1 P12 PWM PST

Lab ID AC12000067

Certification ID FN25067

Test Result Report ID: 25FN67A

Certificate Issue Date: -

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

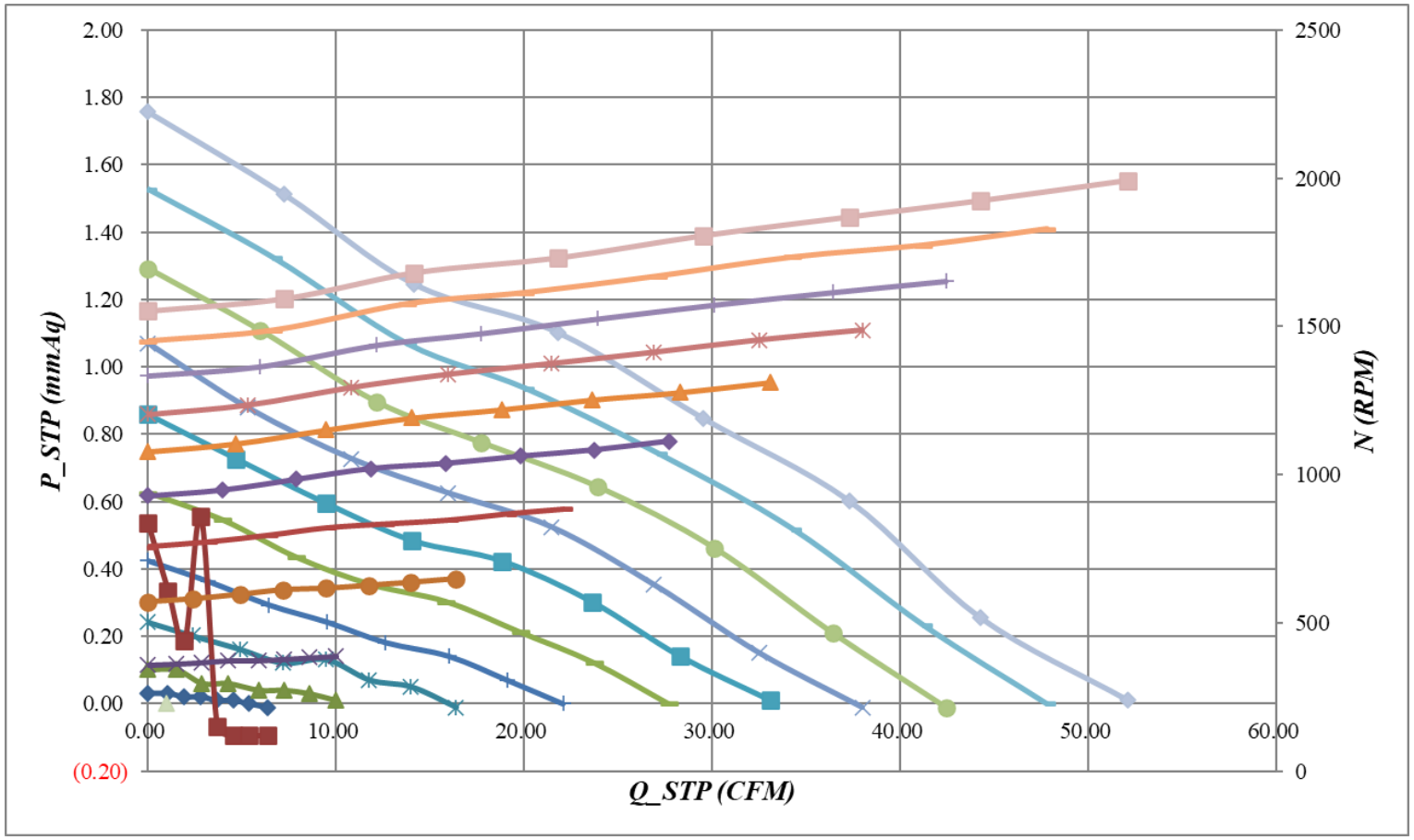
Pressure at 25 dB(A)	P (mmAq)	1.42
Airflow at 25 dB(A)	Q (CFM)	44.95

