ASUS ProArt PF120

Serial Number

Lab ID AS12000229

Certification ID FN25229

Test Result Report ID: 26FN229A

Certificate Issue Date: Apr 20, 2026

Scheme: PHI

Airflow Rating

Static Pressure Rating

Aristeidis Bitziopoulos, Certification Body General Manager

SECTION A: Noise Testing 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
Testing Methodology	Cybenetics Phi Fan Performance Standard

SECTION B: Fan Testing Instrument Technical Specifications

Manufacturer	Long Win Science & Technology Corporation
Model Number	LW-9266
Air Flow Rate	2.4 – 250 CFM
Accuracy of Air Flow Rate	< 3.5% INFS
Repeatability error	< 2%
Static pressure	0-20mmAq (100mmAq with the high static pressure throttle device)
Overall Dimensions	0.7 (W) x 2.2 (L) x 1.6 (H) m
Power Source	220VAC, 5A, Single Phase, 50/60Hz
Based on Standards	ISO 5801-2007, AMCA 210-0, ASHRAE 51-2007, IEC 61591-2005, GB/T 1236-200

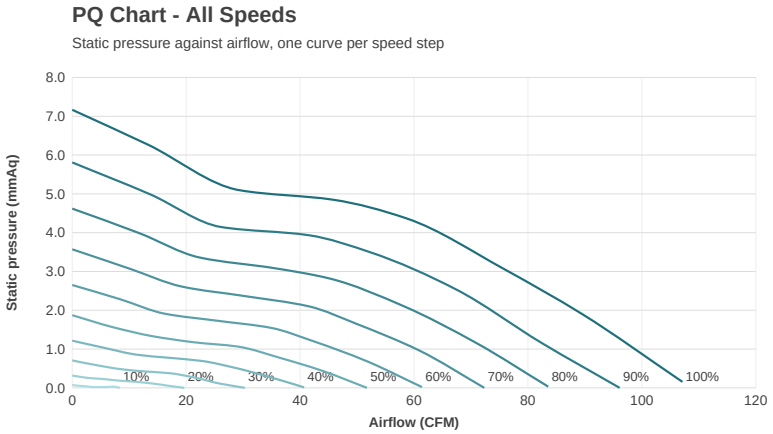
SECTION C: PHI Performance Levels

Pressure at 25 dB(A)	P (mmAq)	2.00
Airflow at 25 dB(A)	Q (CFM)	52.94

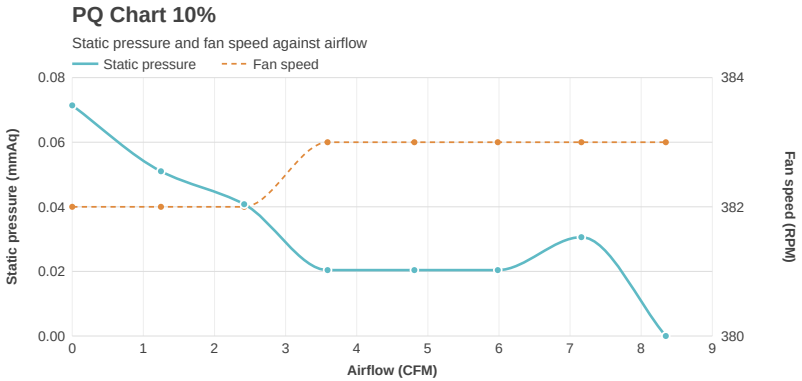
SECTION D: Information about DUT

Product Identification Details	
Brand	ASUS
Model	ProArt PF120
Serial Number	-
Product Specifications	
Manufacturer-Provided Information	
Bearing	Fluid Dynamic
Connector	PWM
Cable length (mm)	500
Daisy-chain	Cable
RGB Connector	None
RGB Daisy-chain	None
Cybenetics Measurements	
Max Speed (RPM)	3157
Max Airflow (CFM)	107.12
Max Static Pressure (mmAq)	7.17
Max Fan Noise Level (dBA)	46.50
Fan Max Current (A)	0.47
Fan Weight (gr)	213
Dimensions (W x H x D)	120mm x 120mm x 30mm
Cybenetics Testing Information	
Lab ID	AS12000229
Date of receipt	Apr 15, 2026
Testing Date	Apr 20, 2026
Report Issued Date	Apr 20, 2026
Engineer Name	-

