



TEST REPORT

Test Report No.:	JQC-AG-R250304108
Applicant's Name Address.	Jiangxi Taloya Technology Co., Ltd Area A Lianhua Industrial Park, Lianhua County,Pingxiang city, Jiangxi province, China.
Manufacturer Address.	Jiangxi Taloya Technology Co., Ltd Area A Lianhua Industrial Park, Lianhua County,Pingxiang city, Jiangxi province, China.
Product Type.	Ceiling Fan
Trade Mark	TALOYA, ocioc, Roomratv, Atolit, Mildear, skylike, Moonfly
Electrical Ratings	120V 60Hz 30W
Model	9001, 9014, 90016, 90017
Order content	DOE&CEC
Testing Laboratory:	JIAYU (GUANGDONG) TESTING TECHNOLOGY CO., LTD. 6/F, No.13 JianFeng Road, Rongli, Ronggui, Shunde, Foshan, Guangdong, China
Date of receipt of test item:	2025-03-04
Test specification:	10 CFR 430, Appendix U to subpart B Uniform Test Method for Measuring the Energy Consumption of Ceiling Fans
Testing location:	JIAYU (GUANGDONG) TESTING TECHNOLOGY CO., LTD. 6/F, No.13 JianFeng Road, Rongli, Ronggui, Shunde, Foshan, Guangdong, China
Date(s) of performance of tests	2025-03-13
Test Result	Pass
Tested by: 2025-03-15	Reviewed by: 2025-03-15
Other Aspects:	
Abbreviations: P(ass) = passed F(ail) = failed	
<i>This test report relates to the test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>	

Photos:



Product Details

Item	Data
Model number of Unit Under Tested	9001, 9014, 90016, 90017
Serial number	NA
Condition of sample(s)	Prototype
Product Type	Ceiling Fan
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 [inch]	0.126
Minimum distance between lowest point on the fan blades and the ceiling [inch]	13.0
Maximum Tip speed threshold [m/s]	12.0
Maximum Tip speed threshold [fpm]	2314.2

Critical Components

Name	Manufacturer / trademark	Type / model	Technical data
Fan motor	ZHONGSHAN LICHU MOTOR CO., LTD.	DYS0283	DC 24V

Model 9001, 9014, 90016 and 90017 are the same except name mode.

All tests were performed on model 9001.

NOTE

"Various" means any type, from any manufacturer that complies with the "Technical data and securement means" can be used.

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

Item	Unit	Value	Item	Unit	Value
Barometric pressure	<i>hPa</i>	1015.4	Voltage	<i>V</i>	119.9
Room temperature	<i>°F</i>	56.9	Frequency	<i>Hz</i>	60
Relative humidity	<i>%</i>	54.8	Current	<i>A</i>	0.072
Rotate speed	<i>RPM</i>	81	Power	<i>W</i>	3.31

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	125.91	129.61	143.75	146.39	136.42	0.0873	11.91
2	154.87	157.49	167.19	167.31	161.71	0.6981	112.89
3	180.14	180.44	188.63	191.76	185.24	1.3963	258.65
4	195.3	196.02	195.72	194.39	195.36	2.0944	409.16
5	193.66	191.59	181.01	172.89	184.79	2.7925	516.02
6	110.94	109.19	102.84	95.18	104.54	3.4907	364.91
7	45.95	50.43	50.59	50.03	49.25	4.1888	206.3
8	26.18	37.21	35.16	40.17	34.68	4.8869	169.48
9							
10							
11							
12							
Total airflow [CFM]:							2049.31

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

Item	Unit	Value	Item	Unit	Value
Barometric pressure	<i>hPa</i>	1015.4	Voltage	<i>V</i>	119.9
Room temperature	<i>°F</i>	56.8	Frequency	<i>Hz</i>	60
Relative humidity	<i>%</i>	54.2	Current	<i>A</i>	0.076
Rotate speed	<i>RPM</i>	81	Power	<i>W</i>	3.35

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	141.07	129.54	132.75	153.05	139.1	0.0873	12.14
2	161.75	154.52	157.92	174.76	162.24	0.6981	113.26
3	185.92	181.37	185.02	196.54	187.21	1.3963	261.4
4	196.75	198.44	202.04	200.49	199.43	2.0944	417.69
5	193.62	199.31	203.59	179.55	194.02	2.7925	541.8
6	108.16	119.24	132.45	104.61	116.11	3.4907	405.32
7	50.18	53.77	62.86	46.98	53.45	4.1888	223.89
8	34.97	38.59	35.8	37.97	36.83	4.8869	179.99
9							
10							
11							
12							
Total airflow [CFM]:							2155.49

