

Evaluation Report

EK-Quantum Impulse 120 D-RGB



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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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	EKWB
Model	EK-Quantum Impulse 120 D-RGB
Max Speed (RPM)	1852
Max Airflow (CFM)	49.64
Max Static Pressure (mmAq)	1.93
Max Fan Noise Level	33.7
Fan Bearing Type	Vapo
Fan Connector	PWM
Fan Max Current (A)	0.13
Fan Weight (gr)	196
Dimensions (W x H x D)	120 x 120 x 26
Fan daisy-chain connector	X
Cable length (mm)	0

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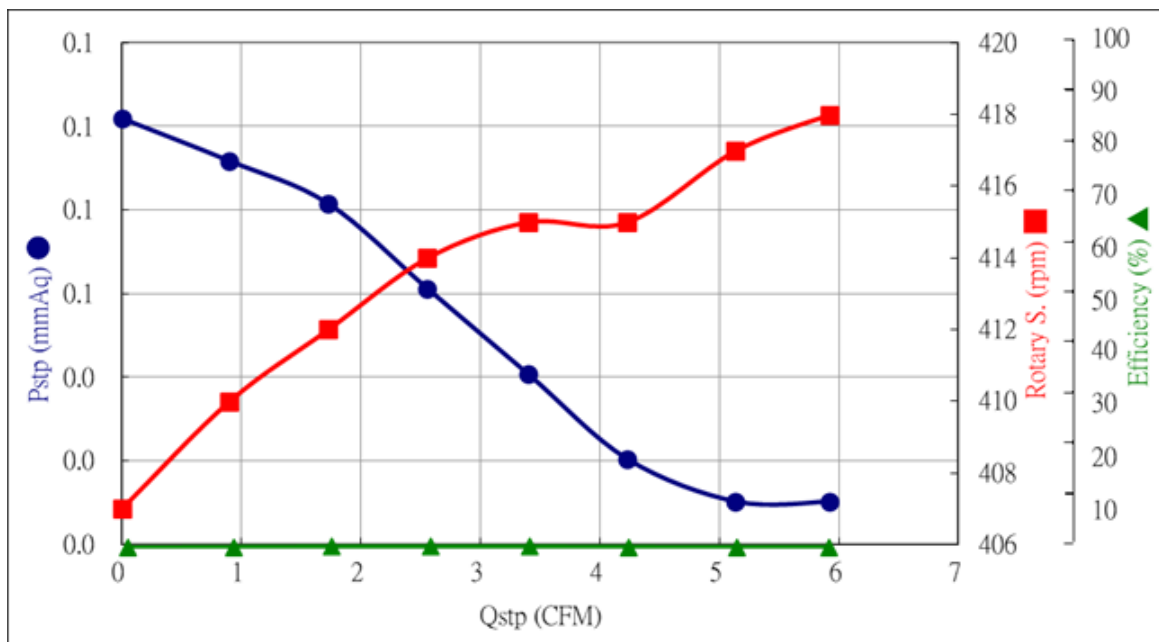
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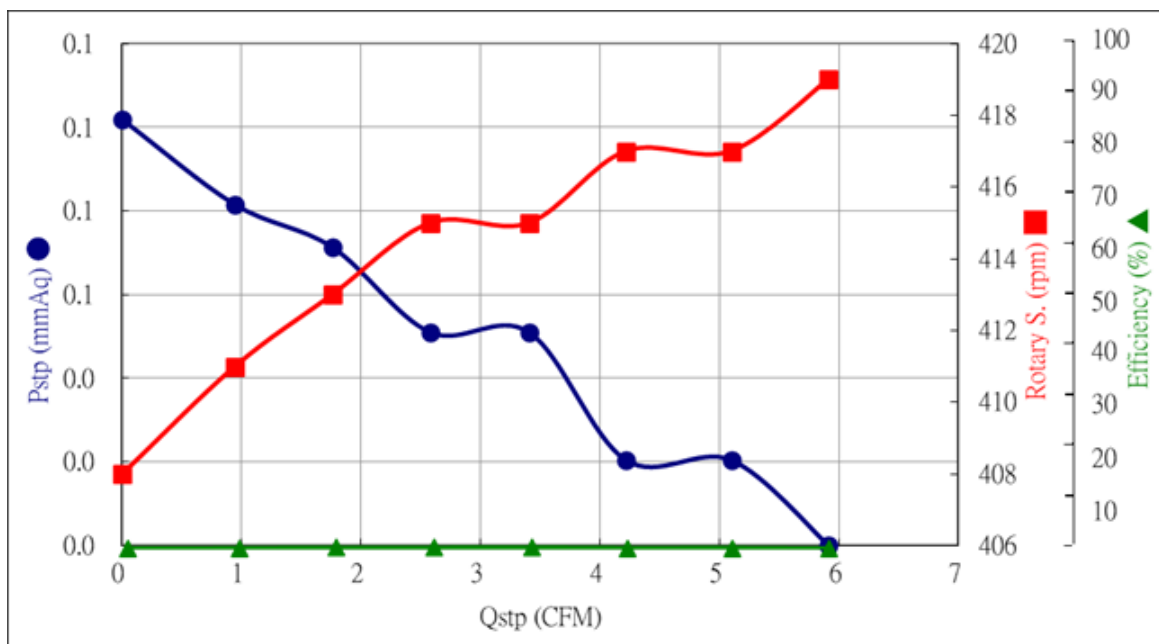
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PQ Chart 10% Speed