SECTION E: Long Win LW-9266 - Pressure and Airflow

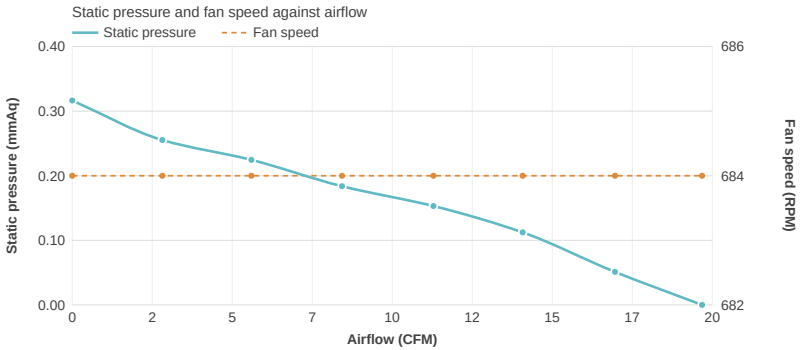


Speed Setting	Max Airflow (CFM)	Max Static Pressure (mmAq)	Fan Speed (RPM)	Max Power (W)
10%	8.35	0.07	382 - 383	0.08
20%	19.68	0.32	684	0.17
30%	30.29	0.71	990	0.31
40%	40.72	1.22	1297	0.56
50%	51.75	1.87	1602 - 1604	0.92
60%	61.38	2.65	1909 - 1910	1.40
70%	72.33	3.57	2215 - 2217	2.08
80%	83.56	4.62	2520 - 2523	2.95
90%	96.09	5.81	2828 - 2830	4.12
100%	107.12	7.17	3138 - 3140	5.58



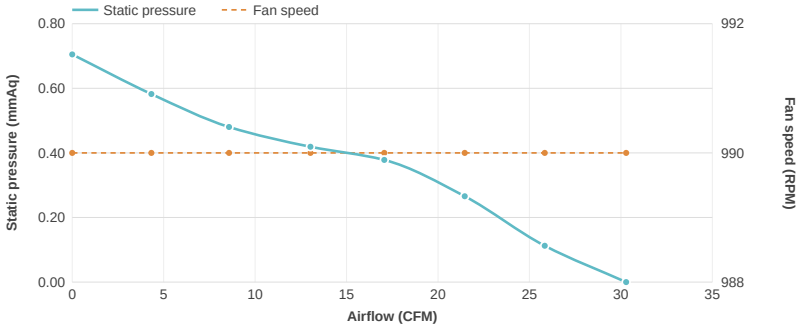
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	0.07	382	0.007	0.08
1.25	0.05	382	0.007	0.08
2.42	0.04	382	0.006	0.07
3.59	0.02	383	0.006	0.07
4.81	0.02	383	0.006	0.07
5.98	0.02	383	0.006	0.07
7.16	0.03	383	0.006	0.07
8.35	0.00	383	0.006	0.07

