



FAN TESTING MACHINE TECHNICAL SPECIFICATIONS

Manufacturer	Long Win Science & Technology Corporation
Model Number	LW-9266
Air Flow Rate	2.4 - 250 CFM
Accuracy of Air Flow Range	< 3.5% INFS
Repeatability error	< 2%
Static pressure	0-20mmAq (100mmAq with the high static pressure throttle device)
Overall Dimensionsr	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

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Evaluation Report

NF-A12x25 PWM

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	Noctua
Model	NF-A12x25 PWM
Max Speed (RPM)	2132
Max Airflow (CFM)	56.11
Max Static Pressure (mmAq)	2.21
Max Fan Noise Level	31.9
Fan Bearing Type	SSO2
Fan Connector	PWM
Fan Max Current (A)	0.12
Fan Weight (gr)	250
Dimensions (W x H x D)	120x120x25 mm
Fan daisy-chain connector	x
Cable length (mm)	0

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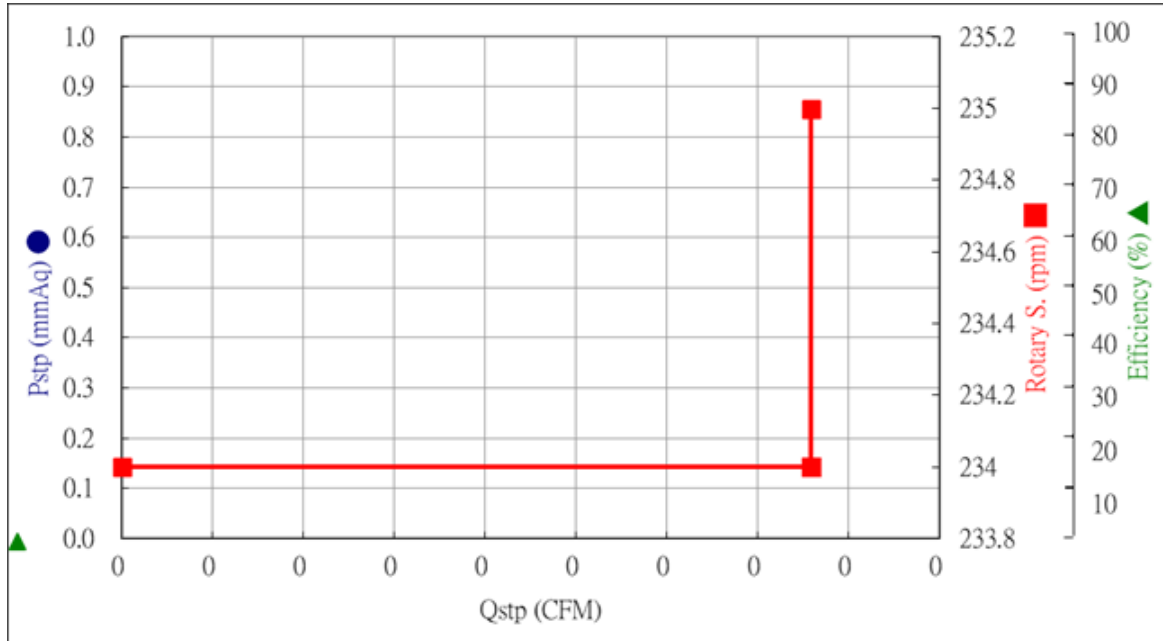
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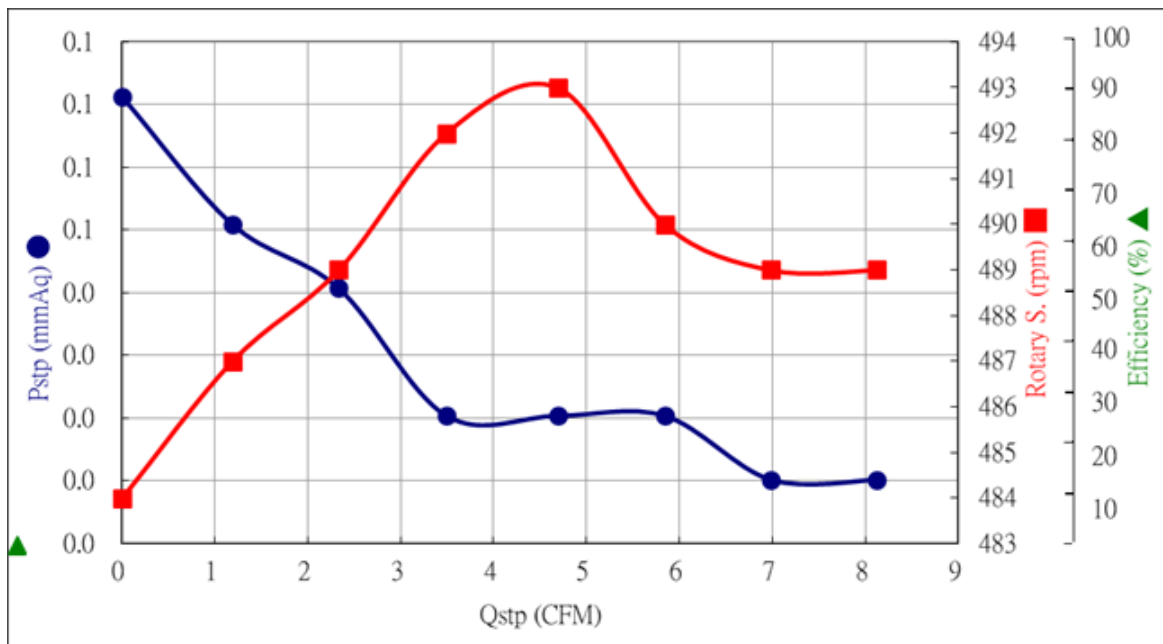
Evaluation Report

