

Evaluation Report

EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

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T30-120 (Performance Mod



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 Rage	< 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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T30-120 (Performance Mode)

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	Phanteks
Model	T30-120 (Performance Mode)
Max Speed (RPM)	2038
Max Airflow (CFM)	68.48
Max Static Pressure (mmAq)	2.90
Max Fan Noise Level	31.7
Fan Bearing Type	Magnetic Levitation
Fan Connector	PWM
Fan Max Current (A)	0.15
Fan Weight (gr)	231
Dimensions (W \times H \times D)	120x 120 x 30
Fan daisy-chain connector	×
Cable length (mm)	0

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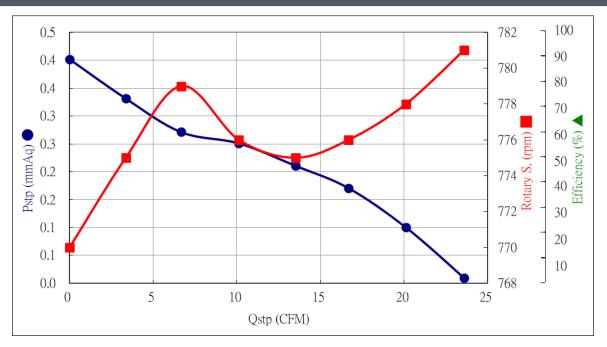


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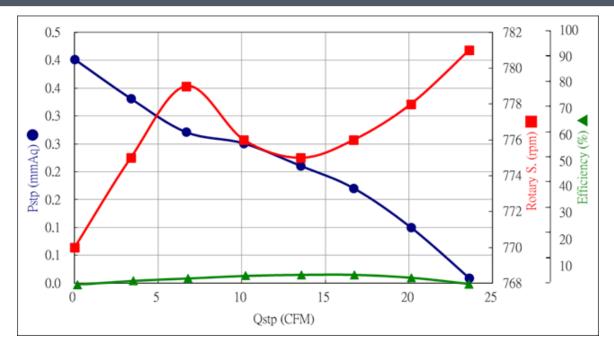
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PQ Chart 20% Speed



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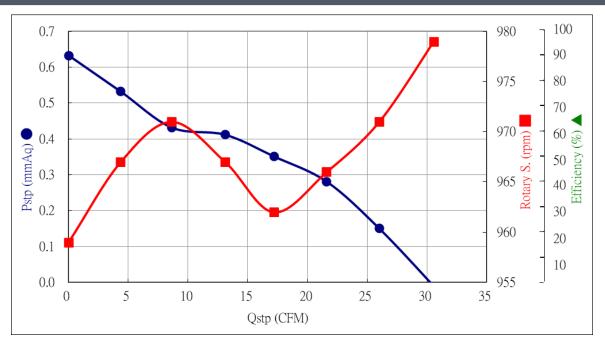


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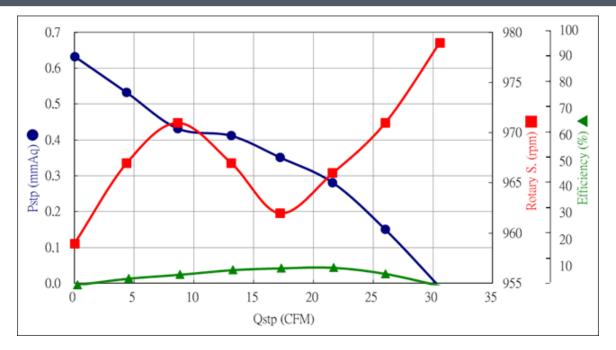
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PQ Chart 40% Speed



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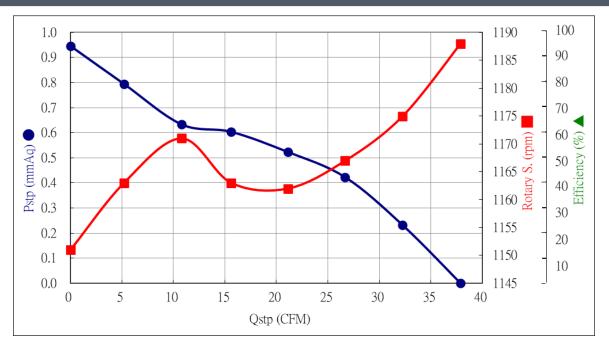


