

**Evaluation Report** 

# EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

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#### UNI fan SL120 RGB



#### FAN TESTING MACHINE TECHNICAL SPECIFICATIONS

Manufacturer	Long Win Esigned & Technology Comparation
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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### UNI fan SL120 RGE

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	Lian Li
Model	UNI fan SL120 RGB
Max Speed (RPM)	1863
Max Airflow (CFM)	48.85
Max Static Pressure (mmAq)	1.62
Max Fan Noise Level	32.0
Fan Bearing Type	Fluid Dynamic
Fan Connector	PWM
Fan Max Current (A)	0.17
Fan Weight (gr)	187
Dimensions (W $\times$ H $\times$ D)	120 X 120 X 25
Fan daisy-chain connector	1
Cable length (mm)	0

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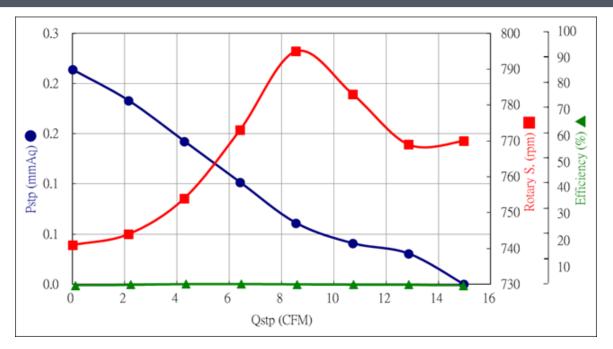


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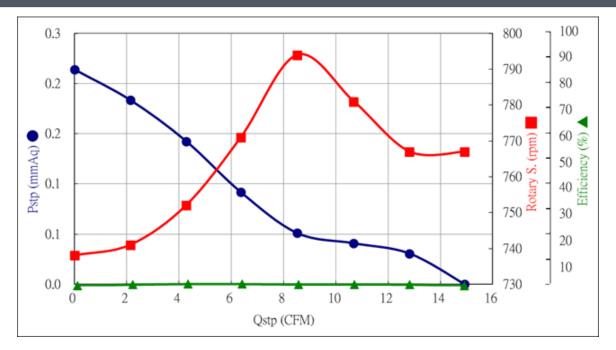
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#### PQ Chart 10% Speed



### PQ Chart 20% Speed



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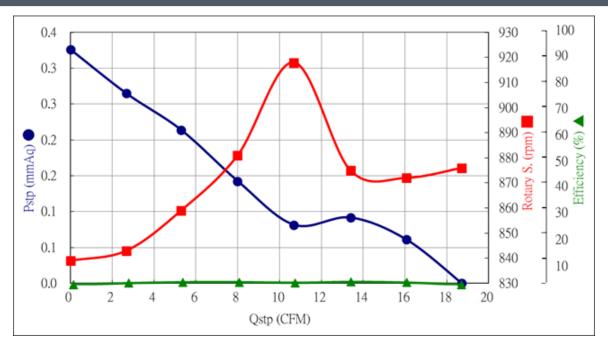


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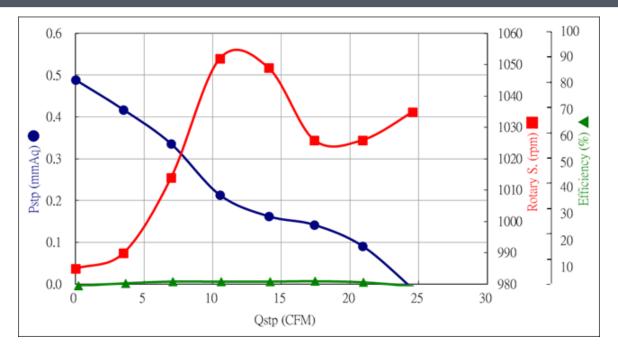
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### PQ Chart 40% Speed



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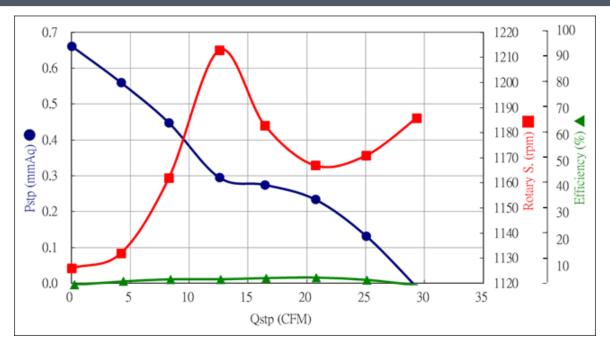