SECTION D: Information about DUT

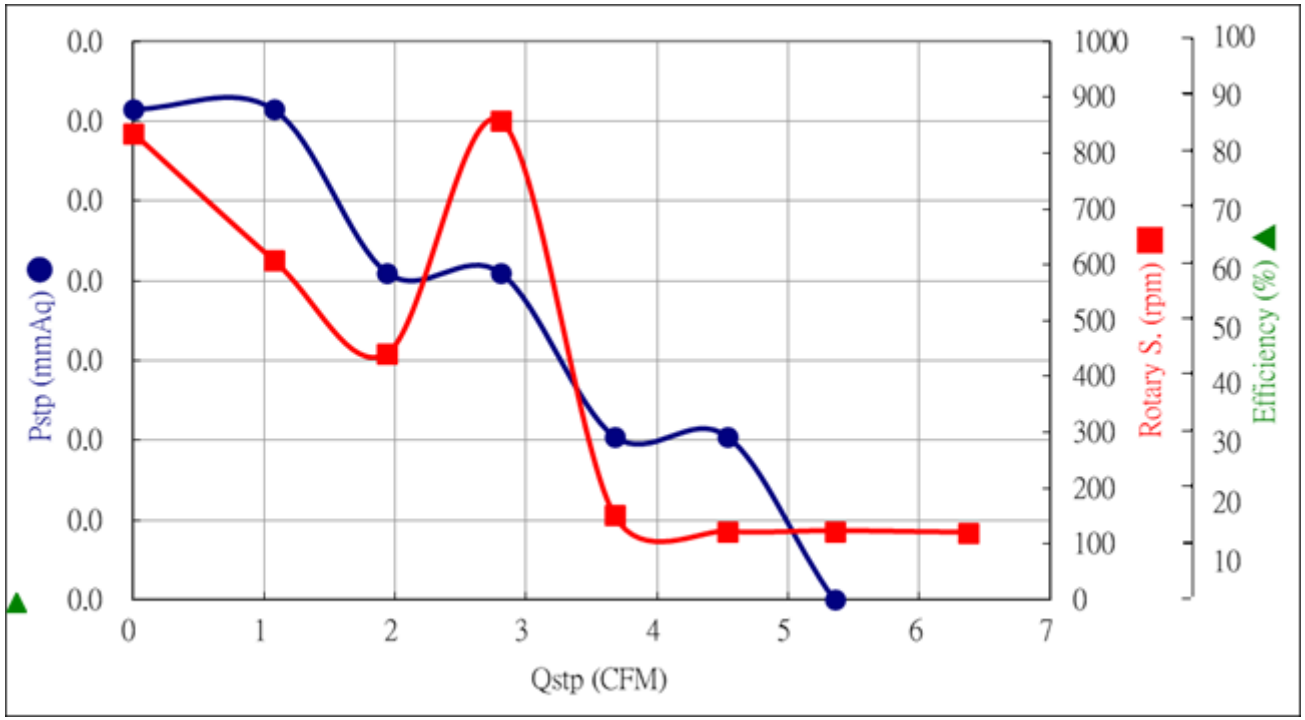
Product Identification Details	
Brand	1
□□ l	P12 PWM PST
Serial Number	-
Product Specifications	
Manufacturer-Provided Information	
Bearing	Fluid Dynamic
Connector	PWM
Cable length (mm)	390
Daisy-chain	Cable
RGB Connector	□ ne
RGB Daisy-chain	□ ne
Cybenetics Measurements	
Max Speed (RPM)	1889
Max Airflow (CFM)	52.15
Max Static Pressure (mmAq)	1.76
Max □□□□ Level (dBA)	28.60
Fan Max Current (A)	0.10
Fan Weight (gr)	147
Dimensions (W x H x D)	120mm x 120mm x 25mm
Cybenetics □□ ing Information	
Lab ID	AC12000067
Date of receipt	-
□□ ing Date	-
Report Issued Date	-
Engineer Name	Georgios Theodoros Sarimpalas

