CORSAIR

Corsair RS120 ARGB

A8NVG52936EJQM

Lab ID CR12000230

Certification ID FN25230

Test Result Report ID: 26FN230A

Certificate Issue Date: Apr 28, 2026

Scheme: PHI

Airflow Rating





Static Pressure Rating



Aristeidis Bitziopoulos, Certification Body General Manager

SECTION A: Noise Testing Equipment

□□ 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
□□ ing Methodology	Cybenetics Phi Fan Performance Standard

SECTION B: Fan Testing Instrument Technical Specifications

Manufacturer	Long Win Science & Technology Corporation
□□ l 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)	1.64
Airflow at 25 dB(A)	Q (CFM)	43.72

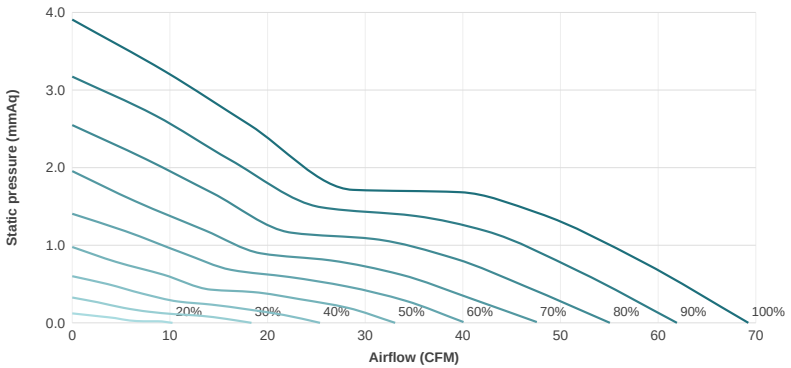
SECTION D: Information about DUT

Product Identification Details	
Brand	Corsair
□□ l	RS120 ARGB
Serial Number	A8NVG52936EJQM
Product Specifications	
Manufacturer-Provided Information	
Bearing	Magnetic Levitation
Connector	PWM
Cable length (mm)	400
Daisy-chain	Cable
RGB Connector	□ ne
RGB Daisy-chain	□ ne
Cybenetics Measurements	
Max Speed (RPM)	2119
Max Airflow (CFM)	69.23
Max Static Pressure (mmAq)	3.91
Max □□□□ Level (dBA)	37.90
Fan Max Current (A)	0.28
Fan Weight (gr)	161
Dimensions (W x H x D)	120mm x 120mm x 25mm
Cybenetics □□ ing Information	
Lab ID	CR12000230
Date of receipt	Apr 22, 2026
□□ ing Date	Apr 28, 2026
Report Issued Date	Apr 28, 2026
Engineer Name	-

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

PQ Chart - All Speeds

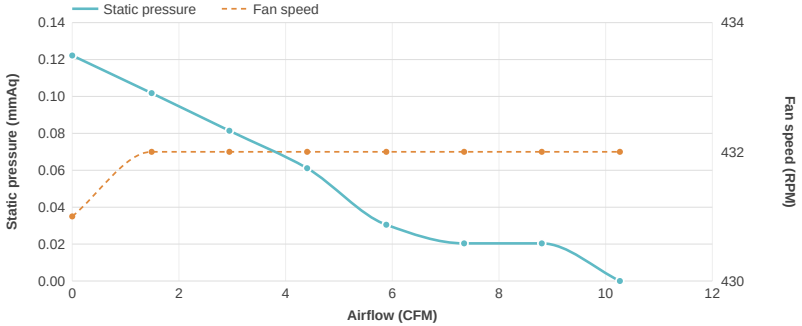
Static pressure against airflow, one curve per speed step



Speed Setting	Max Airflow (CFM)	Max Static Pressure (mmAq)	Fan Speed (RPM)	Max Power (W)
20%	10.27	0.12	431 - 432	0.07
30%	18.36	0.33	643	0.16
40%	25.38	0.60	854 - 855	0.29
50%	33.06	0.98	1069	0.49
60%	40.06	1.41	1280 - 1281	0.79
70%	47.57	1.96	1488 - 1489	1.18
80%	55.06	2.55	1703	1.76
90%	61.92	3.17	1911 - 1912	2.48
100%	69.23	3.91	2110 - 2111	3.36