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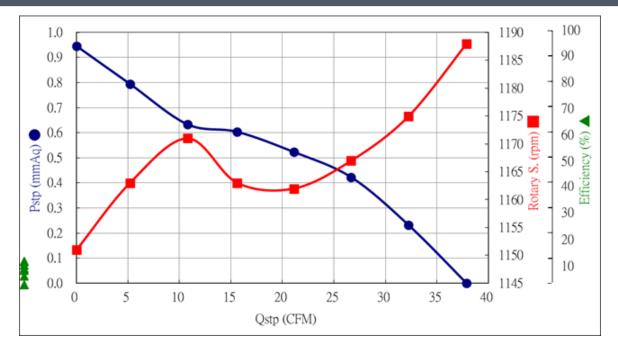
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PQ Chart 50% Speed



PQ Chart 60% Speed



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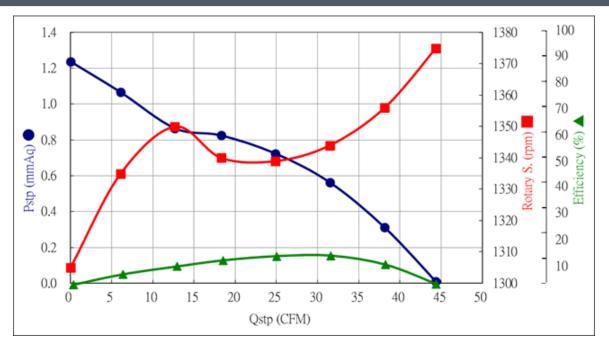


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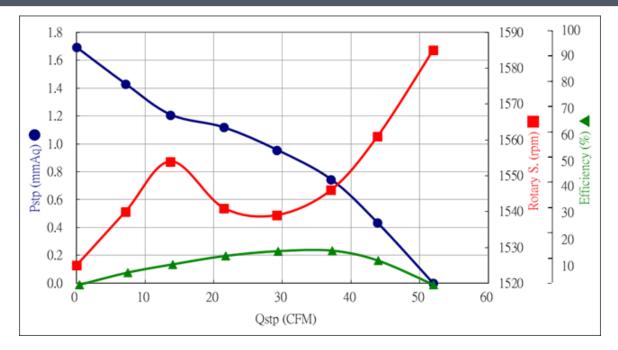
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PQ Chart 70% Speed



PQ Chart 80% Speed



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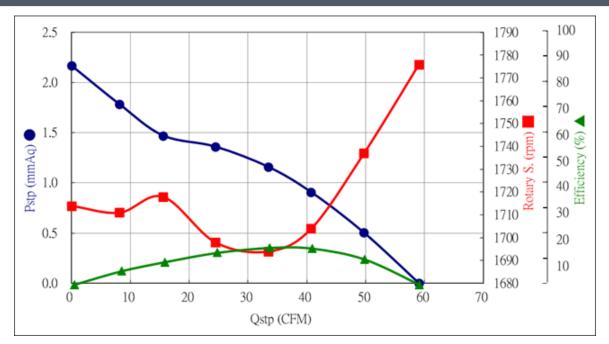


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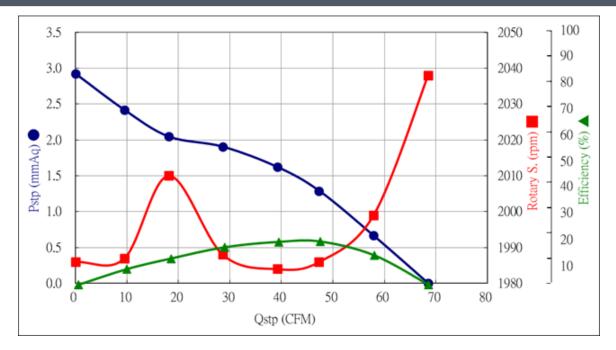
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PQ Chart 90% Speed