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

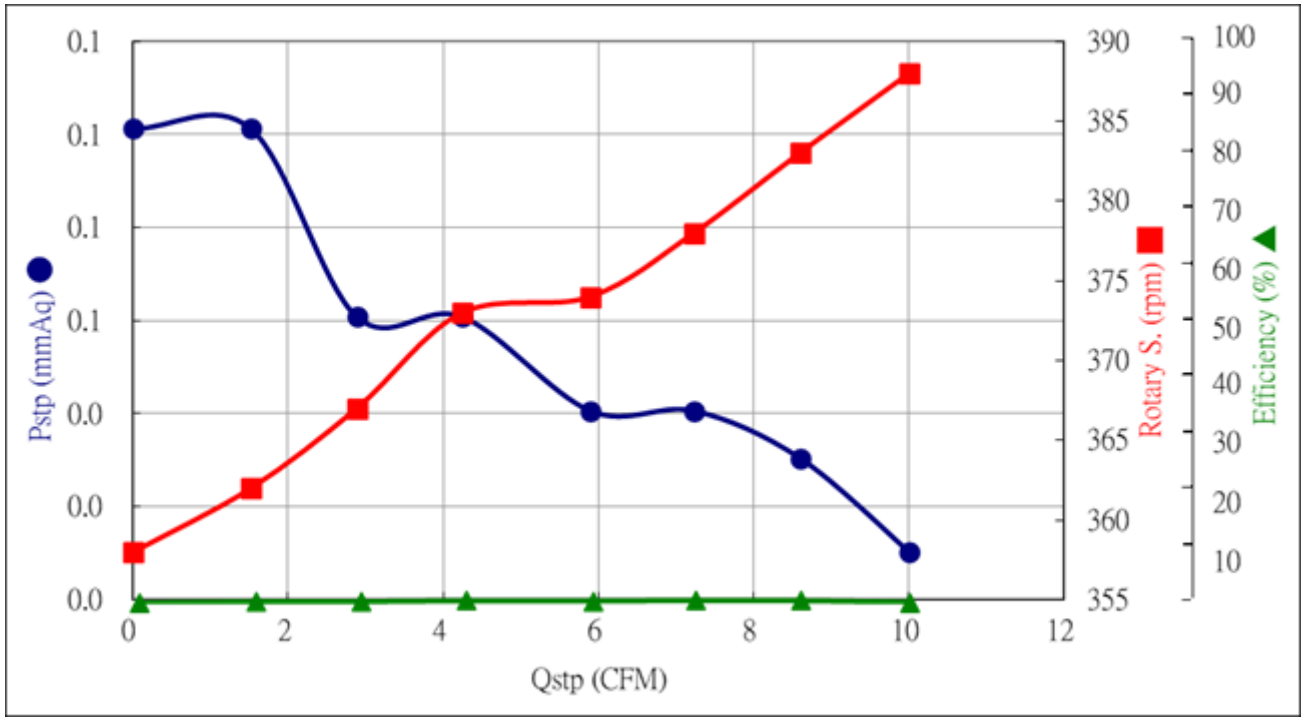
PQ Chart All Speed



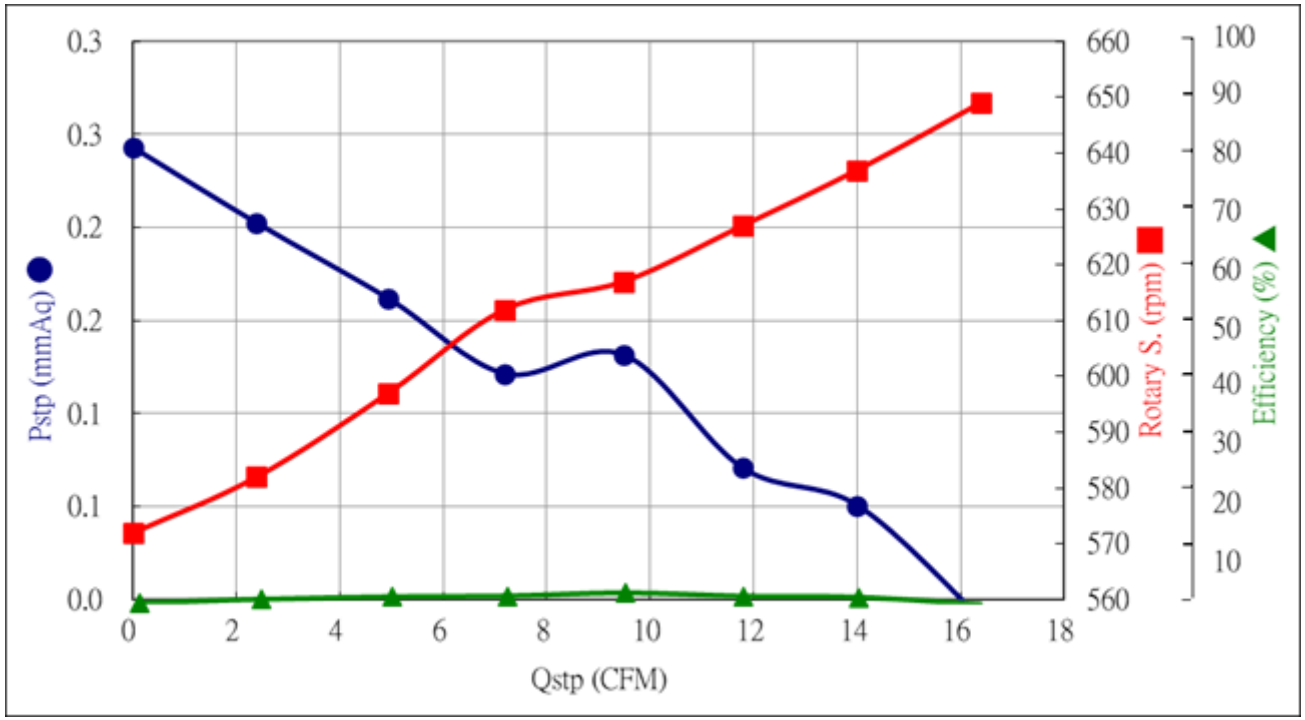
PQ Chart 10% Speed



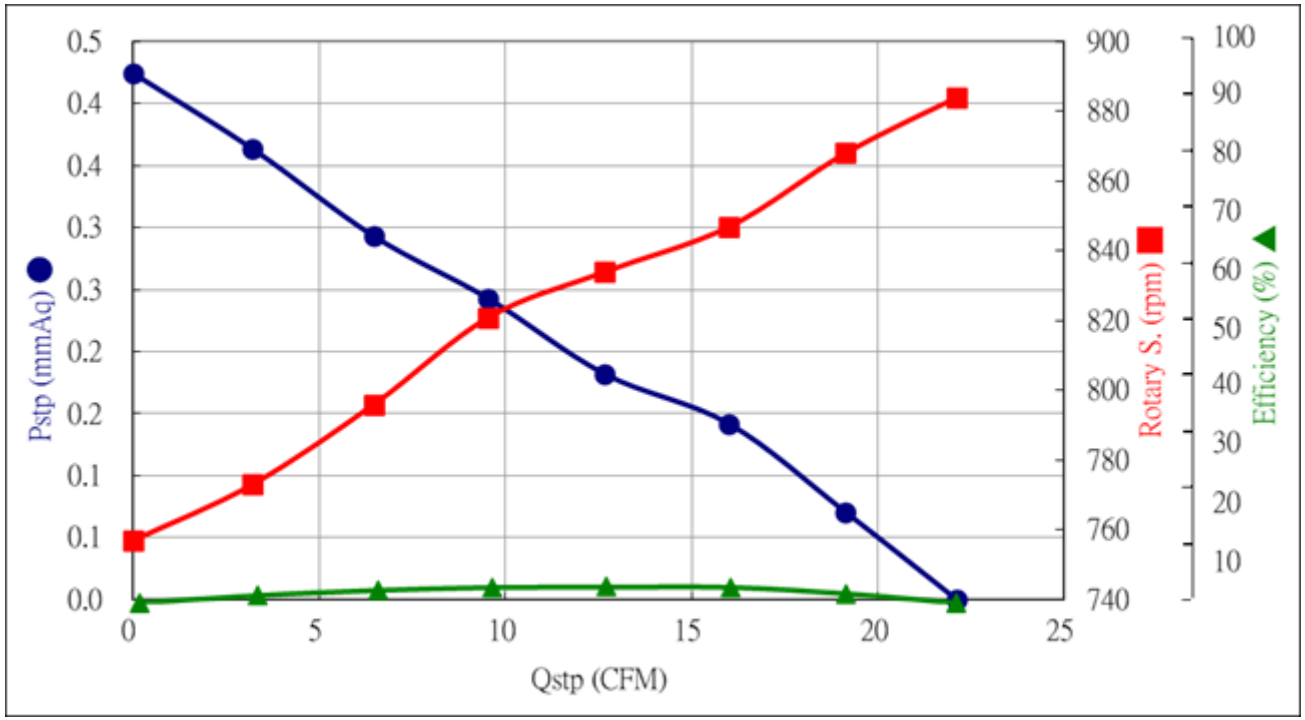
PQ Chart 20% Speed