NF-A12x25 PWM

PQ Chart 10% Speed



PQ Chart 20% Speed

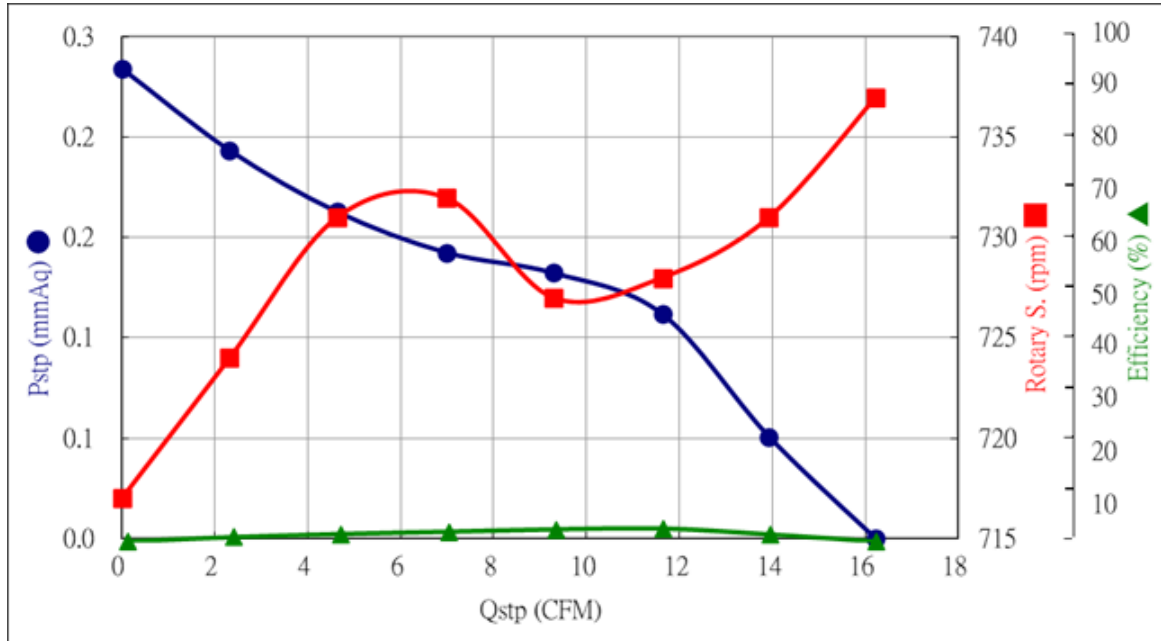


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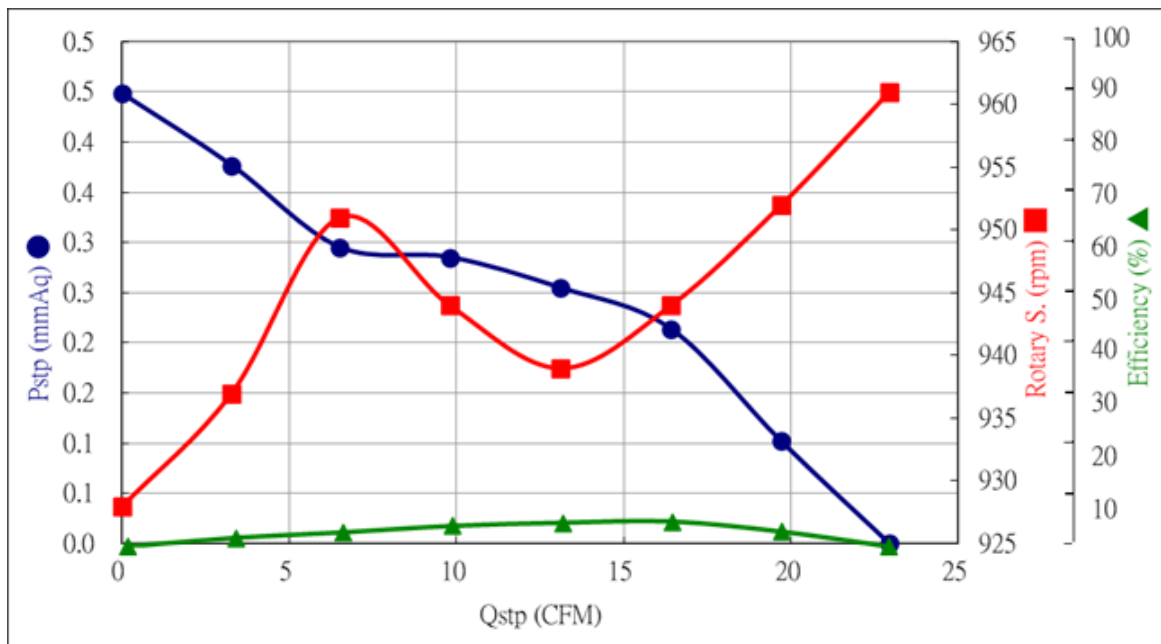
Evaluation Report