PQ Chart 20%



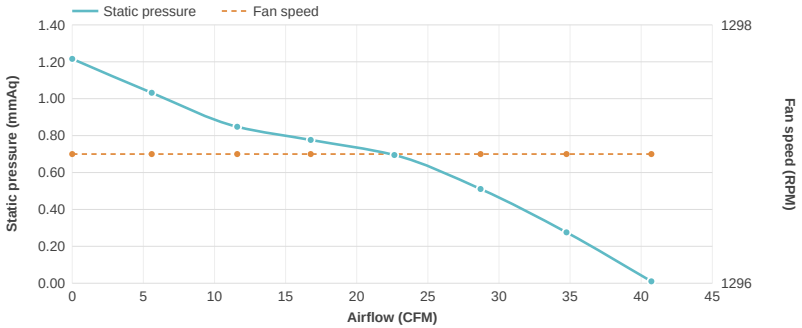
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	0.32	684	0.014	0.17
2.81	0.26	684	0.013	0.16
5.60	0.22	684	0.013	0.16
8.43	0.18	684	0.013	0.16
11.28	0.15	684	0.013	0.16
14.07	0.11	684	0.013	0.16
16.96	0.05	684	0.013	0.16
19.68	-0.01	684	0.012	0.14

PQ Chart 30%



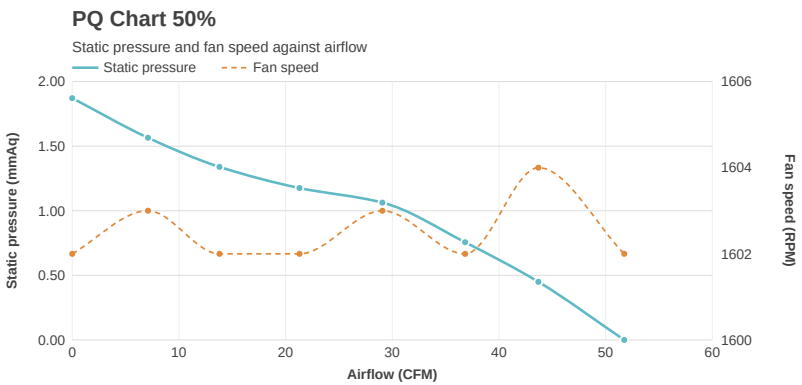
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	0.71	990	0.026	0.31
4.33	0.58	990	0.025	0.30
8.57	0.48	990	0.024	0.29
13.03	0.42	990	0.025	0.30
17.06	0.38	990	0.025	0.30
21.46	0.27	990	0.024	0.29
25.84	0.11	990	0.023	0.28
30.29	-0.01	990	0.022	0.26

PQ Chart 40%



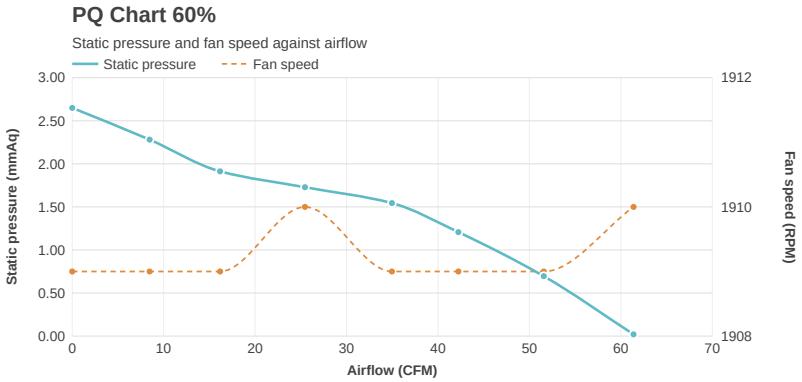
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	1.22	1297	0.047	0.56
5.59	1.03	1297	0.045	0.54
11.60	0.85	1297	0.044	0.53
16.76	0.78	1297	0.044	0.53
22.65	0.69	1297	0.045	0.54
28.71	0.51	1297	0.043	0.52
34.75	0.28	1297	0.041	0.49
40.72	0.01	1297	0.037	0.44