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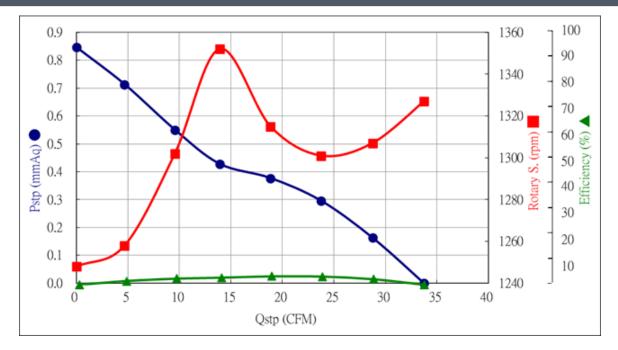
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### PQ Chart 60% Speed



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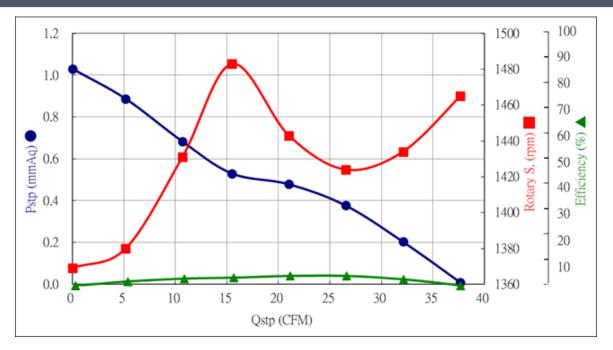


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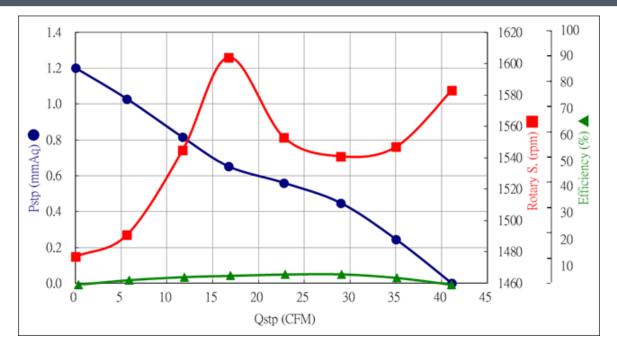
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#### PQ Chart 70% Speed



### PQ Chart 80% Speed



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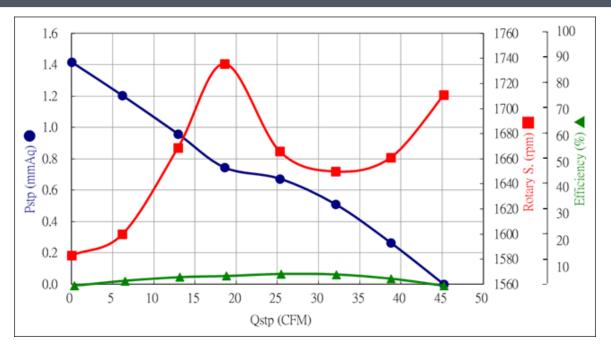


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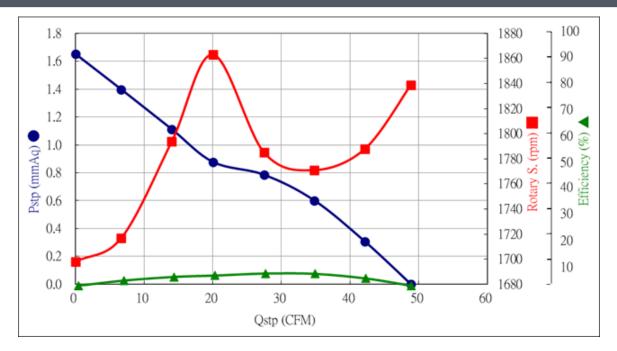
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#### PQ Chart 90% Speed