PQ Chart 20% Speed



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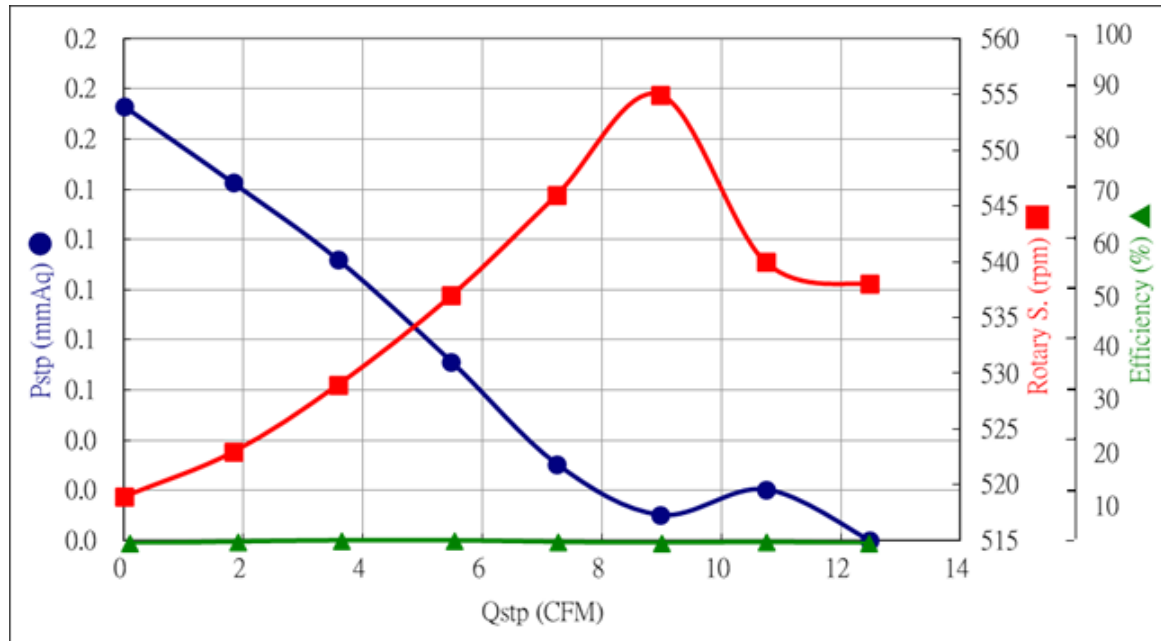
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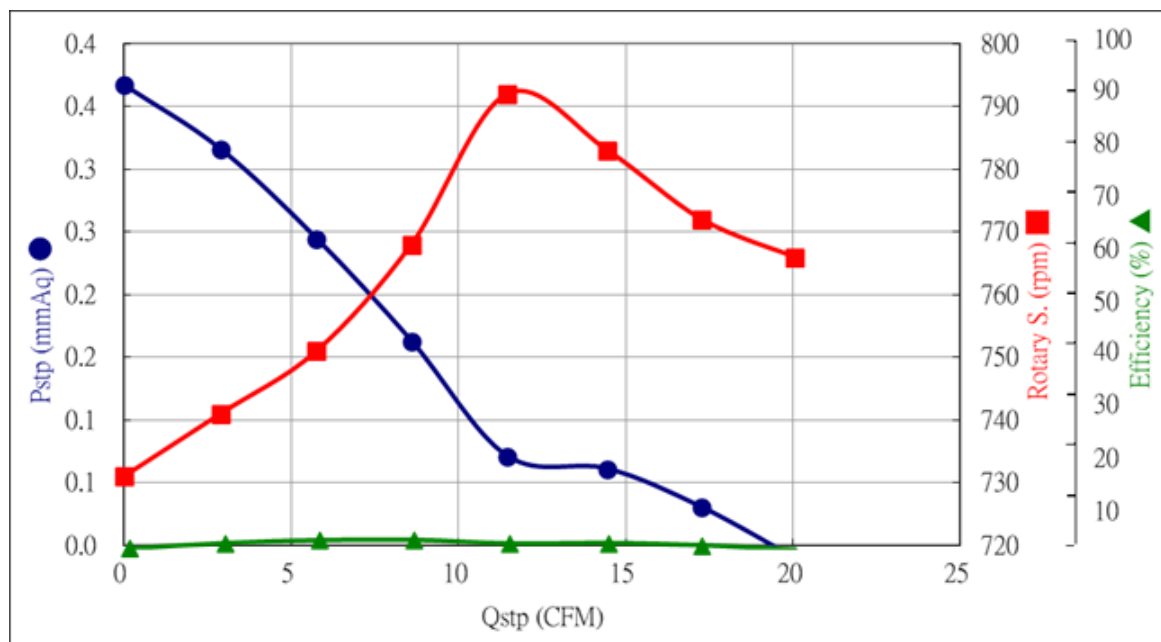
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PQ Chart 30% Speed