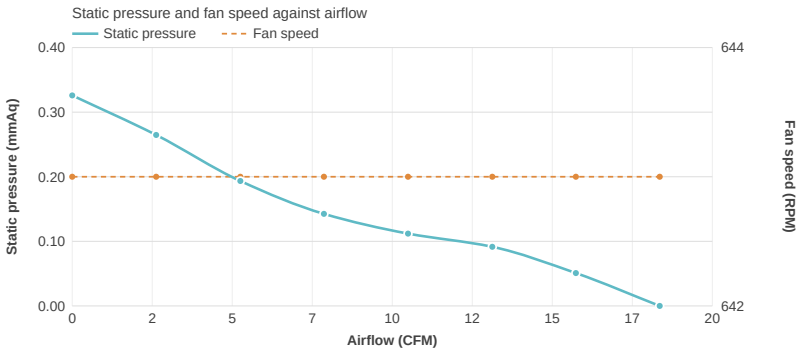
PQ Chart 20%

Static pressure and fan speed against airflow



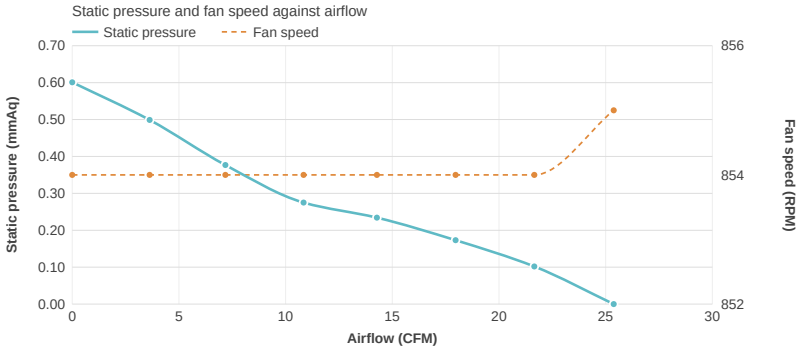
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	0.12	431	0.006	0.07
1.49	0.10	432	0.005	0.06
2.95	0.08	432	0.005	0.06
4.40	0.06	432	0.004	0.05
5.89	0.03	432	0.004	0.05
7.35	0.02	432	0.004	0.05
8.80	0.02	432	0.004	0.05
10.27	0.00	432	0.004	0.05

PQ Chart 30%



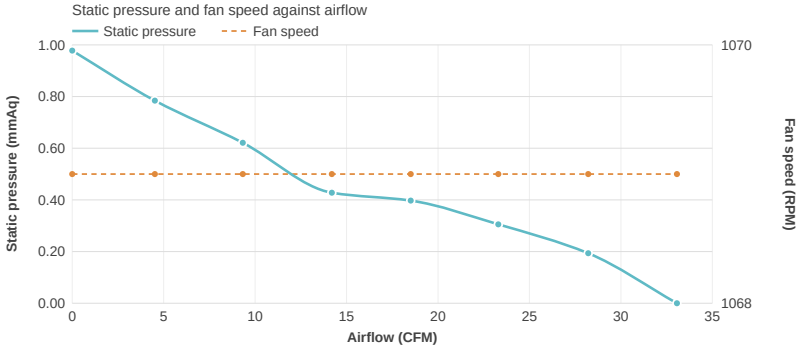
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	0.33	643	0.013	0.16
2.62	0.26	643	0.012	0.14
5.25	0.19	643	0.011	0.13
7.86	0.14	643	0.010	0.12
10.49	0.11	643	0.010	0.12
13.12	0.09	643	0.010	0.12
15.74	0.05	643	0.009	0.11
18.36	0.00	643	0.009	0.11