#### PQ Chart 100% Speed



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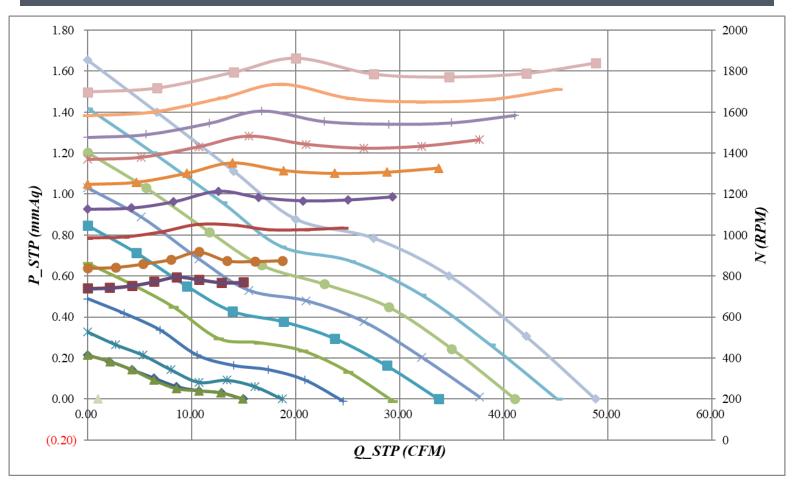


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#### UNI fan SL120 RGB





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### UNI fan SL120 RGB

Speed Percentage - Speed RP/ Lian Li Lian Li UNI fan SL120 RGB	M - LongWin	Cybenetics Lower is better
10%: 795RPM		
20%: 794RPM		
30%: 918RPM		
40%: 1052RPM		
50%: 1213RPM		
60%: 1352RPM		
70%: 1483RPM		
80%: 1604RPM		
90%: 1736RPM		
100%: 1863RPM		
CFM Lian Li Lian Li UNI fan SL120 RGB		Cybenetics Higher is better
10%: 14.97CFM		
20%: 14.92CFM		
30%: 18.71CFM		
40%: 24.55CFM		
50%: 29.31CFM		
60%: 33.75CFM		
70%: 37.65CFM		
80%: 41.08CFM		
90%: 45 16CFM		

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100%: 48.85CFM

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### UNI fan SL120 RGB

Static Pressure Lian Li Lian Li UNI fan SL120 RGB	Cybenetics Higher is better
_	
10%: 0.21mmAq	
20%; 0.21mmAq	
30%: 0.32mmAq	
40%: 0.48mmAq	
50%: 0.65mmAq	
60%: 0.83mmAq	
70%: 1.01mmAq	
80%: 1.18mmAq	
90%: 1.39mmAq	
100%: 1.62mmAq	
Power Consumption	
Lian Li Lian Li UNI fan SL120 RGB	Cybenetics Lower is better
10%: 0.42W	
20%: 0.42W	
30%: 0.49W	
40%: 0.62W	

All data and graphs included in this test report can be used by any individual on the following conditions:

50%: 0.79W 60%: 0.97W 70%: 1.19W 80%: 1.42W 90%: 1.69W 100%: 2.03W

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Amperes Lian Li Lian Li UNI fan SL120 RGB	Cybenetics Lower is better
10%: 0.04A	
20%: 0.04A	
30%: 0.04A	
40%: 0.05A	
50%: 0.07A	
60%: 0.08A	
70%: 0.1A	
80%: 0.12A	
90%: 0.14A	
100%: 0.17A	

Speed Percentage - Noise Lian Li Lian Li UNI fan SL120 RGB	Cybenetics Lower is better
10%: 8.3dBA	
20%: 8.9dBA	
30%: 10.2dBA	
40%: 15.1dBA	
50%: 20dBA	
60%: 22.6dBA	
70%: 25.5dBA	
80%: 27.1dBA	
90%: 29.4dBA	
100%: 32dBA	

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<b>Speed - Noise</b> Lian Li Lian Li UNI fan SL120 RGB	Cybenetics Lower is better
795: 8.3dBA	
794: 8.9dBA	
918: 10.2dBA	
1052: 15.1dBA	
1213: 20dBA	
1352: 22.6dBA	
1483: 25.5dBA	
1604: 27.1dBA	
1736: 29.4dBA	
1863: 32dBA	
Noise - Speed RPM	
Lian Li Lian Li UNI fan SL120 RGB	Cybenetics Lower is better
20 dBA: 1164RPM	
25 dBA: 1400RPM	
30 dBA: 1665RPM	

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