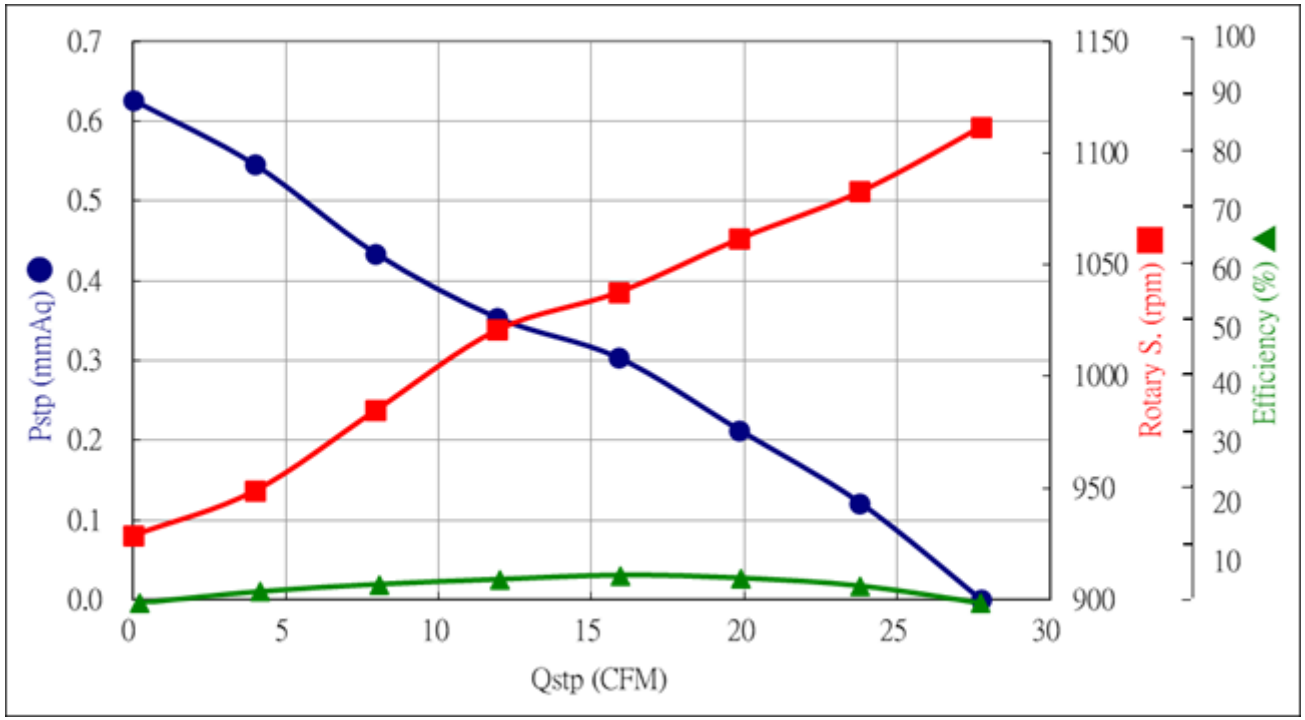
PQ Chart 30% Speed



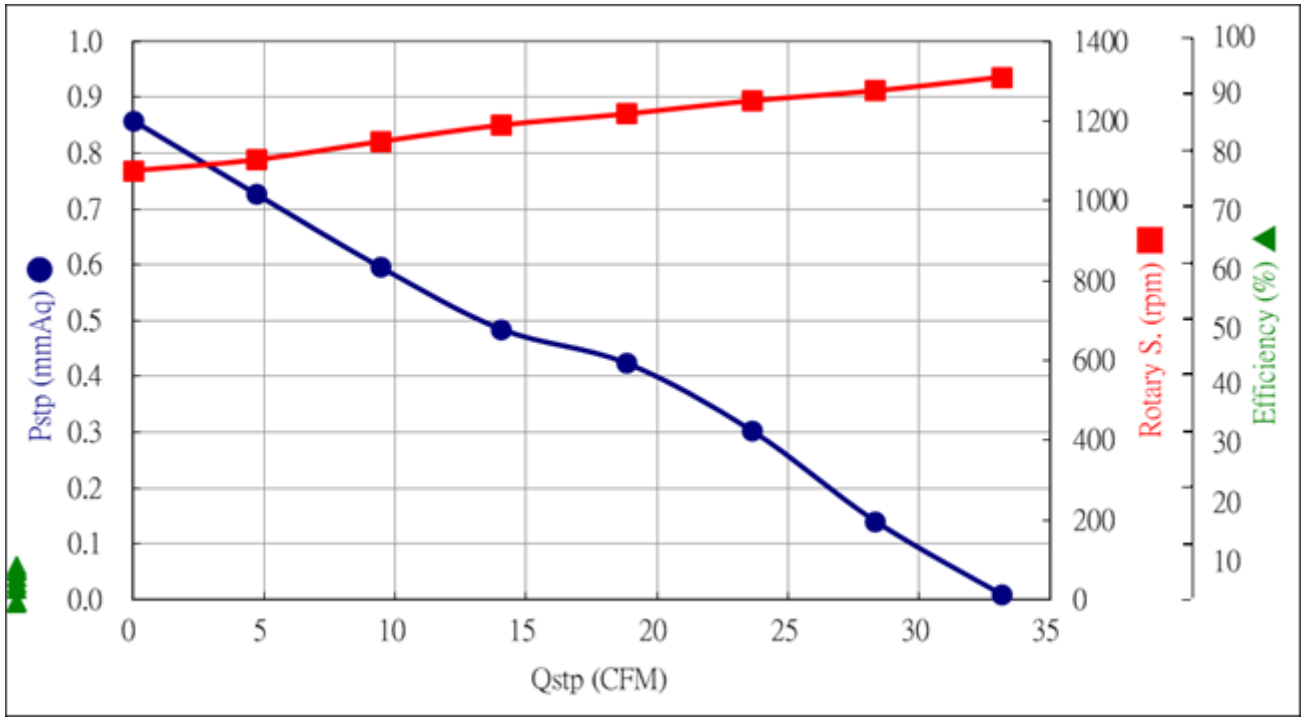
PQ Chart 40% Speed



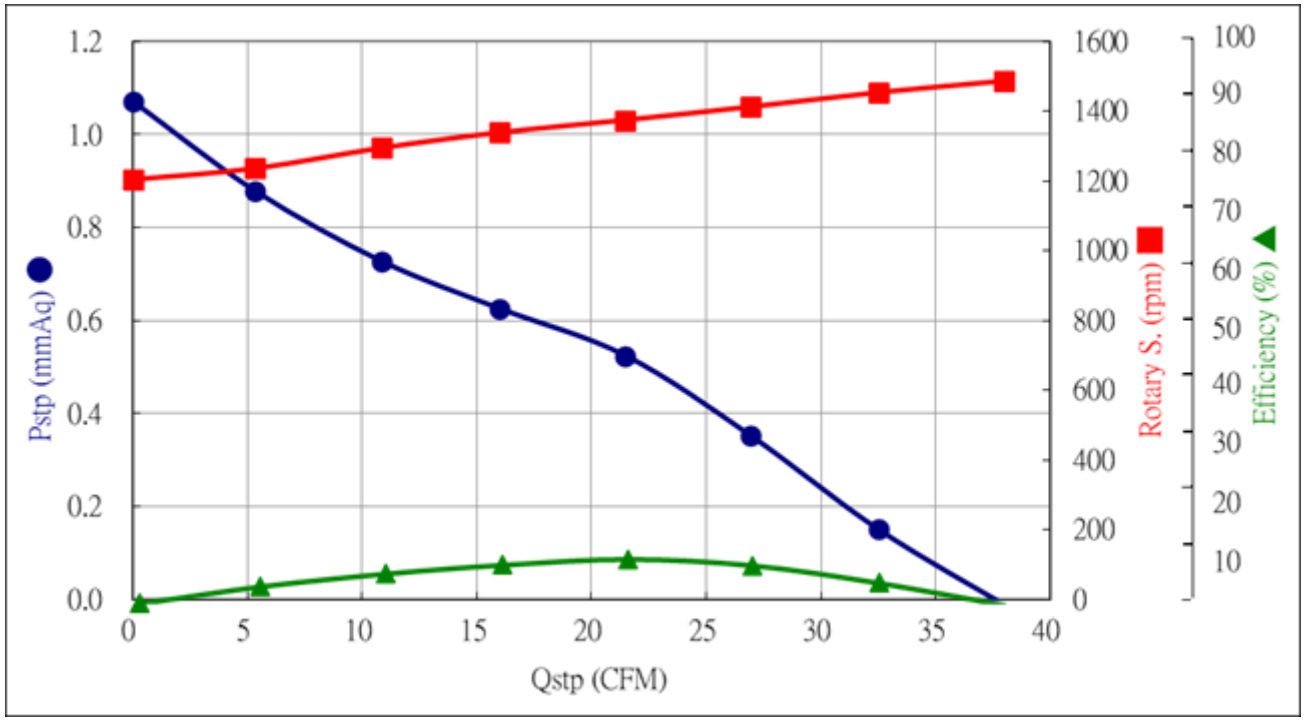
PQ Chart 50% Speed



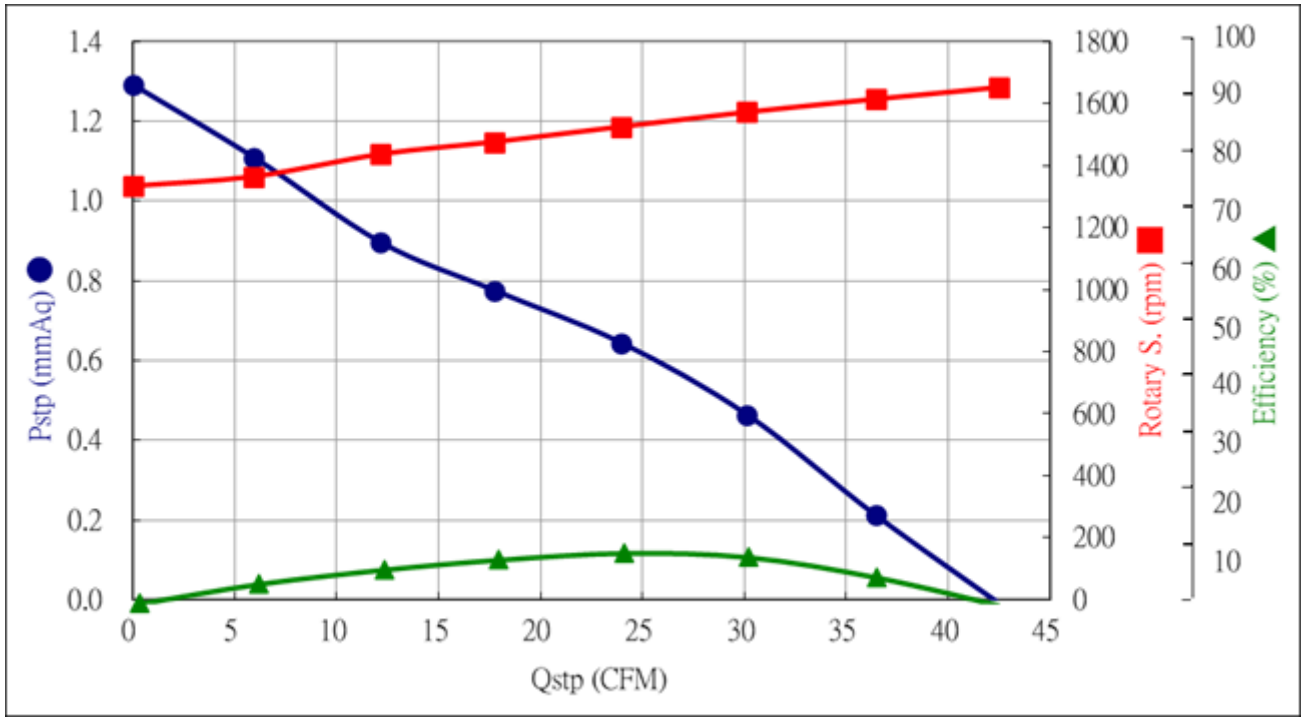