NF-A12x25 PWM

PQ Chart 30% Speed



PQ Chart 40% Speed



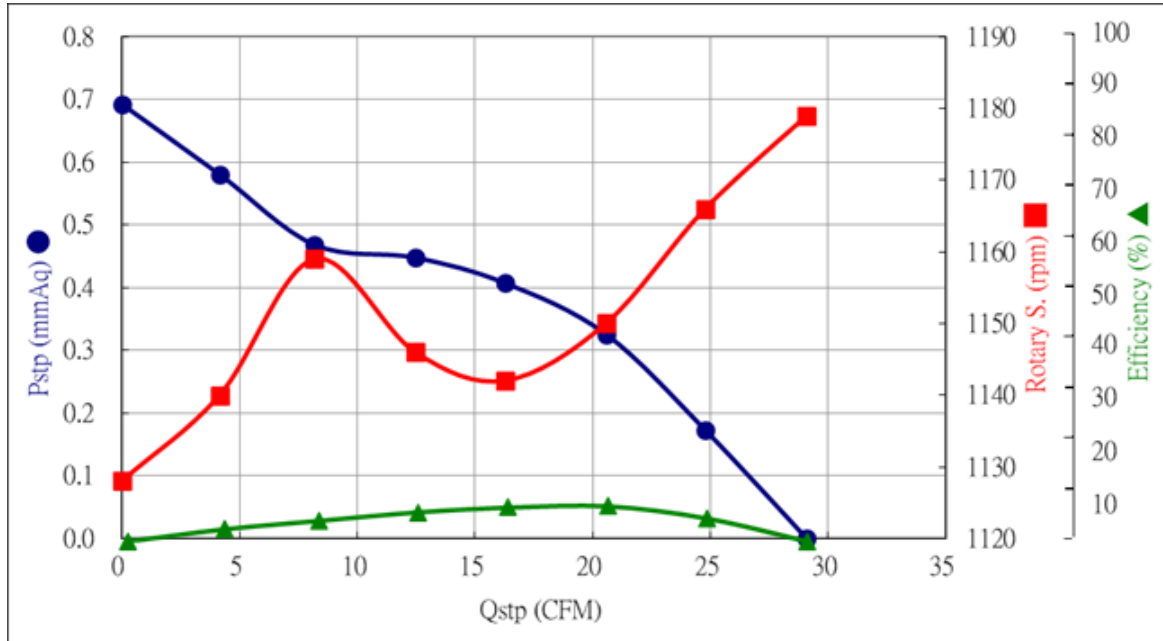
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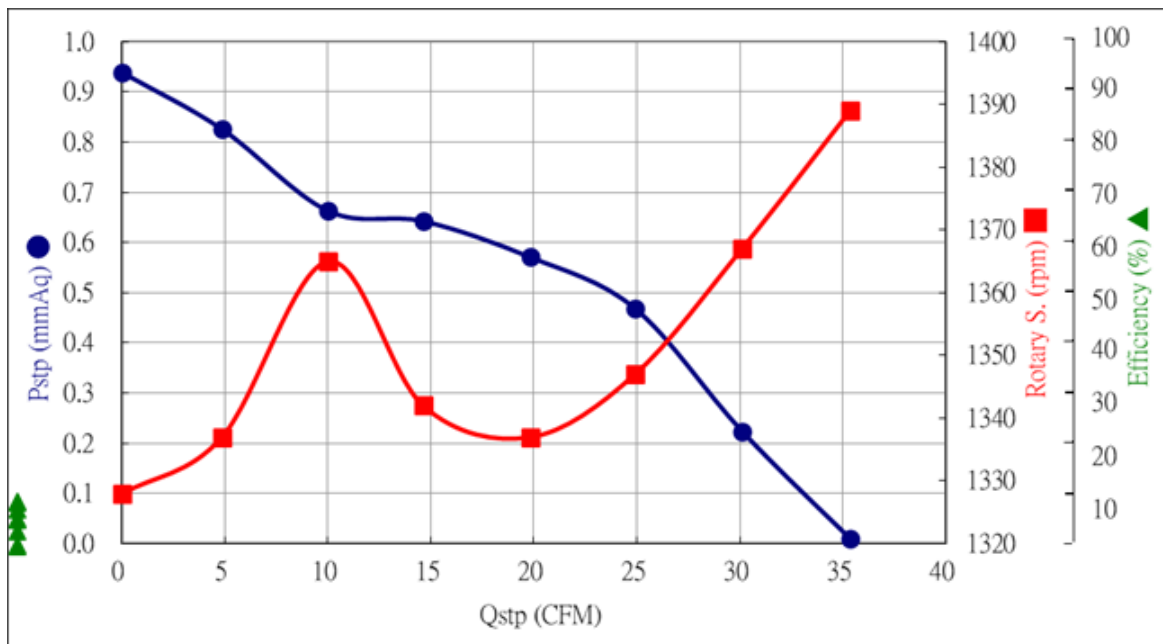
Evaluation Report