PQ Chart 40%



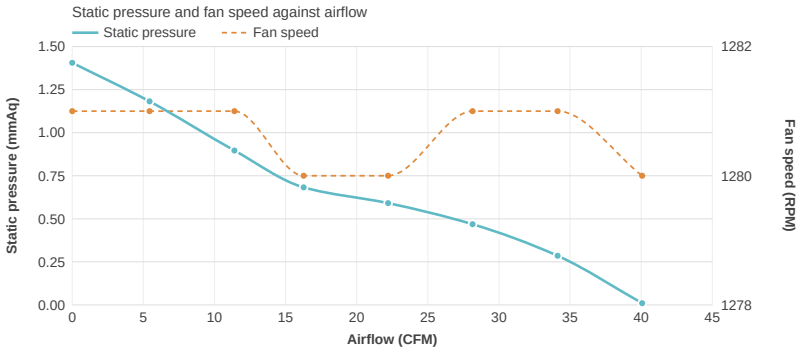
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	0.60	854	0.024	0.29
3.63	0.50	854	0.022	0.26
7.18	0.38	854	0.020	0.24
10.84	0.28	854	0.018	0.22
14.28	0.23	854	0.017	0.20
17.97	0.17	854	0.017	0.20
21.66	0.10	854	0.016	0.19
25.38	0.00	855	0.015	0.18

PQ Chart 50%



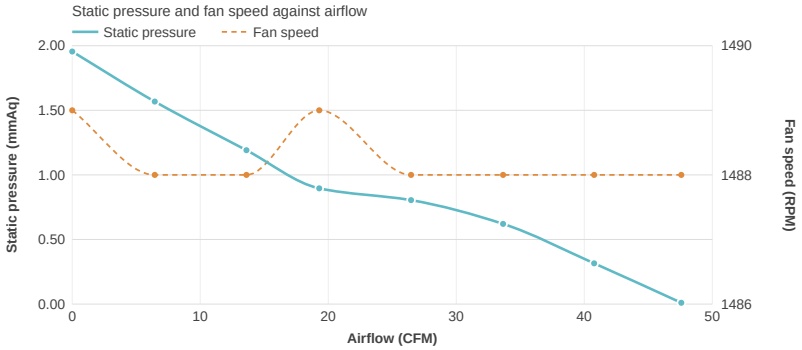
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	0.98	1069	0.041	0.49
4.52	0.78	1069	0.038	0.46
9.33	0.62	1069	0.033	0.40
14.20	0.43	1069	0.029	0.35
18.51	0.40	1069	0.028	0.34
23.30	0.31	1069	0.028	0.34
28.21	0.19	1069	0.027	0.32
33.06	0.00	1069	0.025	0.30

PQ Chart 60%



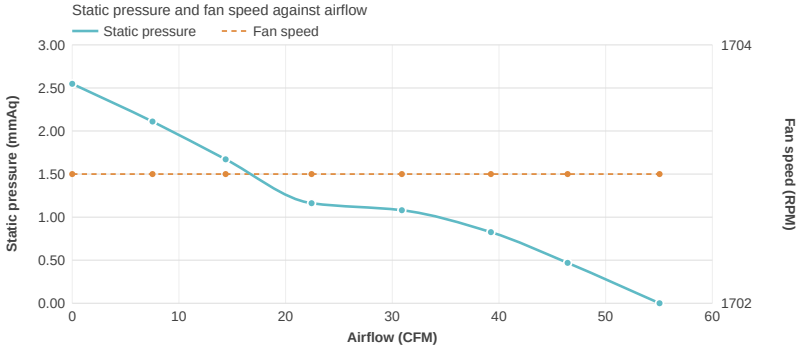
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	1.41	1281	0.066	0.79
5.43	1.18	1281	0.059	0.71
11.40	0.90	1281	0.051	0.61
16.27	0.68	1280	0.044	0.53
22.21	0.59	1280	0.042	0.50
28.14	0.47	1281	0.041	0.49
34.13	0.29	1281	0.039	0.47
40.06	0.01	1280	0.035	0.42