PQ Chart 50%



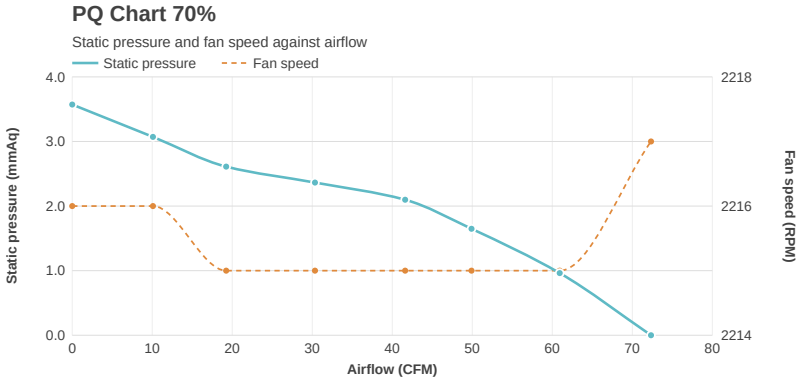
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	1.87	1602	0.077	0.92
7.10	1.57	1603	0.073	0.88
13.80	1.34	1602	0.072	0.86
21.30	1.18	1602	0.072	0.86
29.07	1.06	1603	0.073	0.88
36.83	0.76	1602	0.070	0.84
43.70	0.45	1604	0.066	0.79
51.75	0.00	1602	0.059	0.71

PQ Chart 60%



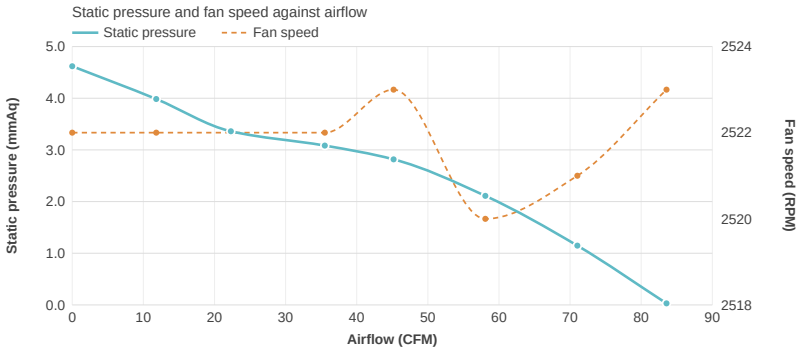
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	2.65	1909	0.117	1.40
8.46	2.28	1909	0.113	1.36
16.17	1.91	1909	0.110	1.32
25.46	1.73	1910	0.111	1.33
34.96	1.54	1909	0.114	1.37
42.23	1.21	1909	0.110	1.32
51.57	0.70	1909	0.101	1.21
61.38	0.02	1910	0.086	1.03

PQ Chart 70%



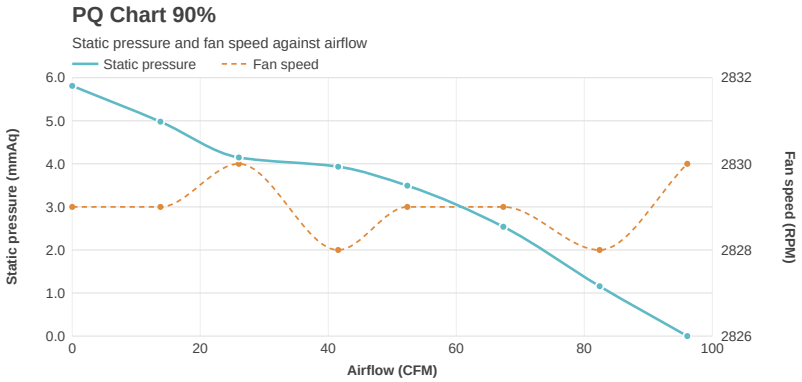
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	3.57	2216	0.173	2.08
10.09	3.07	2216	0.166	1.99
19.24	2.61	2215	0.162	1.94
30.34	2.36	2215	0.168	2.02
41.61	2.10	2215	0.171	2.05
49.91	1.65	2215	0.164	1.97
60.92	0.96	2215	0.148	1.78
72.33	-0.05	2217	0.119	1.43