PQ Chart 40% Speed



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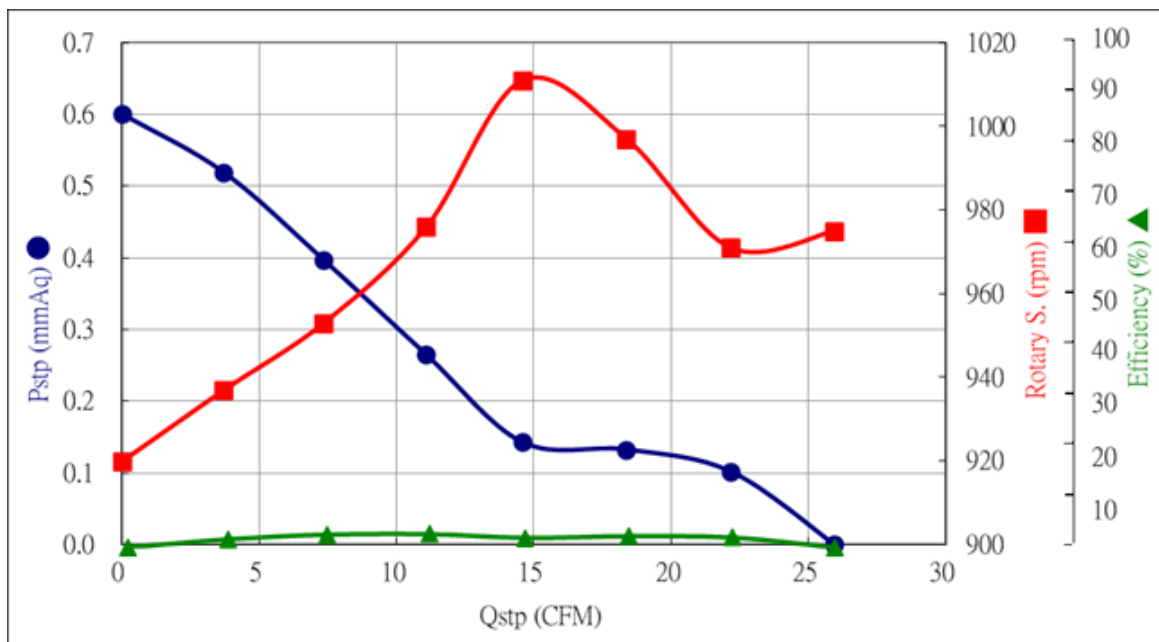
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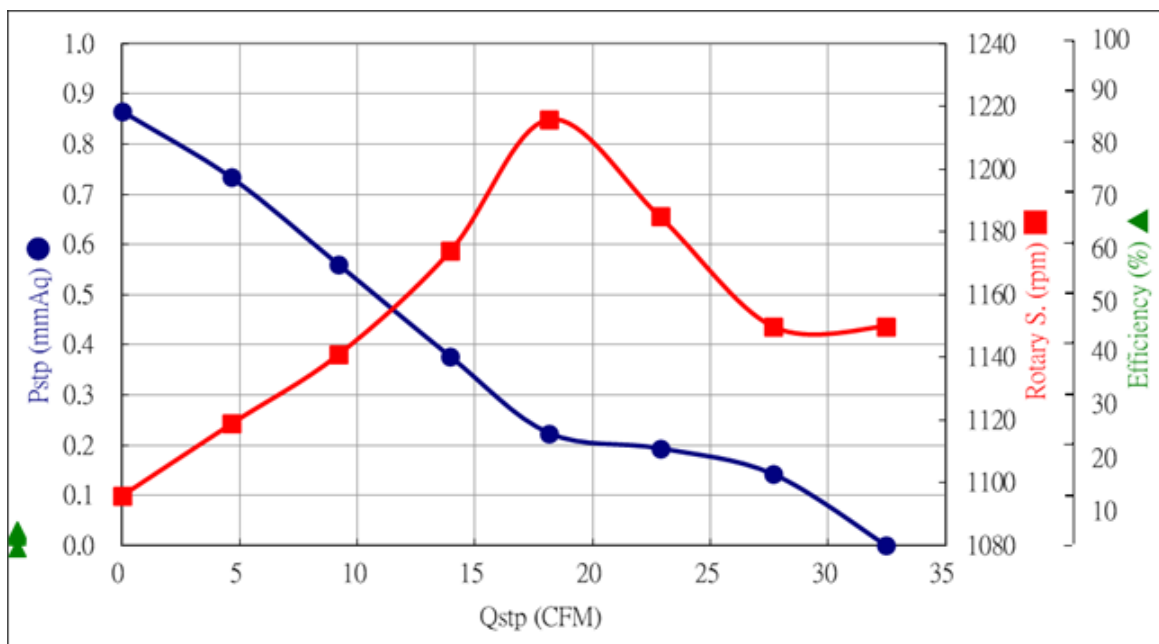
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PQ Chart 50% Speed