PQ Chart 70%



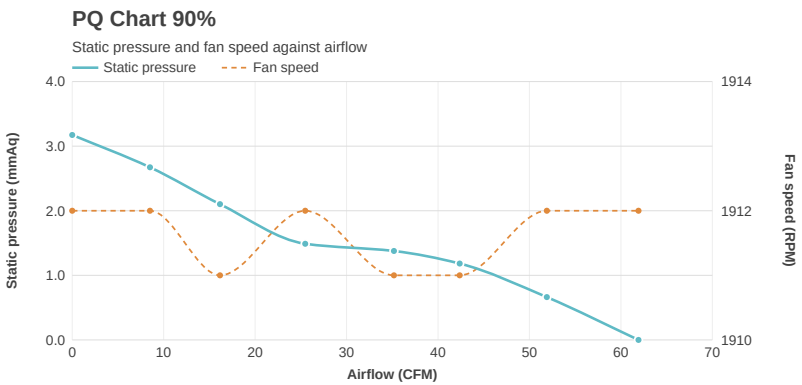
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	1.96	1489	0.098	1.18
6.44	1.57	1488	0.088	1.06
13.61	1.19	1488	0.073	0.88
19.29	0.90	1489	0.063	0.76
26.47	0.80	1488	0.061	0.73
33.66	0.62	1488	0.060	0.72
40.77	0.32	1488	0.055	0.66
47.57	0.01	1488	0.050	0.60

PQ Chart 80%



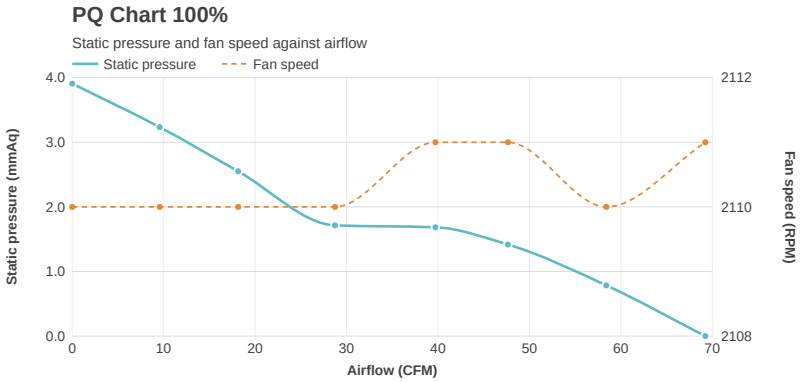
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	2.55	1703	0.147	1.76
7.52	2.11	1703	0.128	1.54
14.38	1.67	1703	0.109	1.31
22.43	1.16	1703	0.087	1.04
30.89	1.08	1703	0.087	1.04
39.25	0.83	1703	0.083	1.00
46.43	0.47	1703	0.076	0.91
55.06	-0.02	1703	0.066	0.79

PQ Chart 90%



Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	3.17	1912	0.207	2.48
8.51	2.67	1912	0.178	2.14
16.16	2.10	1911	0.150	1.80
25.48	1.49	1912	0.119	1.43
35.18	1.38	1911	0.118	1.42
42.37	1.18	1911	0.115	1.38
51.90	0.66	1912	0.104	1.25
61.92	-0.02	1912	0.087	1.04

PQ Chart 100%



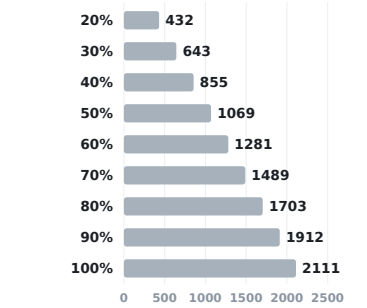
Airflow (CFM)	Static Pressure (mmAq)	Fan Speed (RPM)	Current (A)	Power (W)
0.00	3.91	2110	0.280	3.36
9.56	3.24	2110	0.241	2.89
18.15	2.55	2110	0.198	2.38
28.73	1.71	2110	0.151	1.81
39.72	1.68	2111	0.155	1.86
47.64	1.42	2111	0.151	1.81
58.40	0.79	2110	0.137	1.64
69.23	-0.03	2111	0.113	1.36

