Reference No.: DGH251117033J

TEST REPORT

Product:	Ceiling Fans
Model No.:	KF640011US, KF640011US-01HZZ-001, KF640011US-02HZZ-001
Applicant:	Zhongshan Huazhen Electric Appliance Co. LTD
Address:	Zone A, Sixth Floor, Building 1, No. 16, Fuqing Fourth Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong Province, China
Test Sort:	Consignment Test

Dongguan NTEK Testing Service Co., Ltd.

TEST REPORT

Reference No.	:	DGH251117033J
Applicant	:	Zhongshan Huazhen Electric Appliance Co. LTD
Address	:	Zone A, Sixth Floor, Building 1, No. 16, Fuqing Fourth Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong Province, China
Manufacturer	:	Zhongshan Huazhen Electric Appliance Co. LTD
Address	:	Zone A, Sixth Floor, Building 1, No. 16, Fuqing Fourth Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong Province, China
Product Name	:	Ceiling Fans
Model No	:	KF640011US, KF640011US-01HZZ-001, KF640011US-02HZZ-001 (Note: All models are identical except for the specific model name and colors.)
Brand	:	FUFU&GAGA
Total pages	:	14 Pages
Standards	:	10 CFR 430, Appendix U to subpart B Uniform Test Method for Measuring the Energy Consumption of Ceiling Fans California Code of Regulations, Title 20, Division 2, Chapter 4, Article 4, Sections 1601-1609: Appliance Efficiency Regulations
Test items	:	Ceiling Fan
Date of Receipt sample	:	2025/11/17
Date of Test	:	2025/11/19
Date of Issue	:	2025/11/25
Test Result	:	Pass; The product tested complies with the Energy Efficiency Standard of DOE&CEC, starting on January 21, 2020.

*Remarks:

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory. The report would be invalid without specific stamp of test institute and the signatures of tester and approver.。

Prepared By:
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Compiled by:

Chris Chen / Project Engineer

Approved by:

Jeff Yang / Manager

Dongguan NTEK Testing Service Co., Ltd. Report Seal

Test items particulars:	
Item	**Data**
Model number of Unit Under Tested	KF640011US
Serial number	N/A
Condition of sample(s)	Prototype
Product Type	Ceiling Fan with Light Kit
Product Class	Standard
Fan Size [in]	52
Number of fan speeds	6
Type of Fan Speed Control	Remote control
Fan speed controls separate from lighting controls?	Yes
The capability of reversible fan action?	Yes
Airflow direction	Reversible
Thickness of edges of blades [mm]	14.0
Thickness of edges of blades [inch]	0.551
Maximum distance between lowest point on the fan blades and the ceiling [inch]	11
Minimum distance between lowest point on the fan blades and the ceiling [inch]	11
Maximum Tip speed threshold [m/s]	10.8
Maximum Tip speed threshold [fpm]	2124

Sample 1, Air Delivery Test at Low Speed - First Set

Item	Value	Item	Value
Barometric pressure (hPa)	1011	Voltage (V)	120
Room temperature (°C)	23.5	Frequency (Hz)	60
Relative humidity	45	Current (A)	0.123
Rotate speed (RPM)	96	Power (W)	6.81

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	188.98	165.35	155.51	129.92	159.94	0.0873	13.96
2	206.69	204.72	175.20	165.35	187.99	0.6981	131.24
3	190.94	173.23	173.23	155.51	173.23	1.3963	241.88
4	179.13	212.60	242.13	208.66	210.63	2.0944	441.14
5	196.85	236.22	224.41	175.20	208.17	2.7925	581.31
6	157.48	179.13	149.61	177.17	165.85	3.4907	578.92
7	116.14	118.11	100.39	116.14	112.70	4.1888	472.06
8	43.31	49.21	45.28	51.18	47.24	4.8869	230.88
						Total airflow [CFM]:	2691.40

Sample 1, Air Delivery Test at Low Speed - Second Set

Item	Value	Item	Value
Barometric pressure (hPa)	1011	Voltage (V)	120
Room temperature (°C)	23.5	Frequency (Hz)	60
Relative humidity	45	Current (A)	0.122
Rotate speed (RPM)	95	Power (W)	6.78

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	167.32	155.51	163.39	143.70	157.48	0.0873	13.75
2	196.85	238.19	167.32	147.64	187.50	0.6981	130.89
3	185.04	185.04	153.54	149.61	168.31	1.3963	235.01
4	157.48	216.54	261.81	250.00	221.46	2.0944	463.82
5	212.60	236.22	210.63	179.13	209.65	2.7925	585.44
6	151.57	185.04	173.23	196.85	176.67	3.4907	616.71
7	106.30	98.43	88.58	98.43	97.93	4.1888	410.22
8	31.50	57.09	41.34	47.24	44.29	4.8869	216.45
						Total airflow [CFM]:	2672.29

Sample 1, Air Delivery Test at High Speed - First Set

Item	Value	Item	Value
Barometric pressure (hPa)	1011	Voltage (V)	120
Room temperature (°C)	23.5	Frequency (Hz)	60
Relative humidity (%)	45	Current (A)	0.485
Rotate speed (RPM)	152	Power (W)	32.13

