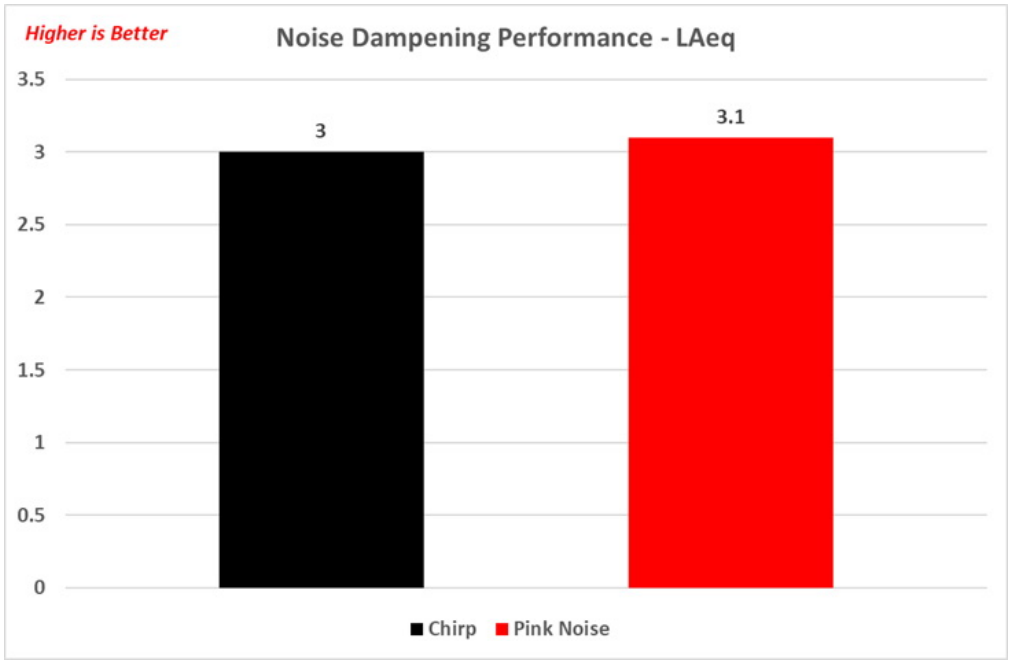


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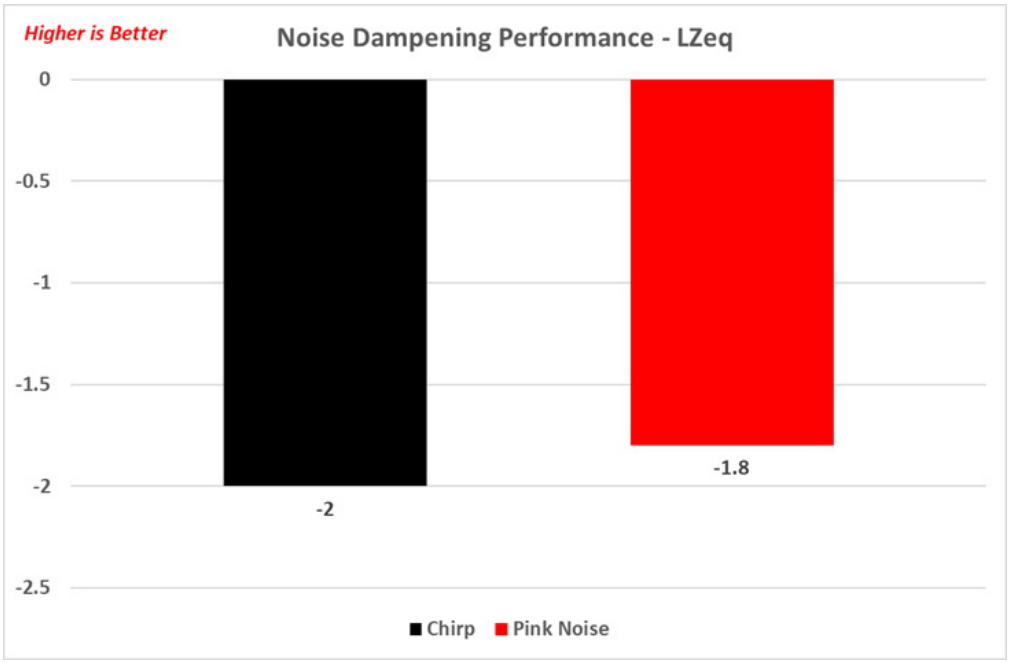