PQ Chart 60% Speed



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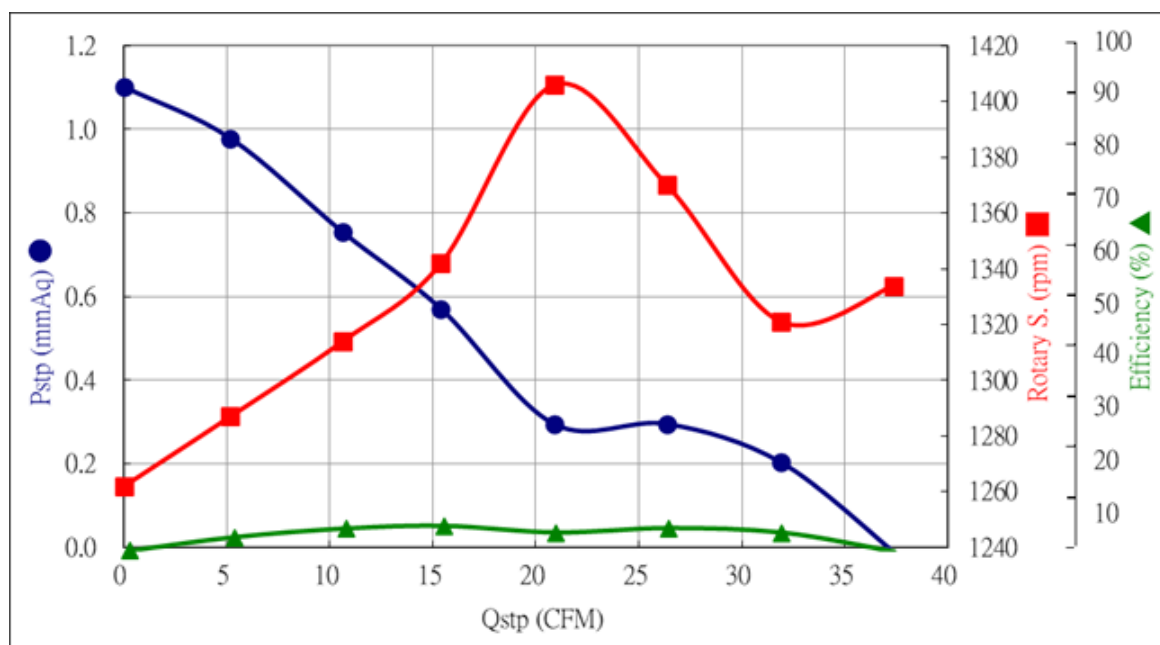
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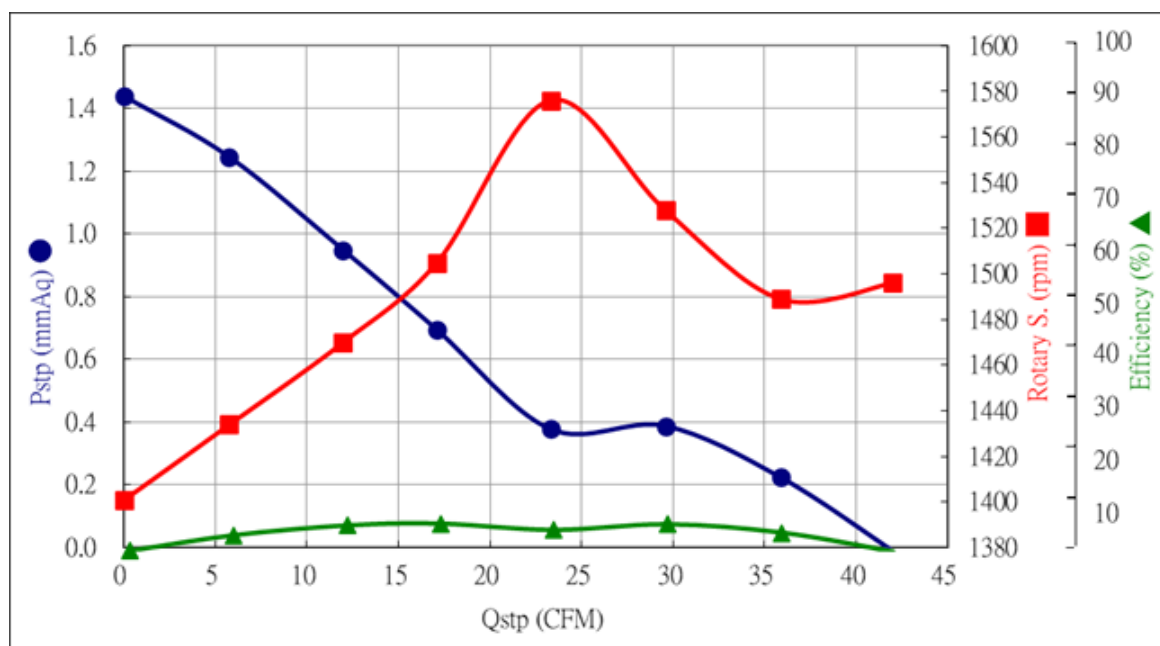
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PQ Chart 70% Speed