NF-A12x25 PWM

PQ Chart 50% Speed



PQ Chart 60% Speed



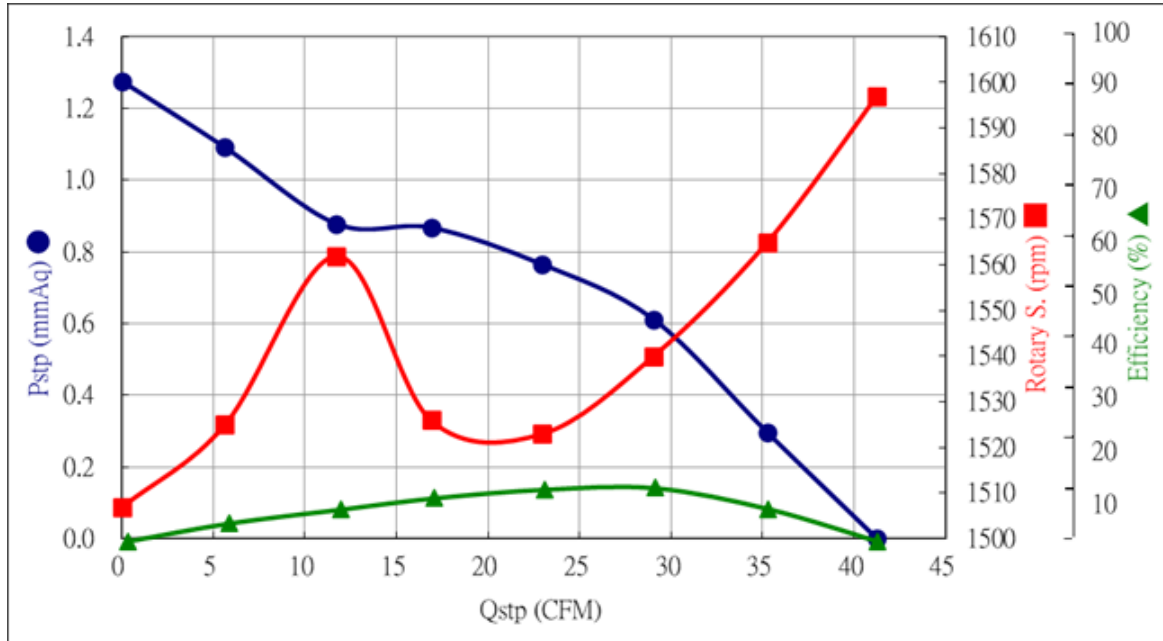
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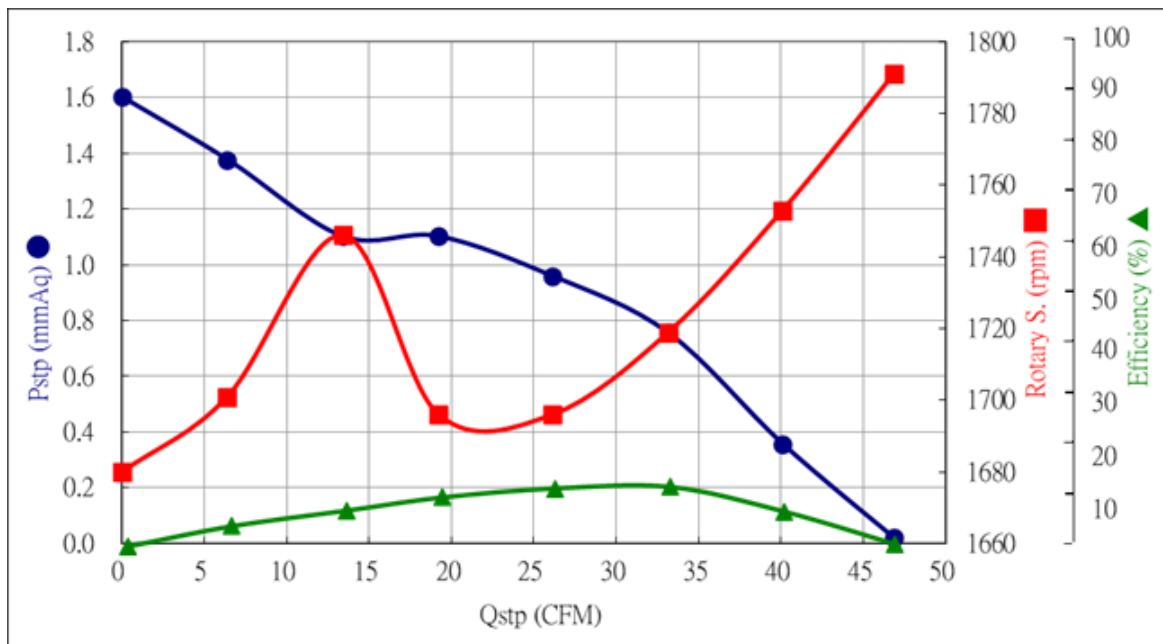
Evaluation Report