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	255.91	289.37	238.19	190.94	243.60	0.0873	21.27
2	285.43	297.24	344.49	330.71	314.47	0.6981	219.53
3	275.59	275.59	263.78	263.78	269.69	1.3963	376.56
4	277.56	324.80	289.37	362.20	313.48	2.0944	656.56
5	240.16	210.63	214.57	218.50	220.96	2.7925	617.04
6	206.69	177.17	210.63	214.57	202.26	3.4907	706.04
7	187.01	216.54	224.41	242.13	217.52	4.1888	911.15
8	98.43	90.55	108.27	110.24	101.87	4.8869	497.83
						Total airflow [CFM]:	4005.98

Sample 1, Air Delivery Test at High Speed - Second Set

Item	Value	Item	Value
Barometric pressure (hPa)	1011	Voltage (V)	120
Room temperature (°C)	23.5	Frequency (Hz)	60
Relative humidity (%)	45	Current (A)	0.484
Rotate speed (RPM)	153	Power (W)	32.11

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	273.62	326.77	248.03	212.60	265.26	0.0873	23.16
2	328.74	251.97	293.31	301.18	293.80	0.6981	205.10
3	253.94	295.28	210.63	250.00	252.46	1.3963	352.51
4	255.91	301.18	312.99	358.27	307.09	2.0944	643.16
5	238.19	210.63	206.69	224.41	219.98	2.7925	614.30
6	183.07	143.70	234.25	257.87	204.72	3.4907	714.63
7	165.35	238.19	214.57	265.75	220.96	4.1888	925.58
8	100.39	82.68	124.02	104.33	102.85	4.8869	502.64
						Total airflow [CFM]:	3981.07

Sample 2, Air Delivery Test at Low Speed - First Set

Item	Value	Item	Value
Barometric pressure (hPa)	1011	Voltage (V)	120
Room temperature (°C)	23.5	Frequency (Hz)	60
Relative humidity	45	Current (A)	0.122
Rotate speed (RPM)	93	Power (W)	6.71

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	202.76	159.45	149.61	108.27	155.02	0.0873	13.53
2	210.63	234.25	155.51	147.64	187.01	0.6981	130.55
3	224.41	188.98	173.23	137.80	181.10	1.3963	252.87
4	155.51	200.79	212.60	198.82	191.93	2.0944	401.98
5	159.45	214.57	183.07	177.17	183.56	2.7925	512.60
6	185.04	143.70	171.26	204.72	176.18	3.4907	615.00
7	106.30	139.76	114.17	127.95	122.05	4.1888	511.23
8	64.96	47.24	45.28	61.02	54.63	4.8869	266.95
						Total airflow [CFM]:	2704.71

Sample 2, Air Delivery Test at Low Speed - Second Set

Item	Value	Item	Value
Barometric pressure (hPa)	1011	Voltage (V)	120
Room temperature (°C)	23.5	Frequency (Hz)	60
Relative humidity	45	Current (A)	0.122
Rotate speed (RPM)	92	Power (W)	6.7

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	242.13	159.45	122.05	94.49	154.53	0.0873	13.49
2	179.13	279.53	129.92	169.29	189.47	0.6981	132.27
3	190.94	177.17	139.76	149.61	164.37	1.3963	229.51
4	145.67	190.94	236.22	185.04	189.47	2.0944	396.82
5	129.92	228.35	153.54	141.73	163.39	2.7925	456.25
6	147.64	141.73	192.91	242.13	181.10	3.4907	632.17
7	124.02	145.67	155.51	116.14	135.33	4.1888	566.89
8	51.18	41.34	82.68	62.99	59.55	4.8869	291.00
						Total airflow [CFM]:	2718.41

Sample 2, Air Delivery Test at High Speed - First Set

Item	Value	Item	Value
Barometric pressure (hPa)	1011	Voltage (V)	120
Room temperature (°C)	23.5	Frequency (Hz)	60
Relative humidity (%)	45	Current (A)	0.483
Rotate speed (RPM)	155	Power (W)	32.02

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	297.24	263.78	216.54	177.17	238.68	0.0873	20.84
2	297.24	255.91	340.55	326.77	305.12	0.6981	213.00
3	311.02	309.06	210.63	257.87	272.15	1.3963	380.00
4	311.02	348.43	253.94	401.57	328.74	2.0944	688.51
5	279.53	175.20	173.23	232.28	215.06	2.7925	600.55
6	210.63	202.76	183.07	232.28	207.19	3.4907	723.22
7	165.35	212.60	192.91	232.28	200.79	4.1888	841.06
8	92.52	88.58	116.14	108.27	101.38	4.8869	495.42
						Total airflow [CFM]:	3962.61

Sample 2, Air Delivery Test at High Speed - Second Set

Item	Value	Item	Value
Barometric pressure (hPa)	1011	Voltage (V)	120
Room temperature (°C)	23.5	Frequency (Hz)	60
Relative humidity (%)	45	Current (A)	0.483
Rotate speed (RPM)	156	Power (W)	32.01