PQ Chart 60% Speed



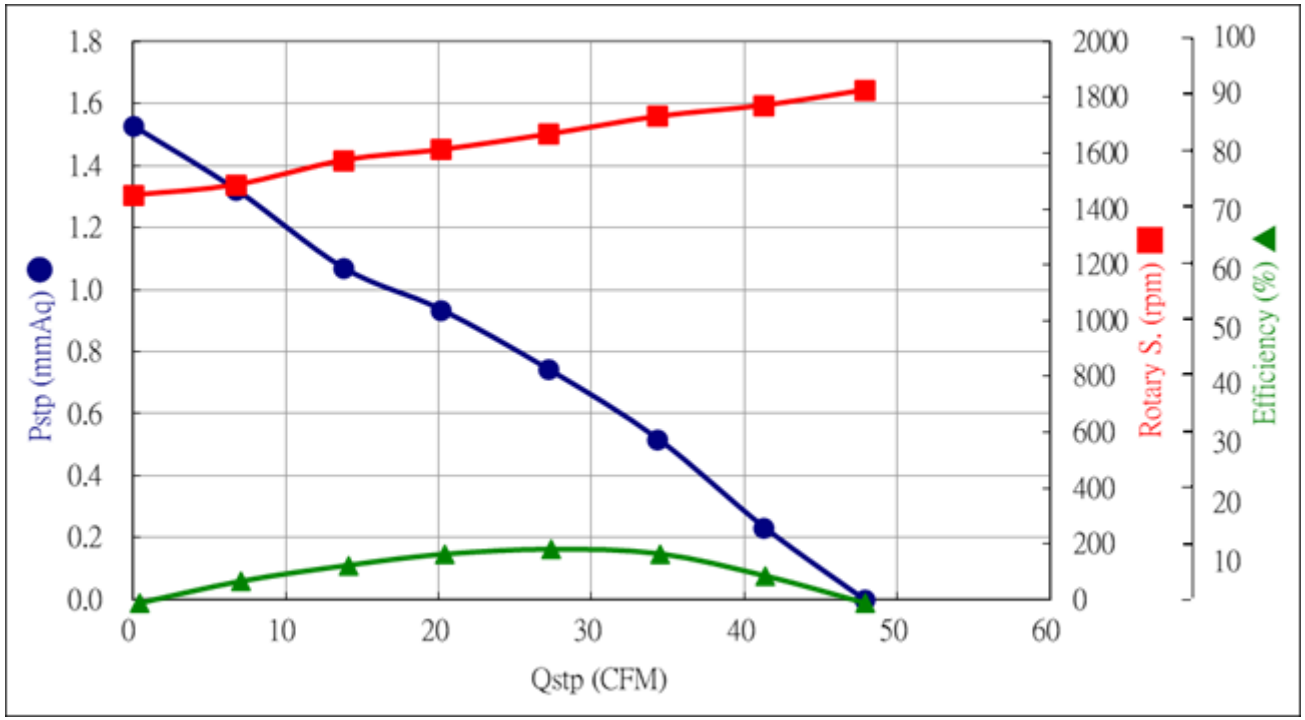
PQ Chart 70% Speed



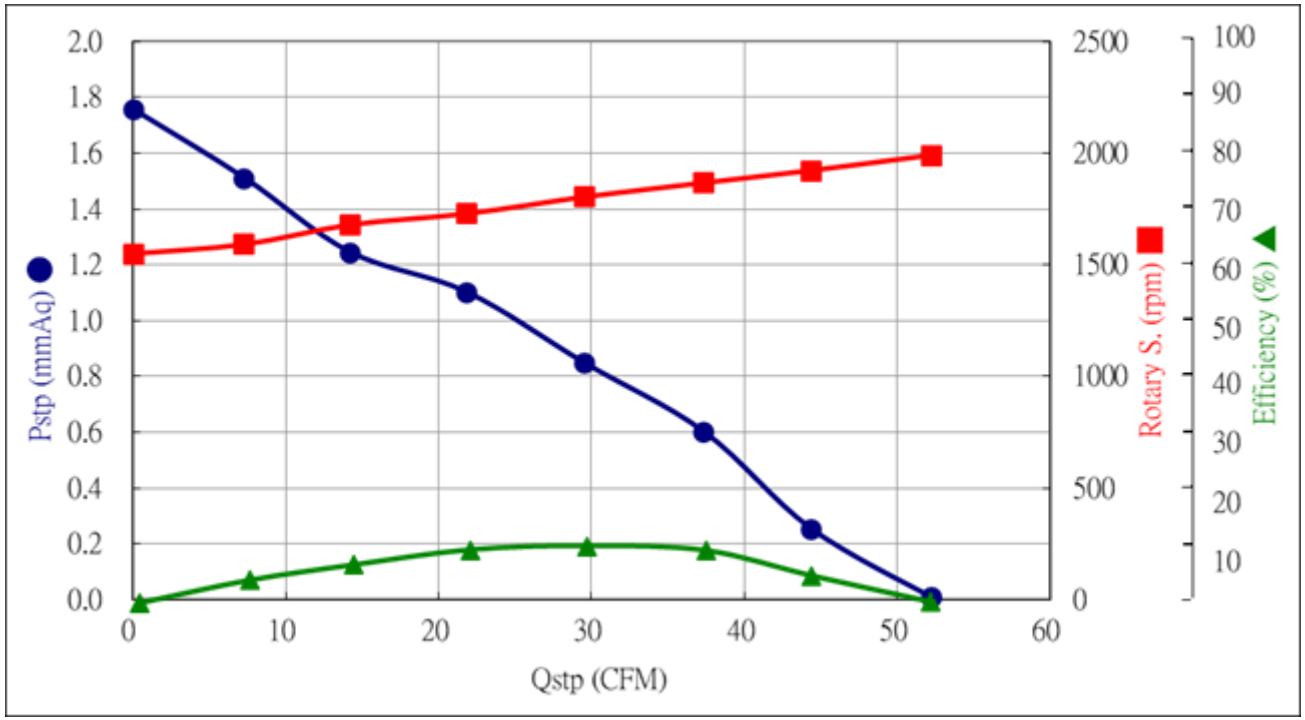
PQ Chart 80% Speed



PQ Chart 90% Speed

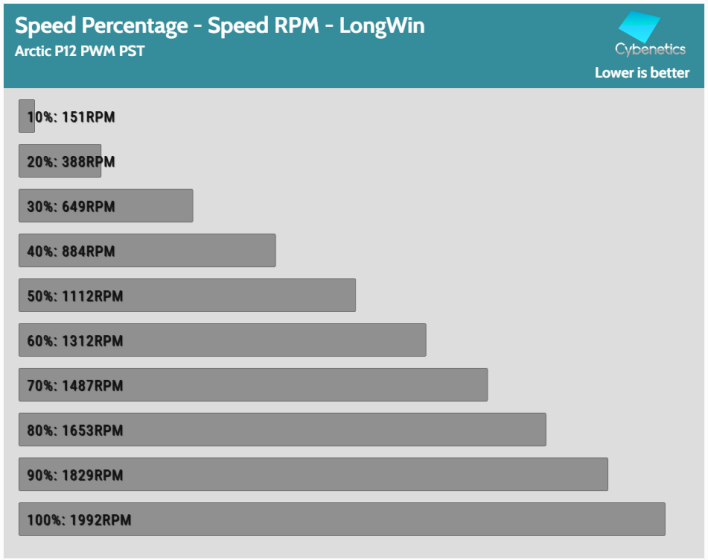


PQ Chart 100% Speed