PQ Chart 80% Speed



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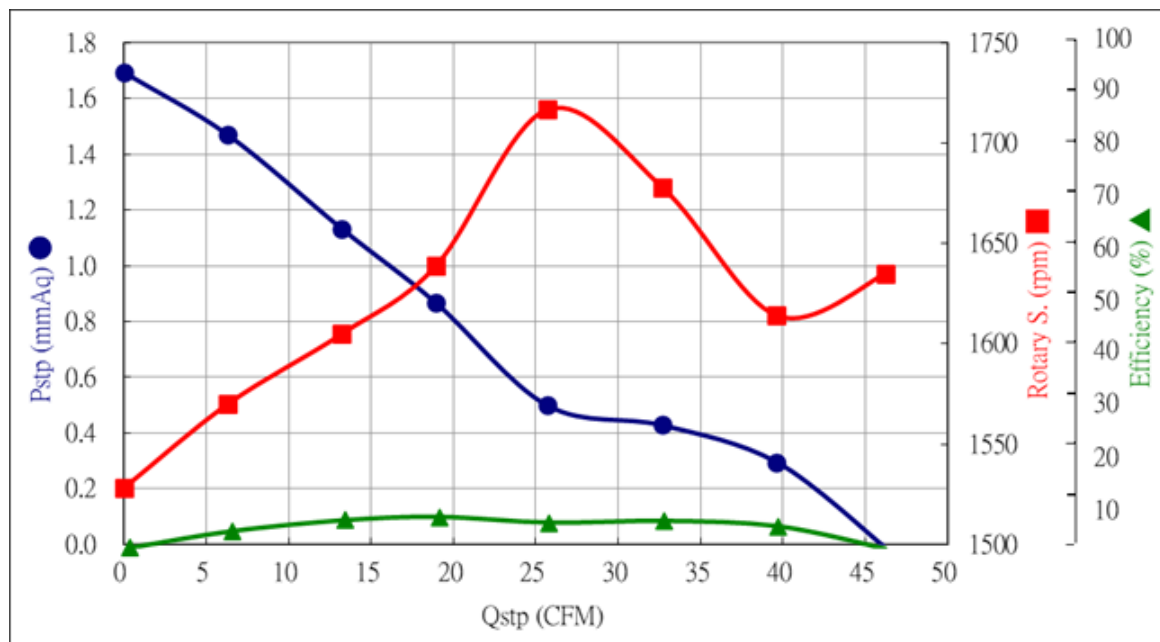
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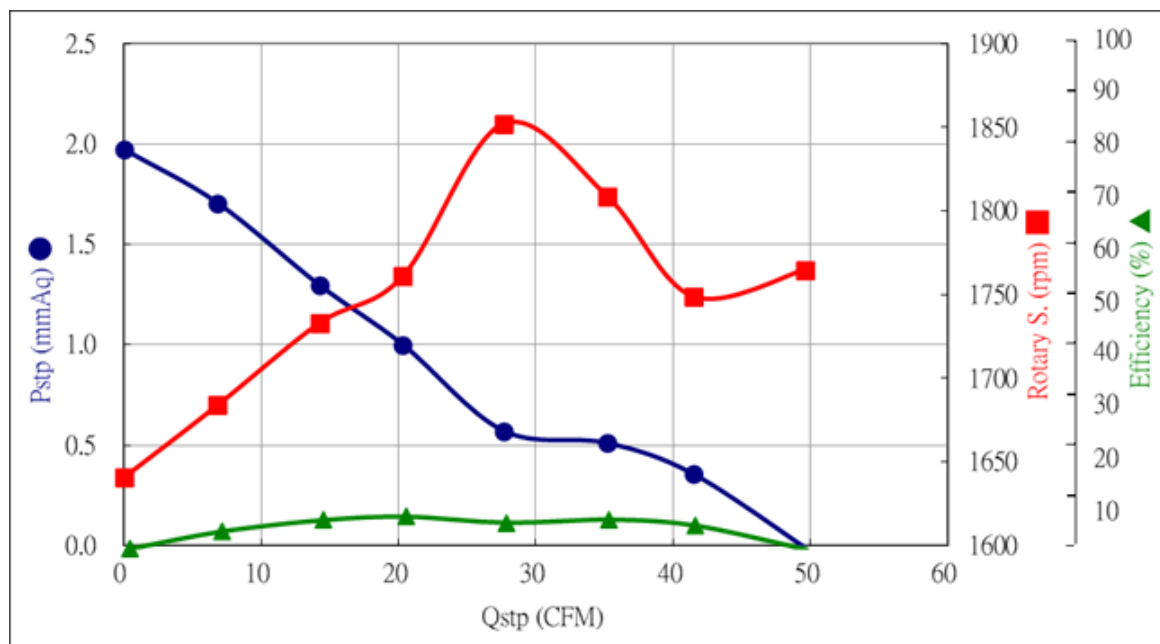
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PQ Chart 90% Speed