Noise Dampening Performance – Pink & Chirp

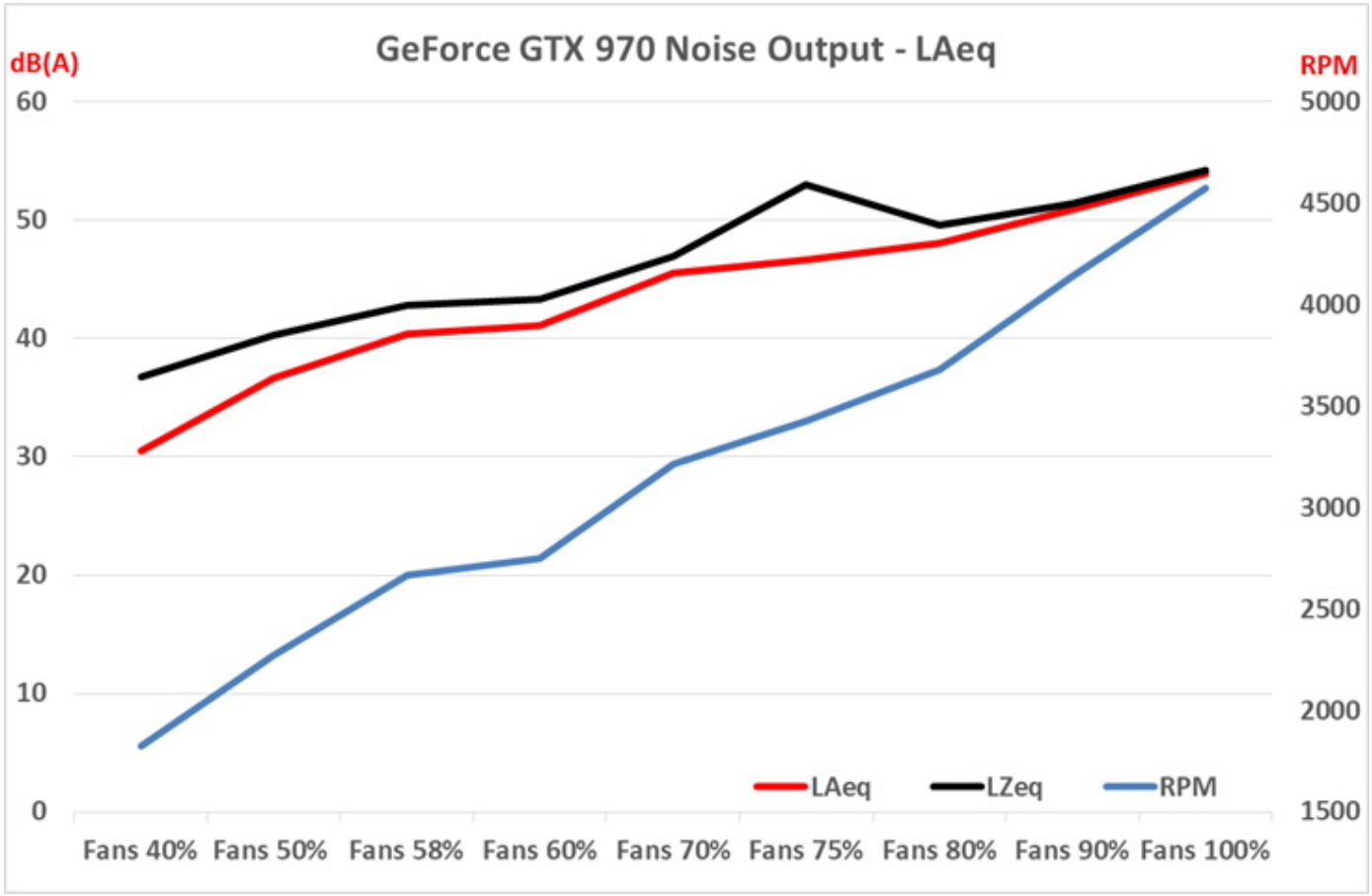
LAeq



LZeq



GPU Fan(s) Noise Output – Laeq



INFO

NVIDIA GeForce GTX 970 Noise Output from 40% to 100% Fan Speed

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Case Photo



Case Photo #2

Cybenetics bietet freiwillige Zertifizierungsprogramme für Netzteile – ETA für Effizienz, LAMBDA für Lautstärke und SAFE für Sicherheit und korrekten Betrieb – sowie für Kühlprodukte mit DELTA für die Schalldämmung von Gehäusen und PHI für Luftstrom und statischen Druck von Lüftern

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