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

Item	Unit	Value	Item	Unit	Value
Barometric pressure	<i>hPa</i>	1015.4	Voltage	<i>V</i>	119.7
Room temperature	<i>°F</i>	56.9	Frequency	<i>Hz</i>	60
Relative humidity	<i>%</i>	54.8	Current	<i>A</i>	0.46
Rotate speed	<i>RPM</i>	173	Power	<i>W</i>	31.44

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	373.83	363.53	356.24	366.99	365.15	0.0873	31.88
2	415.7	403.82	406.15	410.02	408.92	0.6981	285.47
3	476.19	463.96	469.04	460.82	467.5	1.3963	652.77
4	537.08	528.48	522.03	513.66	525.31	2.0944	1100.21
5	515.96	529.85	502.77	487.33	508.98	2.7925	1421.32
6	328.55	338.51	329.47	315.51	328.01	3.4907	1144.99
7	177.16	176.39	173.59	171.46	174.65	4.1888	731.57
8	137.9	134.97	131.73	133.3	134.47	4.8869	657.16
9							
10							
11							
12							
Total airflow [CFM]:							6025.38

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

Item	Unit	Value	Item	Unit	Value
Barometric pressure	<i>hPa</i>	1015.4	Voltage	<i>V</i>	119.8
Room temperature	<i>°F</i>	56.8	Frequency	<i>Hz</i>	60
Relative humidity	<i>%</i>	54.2	Current	<i>A</i>	0.348
Rotate speed	<i>RPM</i>	174	Power	<i>W</i>	32.26

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	362.63	354.09	345.75	363.52	356.5	0.0873	31.12
2	401.91	402.76	402.56	407	403.56	0.6981	281.72
3	464.67	461.69	460.62	465.77	463.19	1.3963	646.75
4	505.85	525.16	524.52	515.18	517.68	2.0944	1084.22
5	499.32	516.62	526.36	491.14	508.36	2.7925	1419.6
6	325.46	336.05	310.81	306.32	319.66	3.4907	1115.84
7	171.58	175.71	161.62	166.6	168.88	4.1888	707.39
8	124.64	130.18	119.3	127.54	125.41	4.8869	612.89
9							
10							
11							
12							
Total airflow [CFM]:							5899.54

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

Item	Unit	Value	Item	Unit	Value
Barometric pressure	<i>hPa</i>	1015	Voltage	<i>V</i>	120
Room temperature	<i>°F</i>	56.9	Frequency	<i>Hz</i>	60
Relative humidity	<i>%</i>	55.1	Current	<i>A</i>	0.072
Rotate speed	<i>RPM</i>	86	Power	<i>W</i>	3.37

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	126.95	130.43	131.99	144.39	133.44	0.0873	11.65
2	149.67	154.44	160.75	166.17	157.76	0.6981	110.13
3	170.82	183.72	184.18	190.2	182.23	1.3963	254.45
4	165.24	200.63	193.07	196.82	188.94	2.0944	395.71
5	159.21	213.3	192.72	191.51	189.18	2.7925	528.29
6	126.17	145.7	102.91	114.34	122.28	3.4907	426.84
7	67.72	63.99	42.11	56.88	57.67	4.1888	241.59
8	38.52	39.84	29.58	39.14	36.77	4.8869	179.7
9							
10							
11							
12							
Total airflow [CFM]:							2148.36

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

Item	Unit	Value	Item	Unit	Value
Barometric pressure	<i>hPa</i>	1015	Voltage	<i>V</i>	120.0
Room temperature	<i>°F</i>	57.0	Frequency	<i>Hz</i>	60
Relative humidity	<i>%</i>	55.1	Current	<i>A</i>	0.073
Rotate speed	<i>RPM</i>	81	Power	<i>W</i>	3.31