SECTION F: General Performance

RPM

Fan Speed

Corsair RS120 ARGB

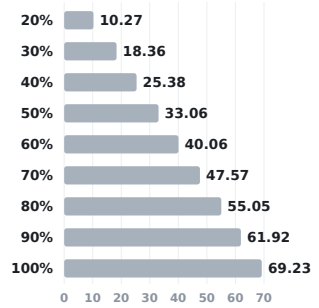


RPM · cybenetics.com

CFM Higher is better

Airflow

Corsair RS120 ARGB

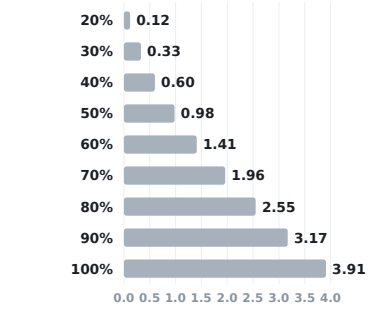


CFM · cybenetics.com

mmAq Higher is better

Static Pressure

Corsair RS120 ARGB

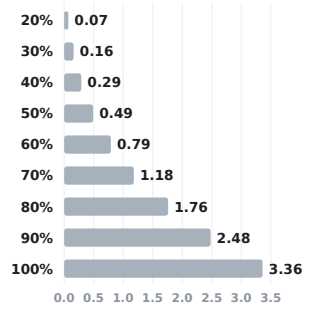


mmAq · cybenetics.com

W Lower is better

Power Consumption

Corsair RS120 ARGB

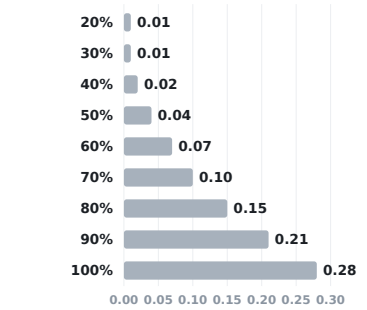


W · cybenetics.com

A Lower is better

Current

Corsair RS120 ARGB

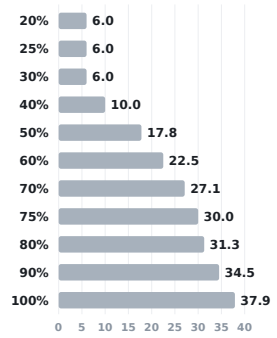


A · cybenetics.com

dB(A) Lower is better

Noise Output

Corsair RS120 ARGB

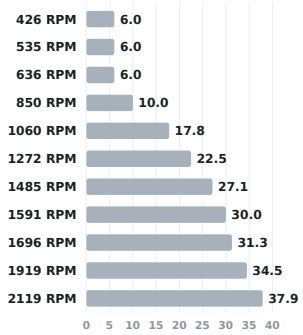


dB(A) · cybenetics.com

dB(A) Lower is better

Noise at Each Fan Speed

Corsair RS120 ARGB

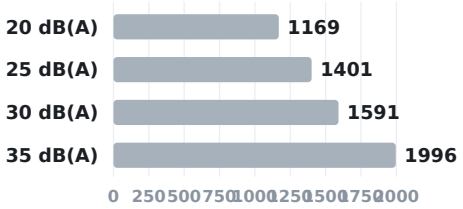


dB(A) · cybenetics.com

RPM

Fan Speed at Fixed Noise Levels

Corsair RS120 ARGB



RPM · cybenetics.com

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.

Corsair RS120 ARGB





Front Rear

本测试报告中包含的所有数据和图表均可在以下条件下由任何人使用：使用过程需提及测试结果由 Cybenetics提供。
在任何情况下都应提供原始测试结果文档的网站链接

Cybenetics 提供自愿性认证计划：电源方面有 ETA（效率）、 LAMBDA（噪声）与 SAFE （安全与正确运行）；散热产品方面有 DELTA（机箱隔音）与 PHI（风扇风量与静压）

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Cybenetics - Corsair RS120 ARGB - Test Report - Page 11 / 11