NF-A12x25 PWM

PQ Chart 70% Speed



PQ Chart 80% Speed



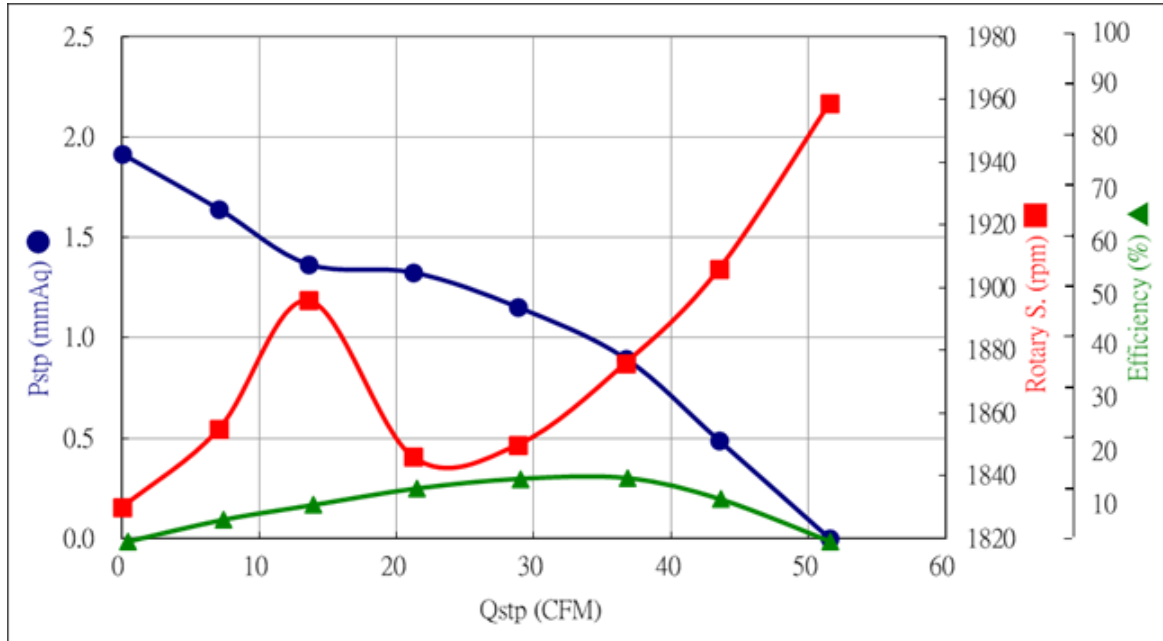
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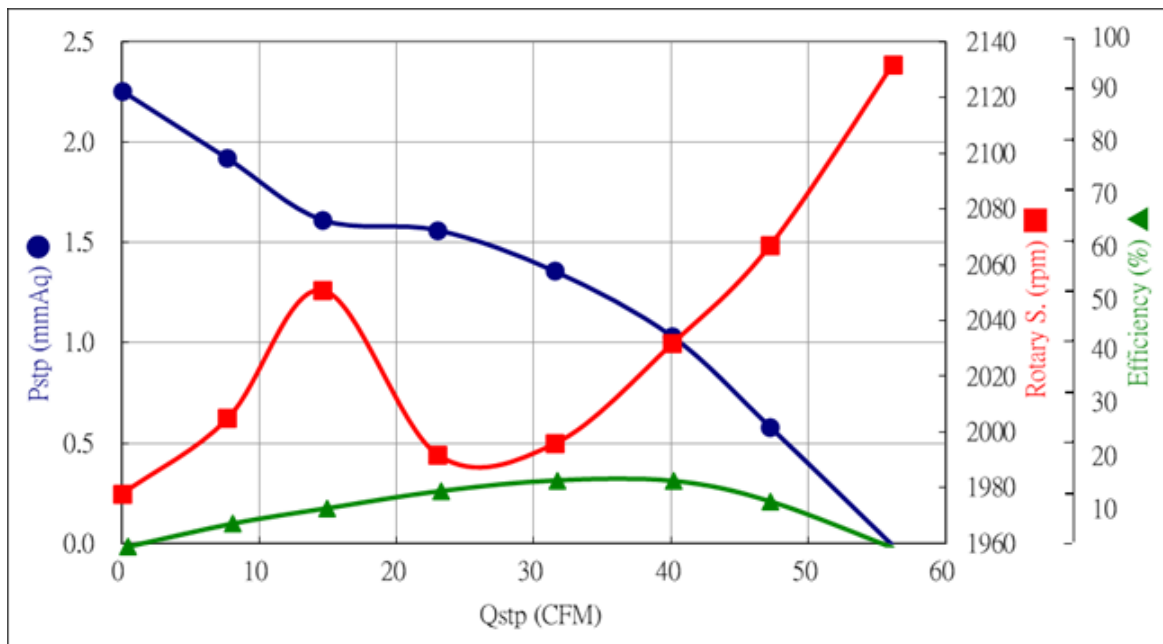
Evaluation Report