PQ Chart 80%



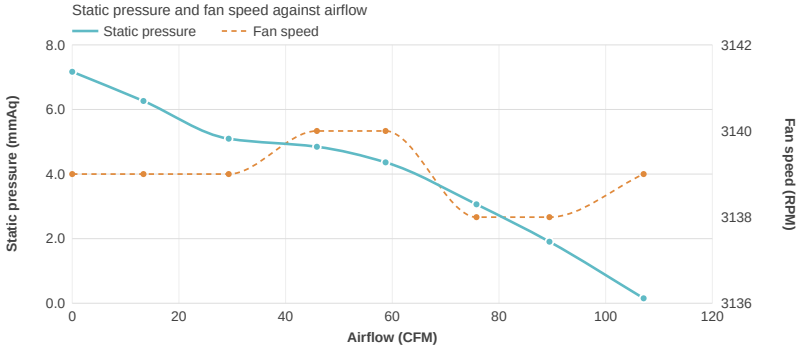
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	4.62	2522	0.246	2.95
11.82	3.98	2522	0.238	2.86
22.31	3.36	2522	0.228	2.74
35.51	3.08	2522	0.238	2.86
45.18	2.82	2523	0.243	2.92
58.08	2.11	2520	0.233	2.80
71.03	1.15	2521	0.207	2.48
83.56	0.03	2523	0.170	2.04

PQ Chart 90%



Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	5.81	2829	0.343	4.12
13.78	4.98	2829	0.330	3.96
26.04	4.15	2830	0.313	3.76
41.55	3.93	2828	0.338	4.06
52.35	3.49	2829	0.339	4.07
67.36	2.54	2829	0.315	3.78
82.39	1.16	2828	0.275	3.30
96.09	-0.03	2830	0.229	2.75

PQ Chart 100%



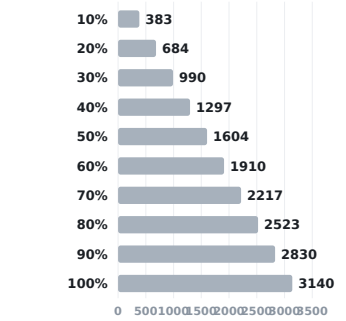
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	7.17	3139	0.465	5.58
13.36	6.26	3139	0.449	5.39
29.33	5.09	3139	0.422	5.06
45.87	4.85	3140	0.459	5.51
58.75	4.36	3140	0.465	5.58
75.78	3.06	3138	0.426	5.11
89.47	1.91	3138	0.384	4.61
107.12	0.15	3139	0.318	3.82

SECTION F: General Performance

RPM

Fan Speed

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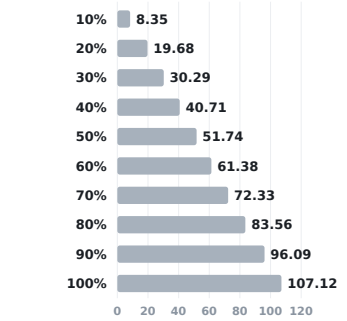


RPM · cybenetics.com

CFM Higher is better

Airflow

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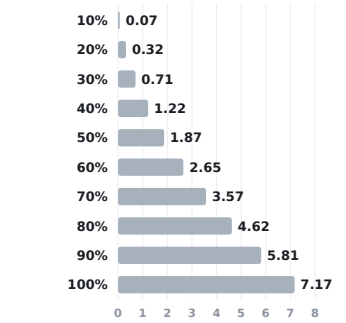