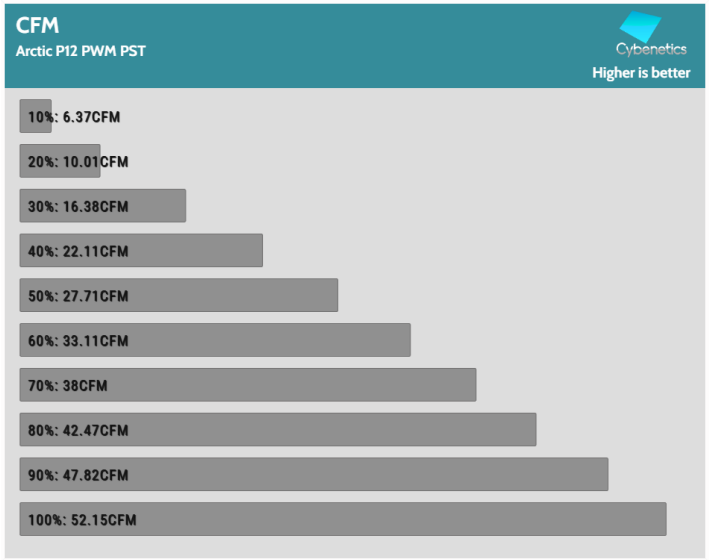


SECTION F: General Performance

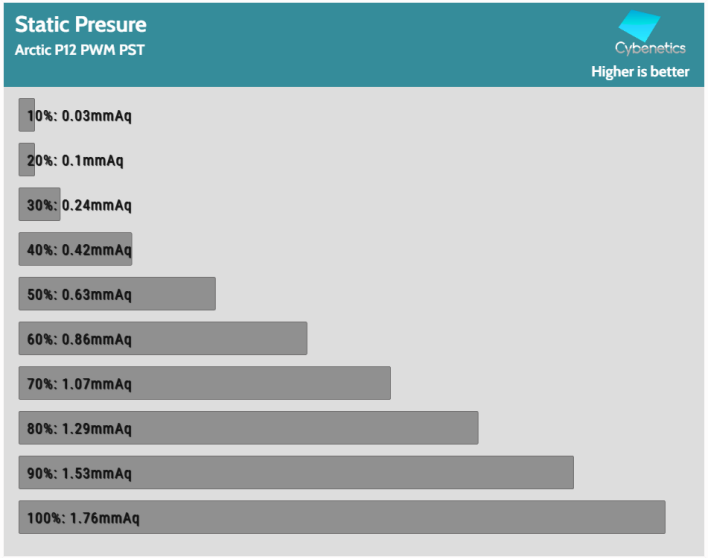
Fan Percentage RPM LongWin



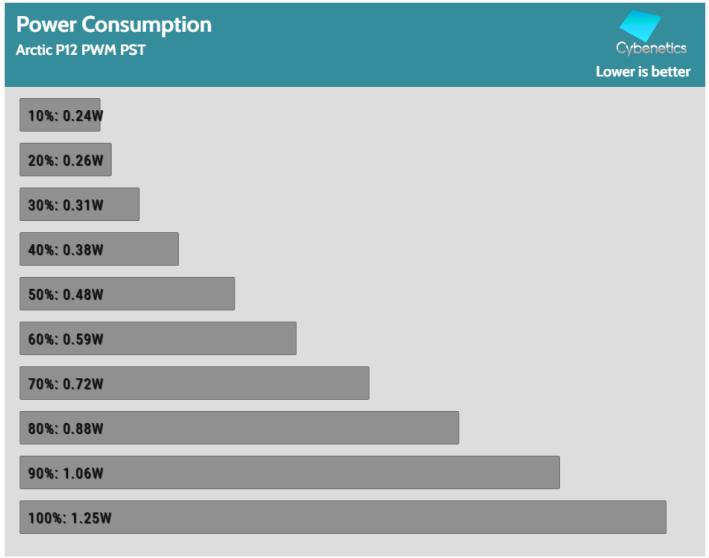
Fan Percentage CFM