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	126.37	133.39	146.39	145.9	138.01	0.0873	12.05
2	155.01	159.93	162.24	164.99	160.54	0.6981	112.08
3	179.35	180.67	189.52	187.75	184.32	1.3963	257.37
4	189.12	197.1	200	188.78	193.75	2.0944	405.79
5	188.45	203.71	182.66	166.55	185.34	2.7925	517.57
6	117.55	127.31	106.8	95.18	111.71	3.4907	389.96
7	51.62	62.09	49.6	48.15	52.87	4.1888	221.44
8	33.78	38.96	33.92	35.91	35.64	4.8869	174.19
9							
10							
11							
12							
Total airflow [CFM]:							2090.44

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

Item	Unit	Value	Item	Unit	Value
Barometric pressure	<i>hPa</i>	1015	Voltage	<i>V</i>	119.8
Room temperature	<i>°F</i>	56.9	Frequency	<i>Hz</i>	60
Relative humidity	<i>%</i>	55.1	Current	<i>A</i>	0.48
Rotate speed	<i>RPM</i>	173	Power	<i>W</i>	32.54

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	368.15	313.74	350.44	381.13	353.37	0.0873	30.85
2	409.55	383.24	400.86	414.67	402.08	0.6981	280.69
3	470.89	450.87	461.57	463.52	461.71	1.3963	644.69
4	529.04	517.59	529.49	513.12	522.31	2.0944	1093.94
5	510.43	501.71	516.61	484.86	503.4	2.7925	1405.74
6	318.5	304.59	321.45	316.19	315.18	3.4907	1100.2
7	176.81	160.01	182.69	169.81	172.33	4.1888	721.85
8	133.18	117.88	141.13	131.01	130.8	4.8869	639.21
9							
10							
11							
12							
Total airflow [CFM]:							5917.17

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

Item	Unit	Value	Item	Unit	Value
Barometric pressure	<i>hPa</i>	1015	Voltage	<i>V</i>	119.8
Room temperature	<i>°F</i>	57.0	Frequency	<i>Hz</i>	60
Relative humidity	<i>%</i>	55.1	Current	<i>A</i>	0.48
Rotate speed	<i>RPM</i>	168	Power	<i>W</i>	32.52

Sensor #	Velocity in FPM - Axis #				Average	Circle area	Airflow
	A	B	C	D	Vel. [FPM]	[sq. Ft.]	[CFM]
1	359.76	350.5	360.7	354.35	356.33	0.0873	31.11
2	400.72	396.31	402.74	401.03	400.2	0.6981	279.38
3	460.58	454.59	460.32	461.79	459.32	1.3963	641.35
4	518.07	516.97	526.84	507.01	517.22	2.0944	1083.27
5	496.51	526.15	525.78	462.52	502.74	2.7925	1403.9
6	318.49	351.02	322.38	287.03	319.73	3.4907	1116.08
7	162.54	175.31	160.52	160.53	164.72	4.1888	690.00
8	122.06	128.24	123.52	126.69	125.13	4.8869	611.5
9							
10							
11							
12							
Total airflow [CFM]:							5856.58

Standby power

Item	Unit	Sample 1	Sample 2
Applied voltage	<i>V</i>	120	120
Frequency	<i>Hz</i>	60	60
Total harmonic content	<i>%</i>	1.05	1.05
Accumulated energy	<i>mWh</i>	145	146.7
Period of measurement	<i>min</i>	10	10
Standby or off mode power	<i>W</i>	0.87	0.88

Conclusion (Standard)

Item	Airflow [CFM]		Power [W]		Standby [W]	Efficiency [CFM/W]
	Low	High	Low	High		
Sample 1	2102.4	5962.46	3.33	31.85	0.87	199
Sample 2	2119.4	5886.87	3.34	32.53	0.88	194
Number of samples	2	2	2	2	2	2
Mean	2110.9	5924.67	3.34	32.19	0.88	196.5
Standard deviation	12.02	53.45	0.01	0.48	0.01	3.54
LCL _{0.90} /0.9 for Airflow and Efficiency	2316.37	6453.7	NA	NA	NA	209.78
UCL _{0.95} /1.1 for Power	NA	NA	3.06	31.22	0.82	N/A
Declarable value	2110.9	5924.67	3.34	32.19	0.88	196.5
Minimum Efficiency on and after January 21, 2020						71.8
Verdict						Pass

FTC EnergyGuide

Item	Unit	Standard	Hugger
Airflow (weighted-average)	CFM	4137	NA
Energy Use	W	21	NA
Airflow Efficiency	CFM/W	196	NA
Estimated Yearly Energy Cost	\$	6	NA