NF-A12x25 PWM

PQ Chart 90% Speed



PQ Chart 100% Speed



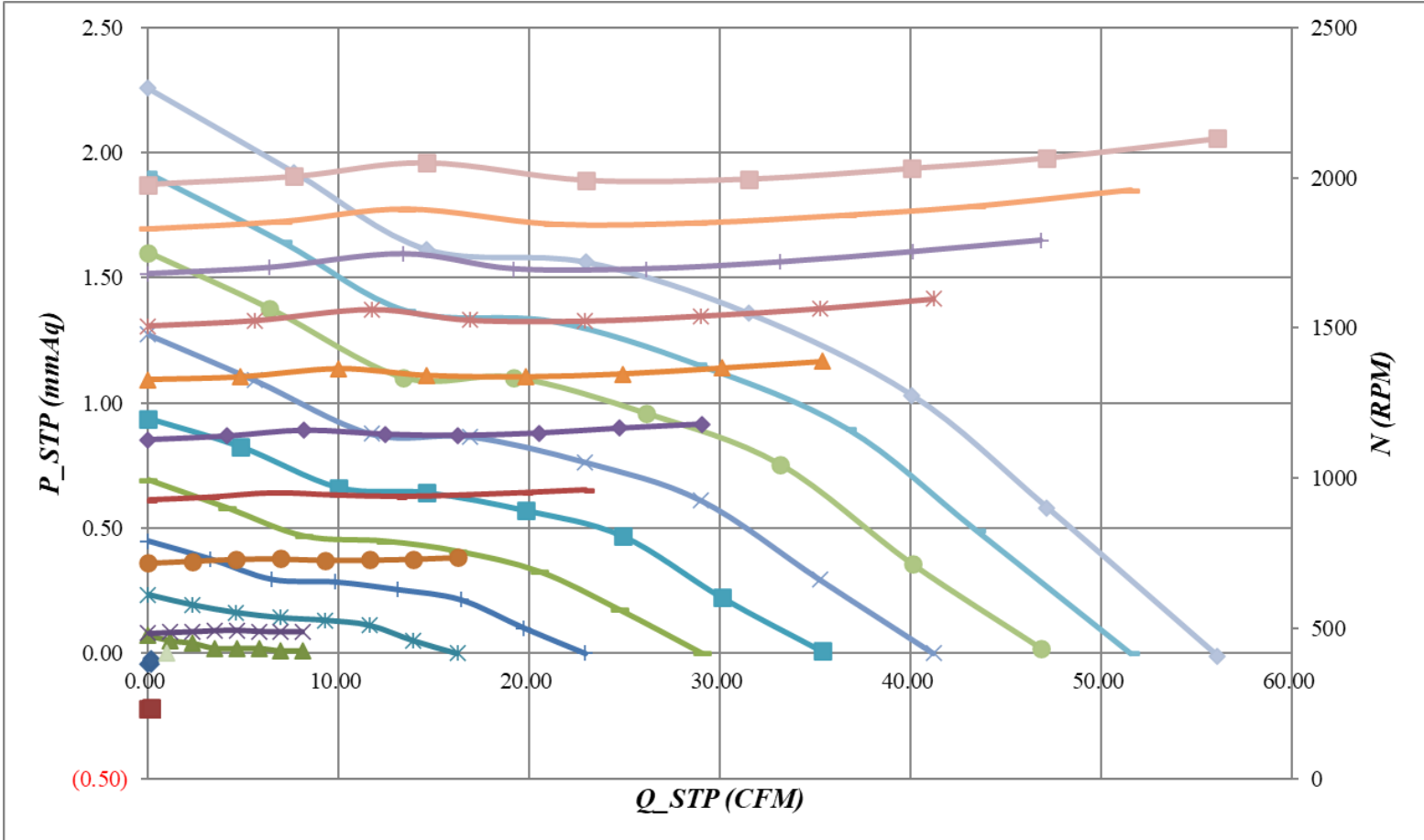
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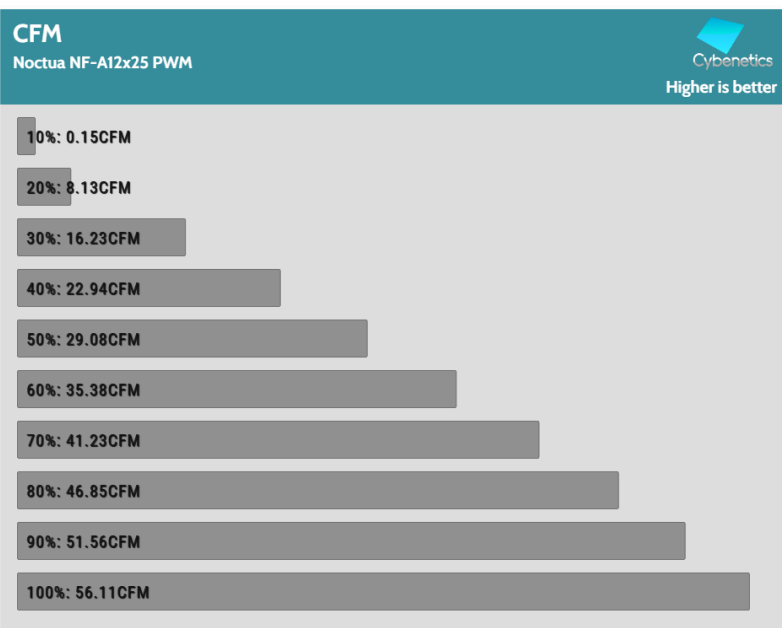
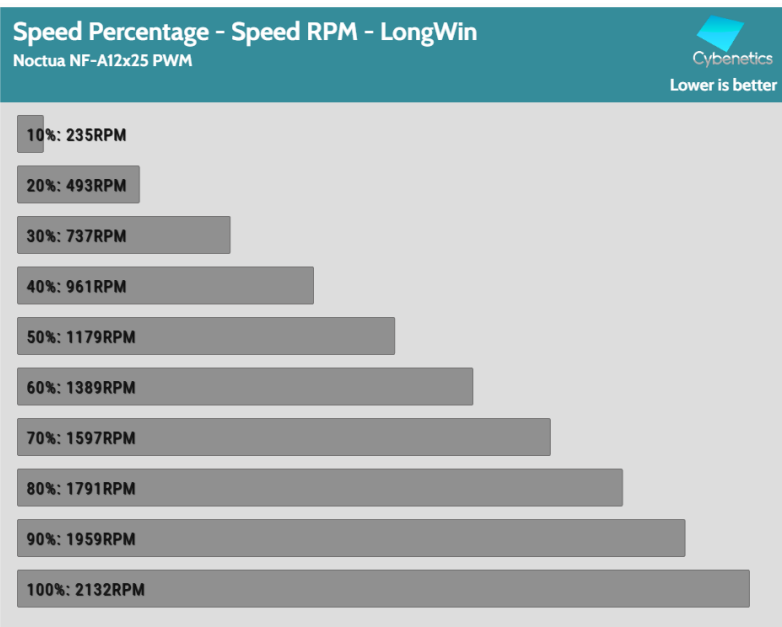
Evaluation Report