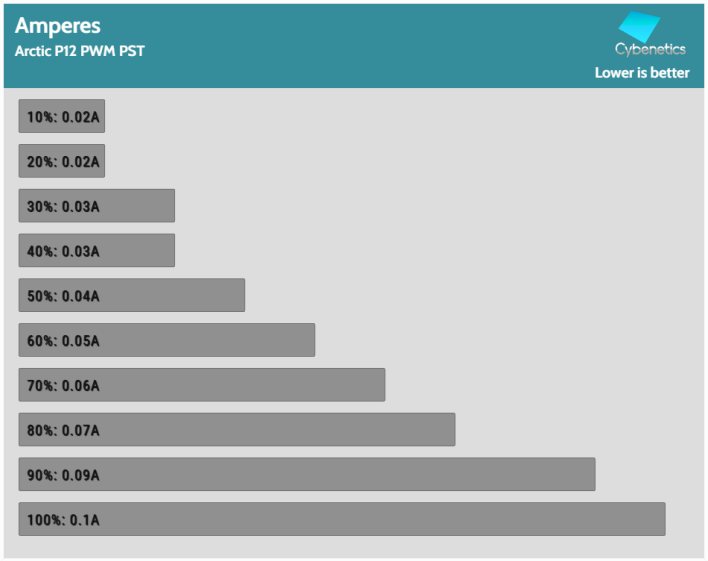
Fan Percentage Pressure



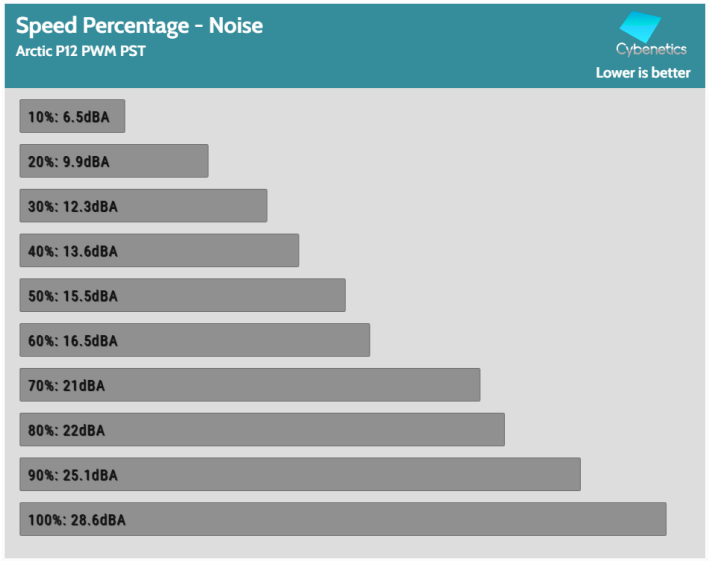
Fan Percentage Power



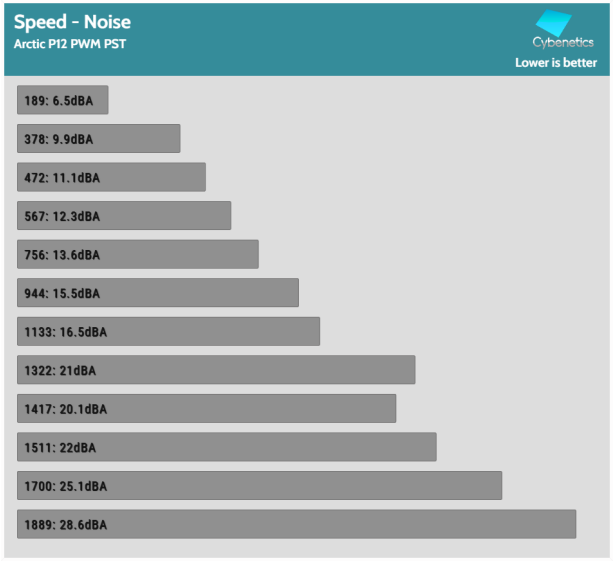
Fan Percentage Amps



Fan Percentage Noise



Fan Speed Noise



Fan Noise Speed



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.





1 P12 PWM PST

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）

CYBENETICS LTD Syrou 6, Latsia, 2231, Nicosia Cyprus

www.cybenetics.com - info@cybenetics.com