PQ Chart 100% Speed



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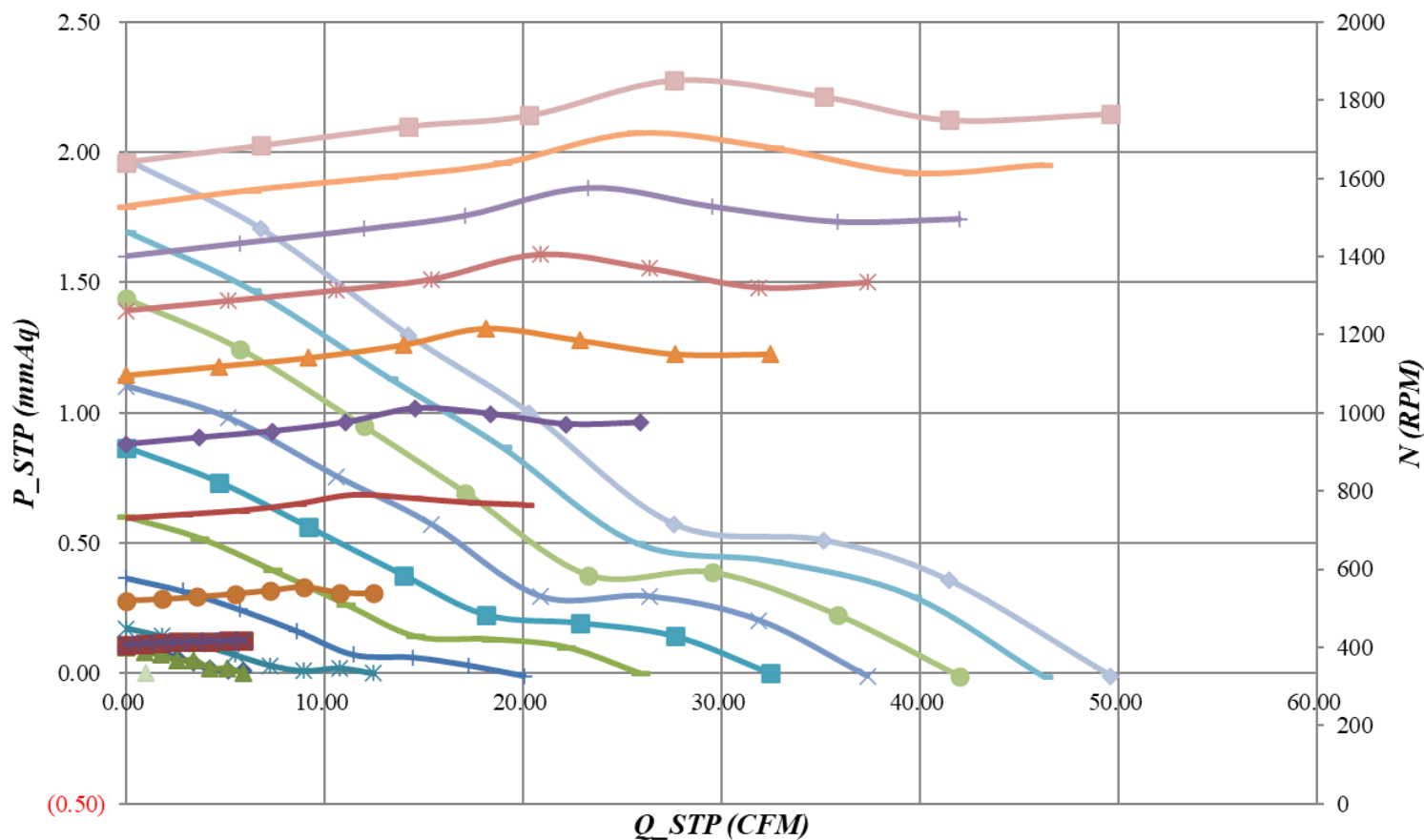
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PQ Chart All Speed