NF-A12x25 PWM

PQ Chart All Speed



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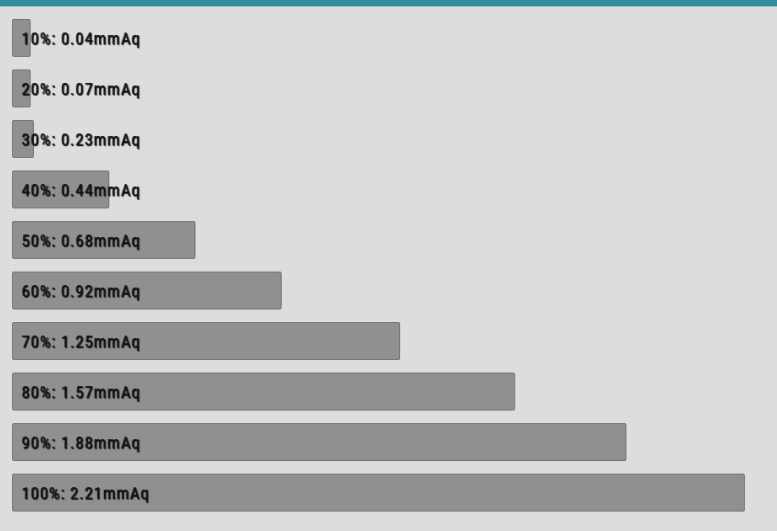
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Static Pressure