PQ Chart 100% Speed



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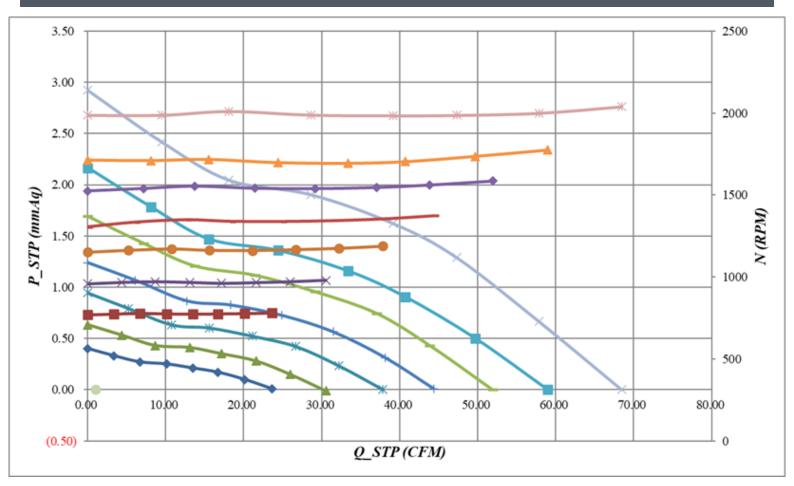


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T30-120 (Performance Mode)

PQ Chart All Speed



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Speed Percentage - Speed RPM - LongWin Phanteks T30-120 (Performance Mode)	Cybenetics Lower is better
10%: NaNRPM	
20%: NaNRPM	
30%: NaNRPM	
40%: 781RPM	
50%: 979RPM	
60%: 1188RPM	
70%: 1375RPM	
80%: 1585RPM	
90%: 1776RPM	
100%: 2038RPM	
CFM Phanteks T30-120 (Performance Mode)	Cybenetics Higher is better
10%: NaNCFM	
20%: NaNCFM	
30%: NaNCFM	
40%: 23.59CFM	
50%: 30.55CFM	
(A), 07 050FM	
60%: 37.85CFM	
70%: 44.36CFM	
70%: 44.36CFM	

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Static Pressure Phanteks T30-120 (Performance Mode)	Cybenetics Higher is better
10%: NaNmmAq	
20%: NaNmmAq	
30%: NaNmmAq	
40%: 0.4mmAq	
50%: 0.63mmAq	
60%: 0.94mmAq	
70%: 1.23mmAq	
80%: 1.68mmAq	
90%: 2.15mmAq	
100%: 2.9mmAq	
Power Consumption Phanteks T30-120 (Performance Mode)	Cybenetics Lower is better
10%: NaNW	
20%: NaNW	
30%: NaNW	
40%: 0.32W	
50%: 0.43W	
60%: 0.58W	
70%: 0.74W	
80%: 0.98W	

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90%: 1.28W

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Amperes Phanteks T30-120 (Performance Mode)	Cybenetics Lower is better
10%: NaNA	
20%: NaNA	
30%: NaNA	
40%: 0.03A	
50%: 0.04A	
60%: 0.05A	
70%: 0.06A	
80%: 0.08A	
90%: 0.11A	
100%: 0.15A	

Speed Percentage - Noise Phanteks T30-120 (Performance Mode)	Cybenetics Lower is better
10%: 5dBA	
20%: 5dBA	
30%: 5dBA	
40%: 5.6dBA	
50%: 9.1dBA	
60%: 14.4dBA	
70%: 19.2dBA	
80%: 23.1dBA	
90%: 28.1dBA	
100%: 31.7dBA	

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Speed - Noise Phanteks T30-120 (Performance Mode)	Cybenetics Lower is better
781: 5.6dBA	
979: 9.1dBA	
1188: 14.4dBA	
1375: 19.2dBA	
1585: 23.1dBA	
1776: 28.1dBA	
2038: 31.7dBA	
Noise - Speed RPM Phanteks T30-120 (Performance Mode)	Cybenetics Lower is better

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