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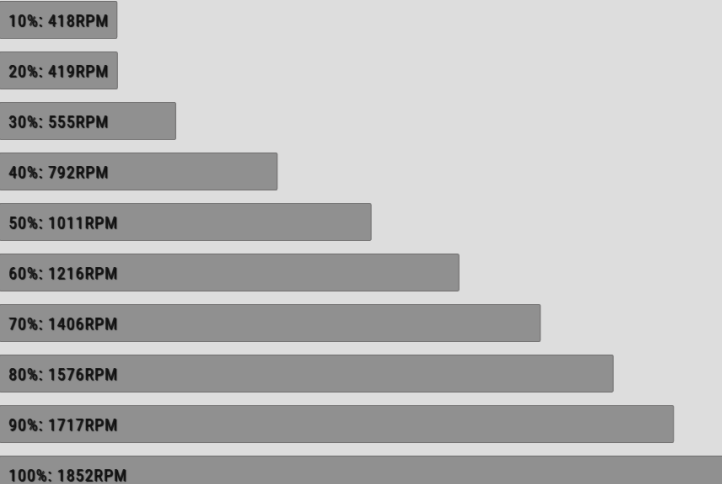
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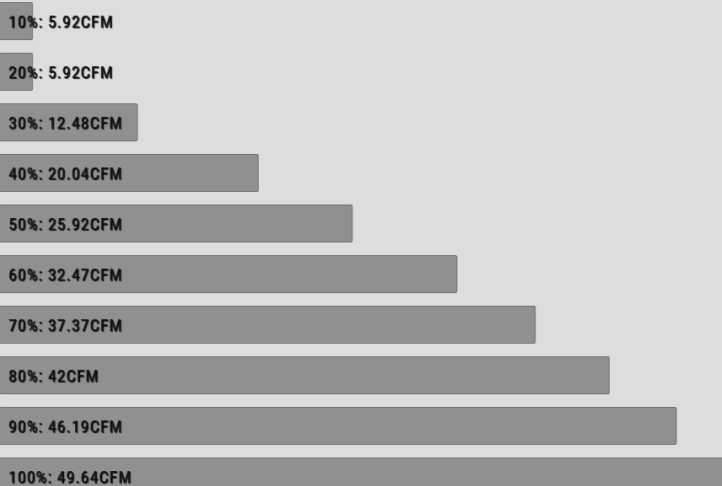
Speed Percentage - Speed RPM - LongWin

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CFM

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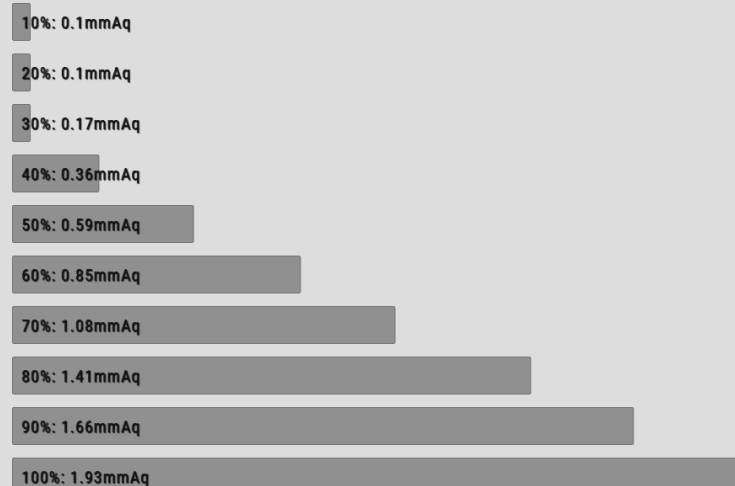
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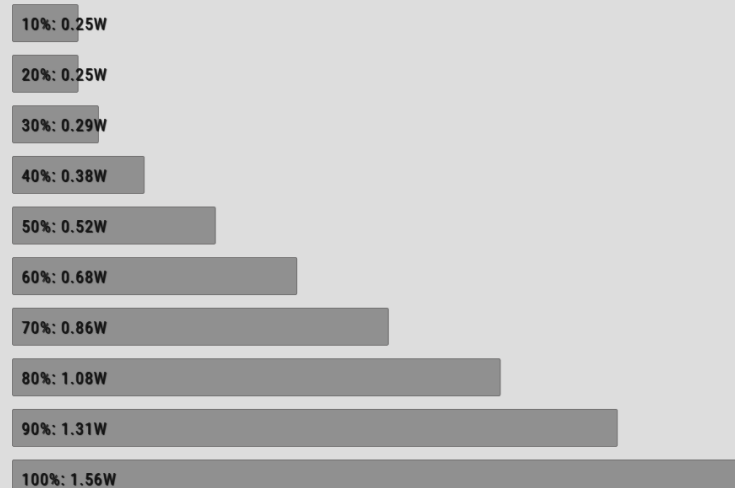
Static Pressure