CFM · cybenetics.com

mmAq Higher is better

Static Pressure

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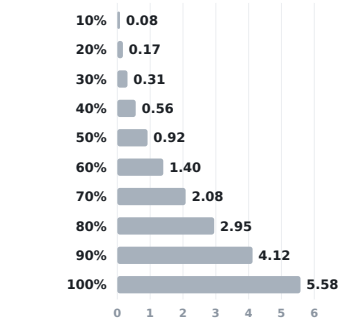


mmAq · cybenetics.com

W Lower is better

Power Consumption

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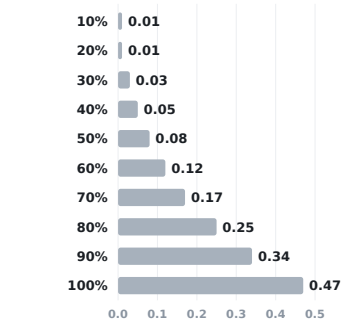


W · cybenetics.com

A Lower is better

Current

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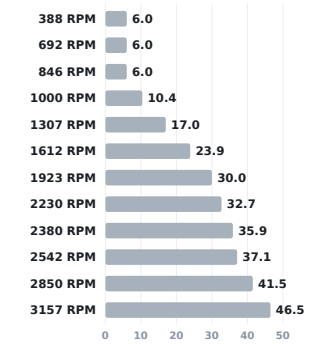


A · cybenetics.com

dB(A) Lower is better

Noise at Each Fan Speed

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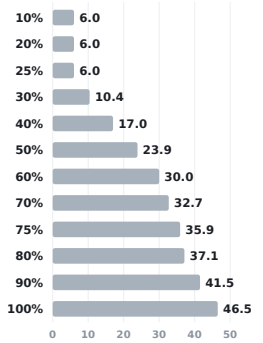


dB(A) · cybenetics.com

dB(A) Lower is better

Noise Output

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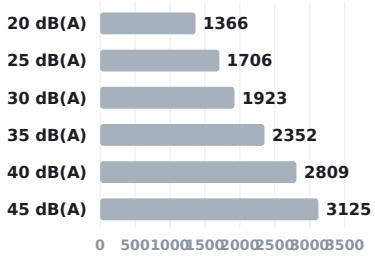


dB(A) · cybenetics.com

RPM

Fan Speed at Fixed Noise Levels

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SECTION G: Uncertainty

Fan Performance Uncertainty Estimation

General Statement

Measurement uncertainty associated with the reported results was evaluated and estimated in accordance with JCGM 100:2008 (Guide to the Expression of Uncertainty in Measurement — GUM) and ISO/IEC 17025:2017, Clauses 7.6 and 7.2.

The uncertainty budget accounts for all significant identified contributors arising from the measurement process, instrumentation, test conditions, and operator interaction.

The reported expanded uncertainty U is obtained by multiplying the combined standard uncertainty uc by a coverage factor k = 2, corresponding to a confidence level of approximately 95 %, assuming a normal probability distribution.

Unless otherwise stated, the reported uncertainty applies only to the specific measurements performed and does not include long-term drift, aging effects, or future environmental changes.

Expanded Measurement Uncertainty by Measurement Type

Measurement	Expanded Uncertainty U (k=2, norm)
Fan Air Flow	±1.23176 % of reading (k=2) — e.g. ±3.69 CFM at 25 CFM, ±4.29 at 92 CFM, ±7.15 at 250 CFM
Fan Static Pressure	±0.6727 Pa

Air flow uncertainty is relative to the reading: $U(Q) = 2 \cdot \sqrt{[(1.8200)^2 + (0.0123176 \cdot Q)^2]}$ CFM, valid over the declared measuring range 2.4 – 250 CFM.

The reported static pressure uncertainty applies over the 0 – 20 mmAq (0 – 196.1 Pa) measuring range of the Long Win LW-9266 apparatus. The apparatus can be extended to 100 mmAq (981 Pa) with the high static pressure throttle device; the uncertainty of that extended range has not been separately verified and the value stated above does not apply to it.

ASUS ProArt PF120





Front Rear

Cybenetics 提供自願性認證方案：電源供應器方面有 ETA（效率）、 LAMBDA（噪音）與 SAFE（安全與正確運作）；散熱產品方面有 DELTA（機殼隔音）與 PHI（風扇風量與靜壓）

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