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	324.80	273.62	206.69	220.47	256.40	0.0873	22.38
2	364.17	242.13	261.81	316.93	296.26	0.6981	206.82
3	273.62	316.93	204.72	224.41	254.92	1.3963	355.95
4	210.63	265.75	324.80	383.86	296.26	2.0944	620.49
5	234.25	228.35	214.57	179.13	214.07	2.7925	597.80
6	171.26	133.86	271.65	301.18	219.49	3.4907	766.17
7	181.10	251.97	204.72	248.03	221.46	4.1888	927.64
8	90.55	66.93	90.55	108.27	89.07	4.8869	435.30
						Total airflow [CFM]:	3932.54

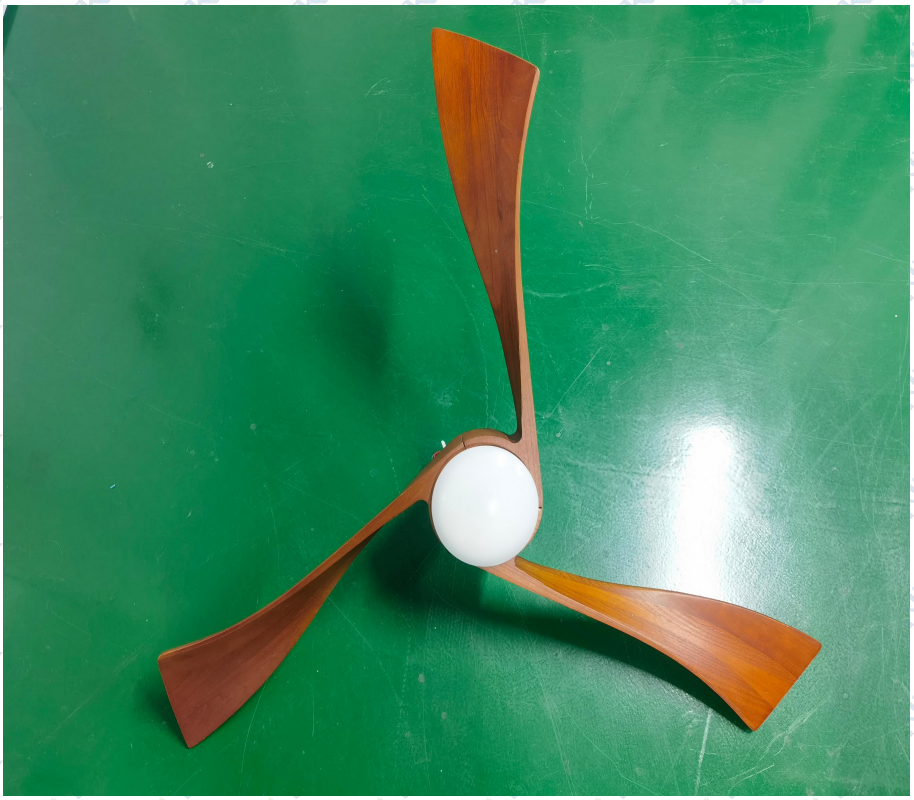
Standby power

Item	Sample 1	Sample 2
Voltage (*V*)	120	120
Frequency (*Hz*)	60	60
Total harmonic content (*%*)	1.6	1.6
Accumulated energy (*mWh*)	152	153
Period of measurement (*min*)	10	10
Standby or off mode power *(W)*	0.91	0.92

Conclusion(Standard)

Item	Airflow [CFM]		Power [W]		Standby [W]	Efficiency [CFM/W]
	Low	High	Low	High		
Sample 1	2681.84	3993.53	6.80	32.12	0.91	148.5
Sample 2	2711.56	3947.58	6.71	32.02	0.92	148.5
Number of samples	2	2	2	2	2	2
Mean	2696.70	3970.55	6.75	32.07	0.92	148.50
Standard deviation	21.02	32.49	0.06	0.07	0.01	0.00
$LCL_{0.90}$/0.9 for Airflow and Efficiency	2945.51	4333.15	N/A	N/A	N/A	165.00
$UCL_{0.95}$/1.1 for Power	N/A	N/A	6.39	29.45	0.86	N/A
Declarable value	2697	3971	6.8	32.07	0.92	148.50
Minimum Efficiency on and after January 21, 2020						71.83
Verdict						Pass

Photo of appliance:



View of test sample

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STATEMENT

1. Any objections must be raised to NTEK within 15 days since the date when the report is received.

2. The test results in the report only apply to the tested sample.

3. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver.

4. This inspection report is invalid without "special seal for testing".

5. It should not be reproduced except in full, without the written approval of our laboratory.

6. The copy approved for reproduction shall be sealed and confirmed.

7. The "*" in the inspection item is the subcontract inspection item.

8. The remaining samples must be retrieving within three months after receiving the inspection report. If they are not retrieved after the deadline, our company will handle them by itself.

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