Noctua NF-A12x25 PWM



Higher is better



Power Consumption

Noctua NF-A12x25 PWM

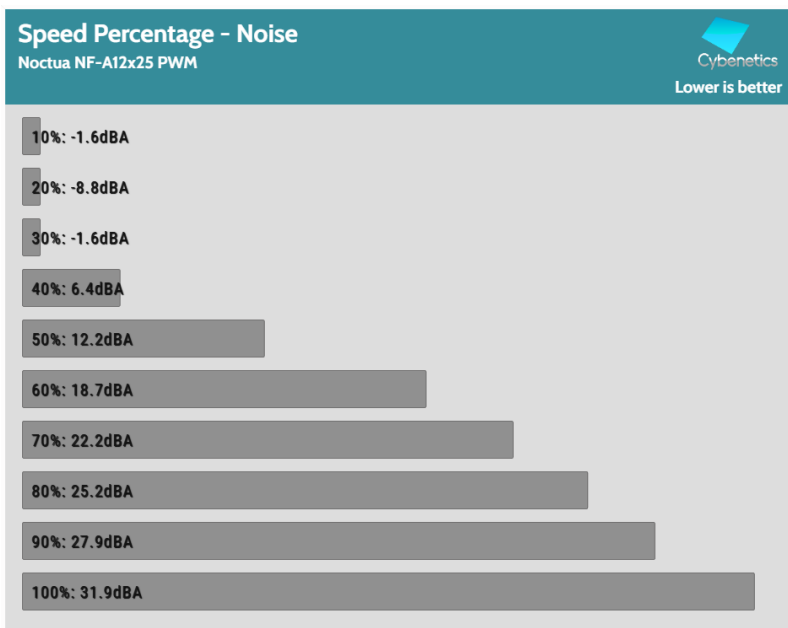
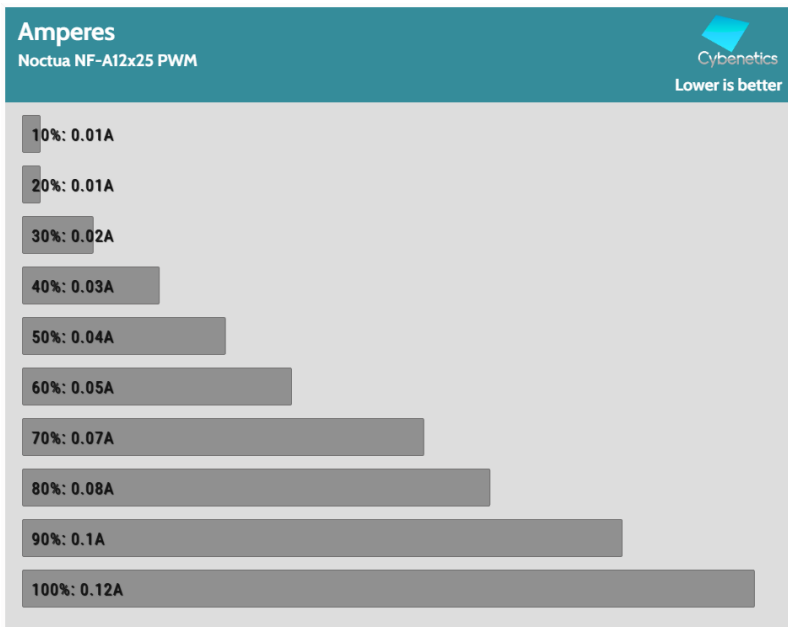


Lower is better



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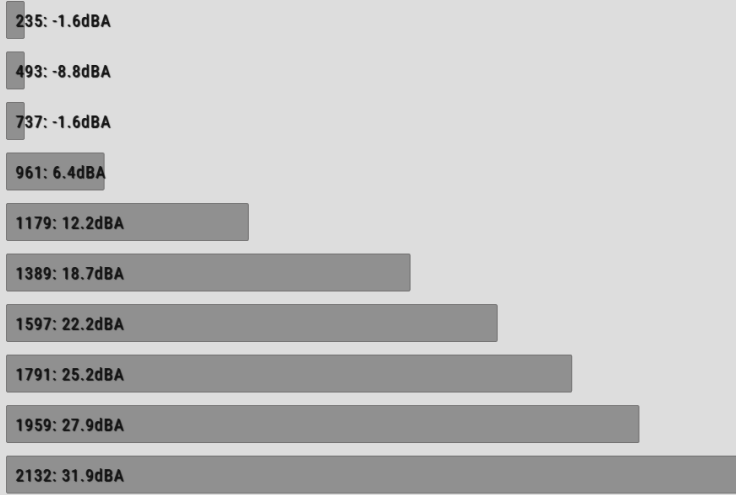
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Speed - Noise
Noctua NF-A12x25 PWM



Cybenetics
Lower is better



Noise - Speed RPM
Noctua NF-A12x25 PWM



Cybenetics
Lower is better



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