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Power Consumption

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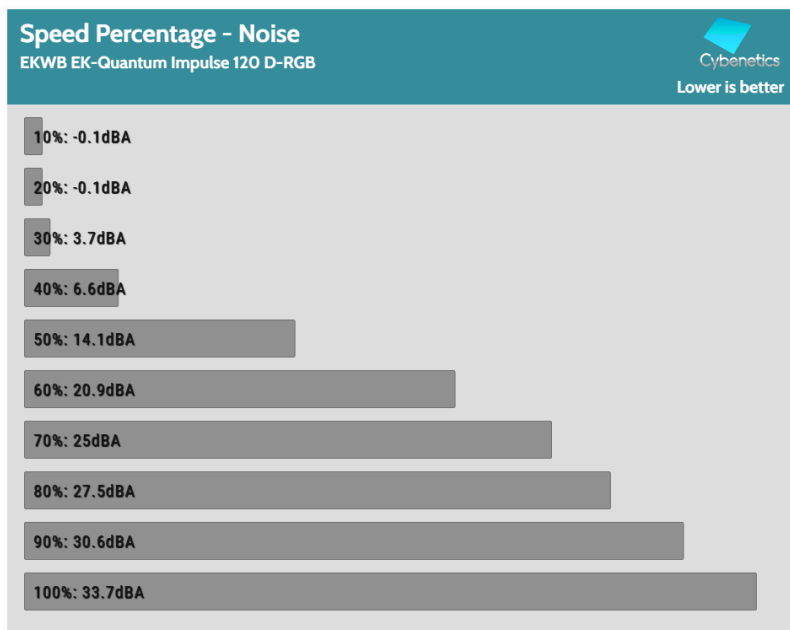
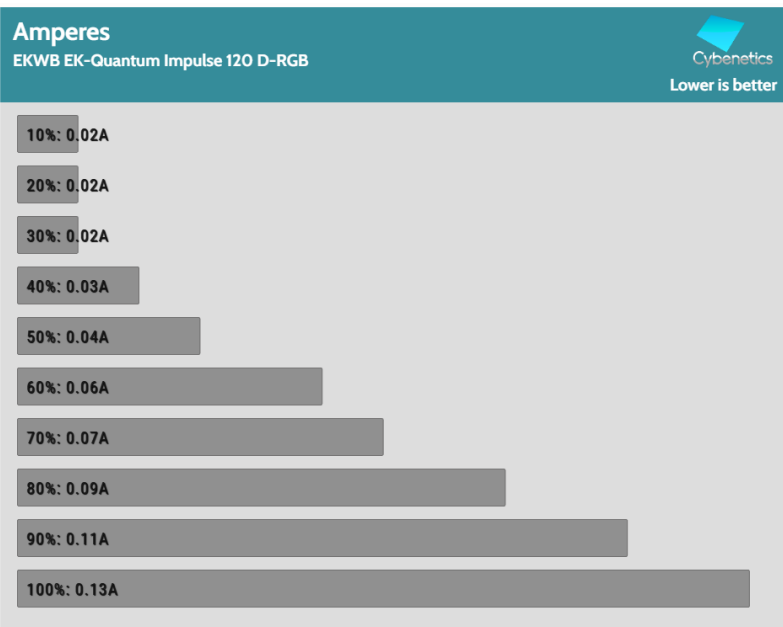
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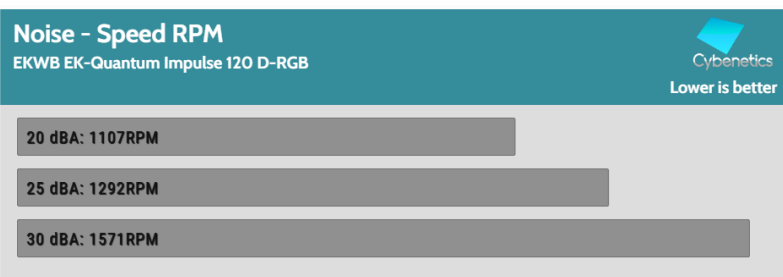
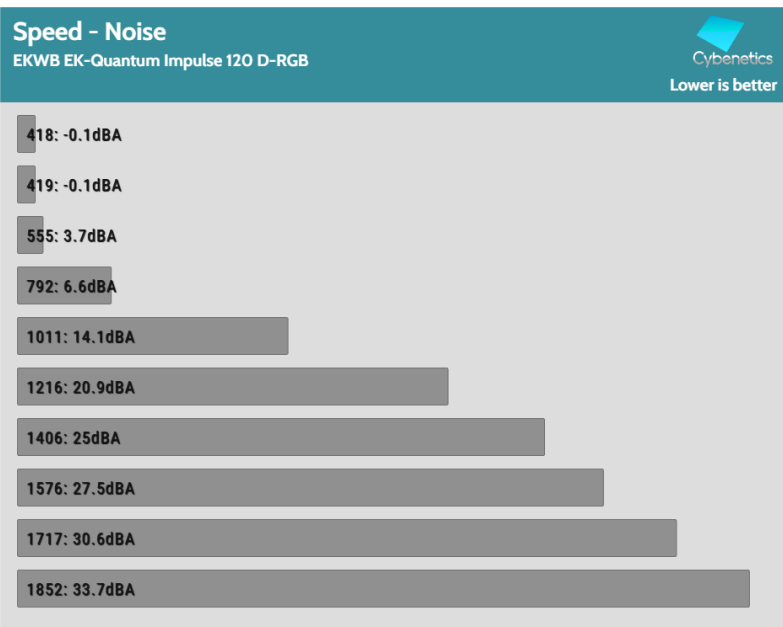
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