

Test report

Total 4 pages

Product Name	axial fan		Trademarks	WEIGUANG	
Model specifications	YWF8D-630S-137/70-G 、 YWF6D-630S-137/70-G (MUST be used with good quality frequency controller for the long life working purpose)				
Technical parameters	400V 50Hz				
Nature of inspection	Commissioned testing		Product grade	Qualified products	
Unit entrusted	Hangzhou Weiguang Electronics Co., Ltd. Technical Section 2		Address	No .365 Xingzhong Road, Yuhang Economic Development Zone, Hangzhou	
Unit inspected	/		Address	/	
Production units	Hangzhou Weiguang Electronics Co., Ltd. Axial fan Division		Address	No .365 Xingzhong Road, Yuhang Economic Development Zone, Hangzhou	
Sample location	/	Sample	/	Sender (Client)	Chen You
Number of samples	2	Sample base	2	Production date	2020.7.25
Sample date	/		Date of sample	2020.7.25	
Inspection items	Noise (sound pressure level, rising power level), fan air volume test				
Sample No.	SY20070056、SY20070057			Sample status	In good condition
Inspection basis	GB 12350-2009 《 Safety Requirements for Small Power Motors GB/T 1236-2000 《 performance test of standardized air duct for industrial ventilator GB/T 2888-2008 《 Fan and Roots Blower Noise Measurement Method				
Date of inspection	25 July 2020				
Inspection	1	Electrical parameters	Detailed data are shown in schedule 1		

Inspection	2	Noise	Detailed data are shown in schedule 2
Conclusion	3	Fan Air Volume Test	Detailed data are shown in schedule 3
Discussion	Date of Issue : 29 July 2020		
Standby Note			

Schedule 1: Test of electrical parameters

Test voltage :400 V 50Hz, the fan is installed on the test rack, the wind direction is horizontal, there is no occlusion before and after;

Name of sample	Sample No.	Voltage	Current (A)	(W)	Rotational speed (rpm)	Remarks
YWF8D-630S -137/70- G	SY20070056	400V/50Hz	0.94	250	700	△
		400V/50Hz	0.37	160	600	Y
YWF6D-630S -137/70- G	SY20070057	400V/50Hz	1.10	500	870	△
		400V/50Hz	0.60	325	650	Y

2. Schedule 2: noise test

st site: semisperitoneum; atmospheric pressure :100.5 kPa;

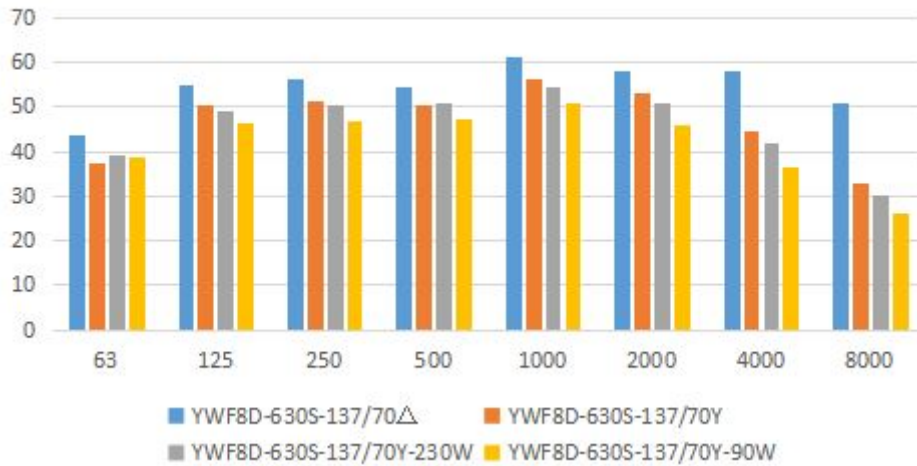
Ambient temperature :25.1°C humidity 66.0%;

Test distance :1.0 m; background noise :19.5 dB

SY 20070056YWF8D-630S-137/70-G

	1m	10m	Remarks
Lw/dB (A)	65.7	/	400V 50Hz △/ in
LpA/dB (A)	57.7	/	
LpA/dB (A)	/	37.7	
Lw/dB (A)	60.6	/	400V 50Hz Y/ in
LpA/dB (A)	52.6	/	
LpA/dB (A)	/	32.6	
Lw/dB (A)	56.5	/	110W(160W*70%) 50Hz Y/ in
LpA/dB (A)	48.5	/	
LpA/dB (A)	/	28.5	
Lw/dB (A)	53.4	/	90W(450r) 50Hz Y/ in
LpA/dB (A)	45.4	/	
LpA/dB (A)	/	25.4	

Frequency doubling sound pressure level(dB)



Frequency/ HZ of frequency band center	63	125	250	500	1000	2000	4000	8000	Remarks
Frequency doubling band sound pressure level dB	43.7	55.0	56.4	54.7	61.2	58.2	58.3	51.1	400V 50Hz △/ in
Frequency doubling band	37.4	50.5	51.4	50.6	56.3	53.3	44.7	32.8	400V 50Hz Y/ in

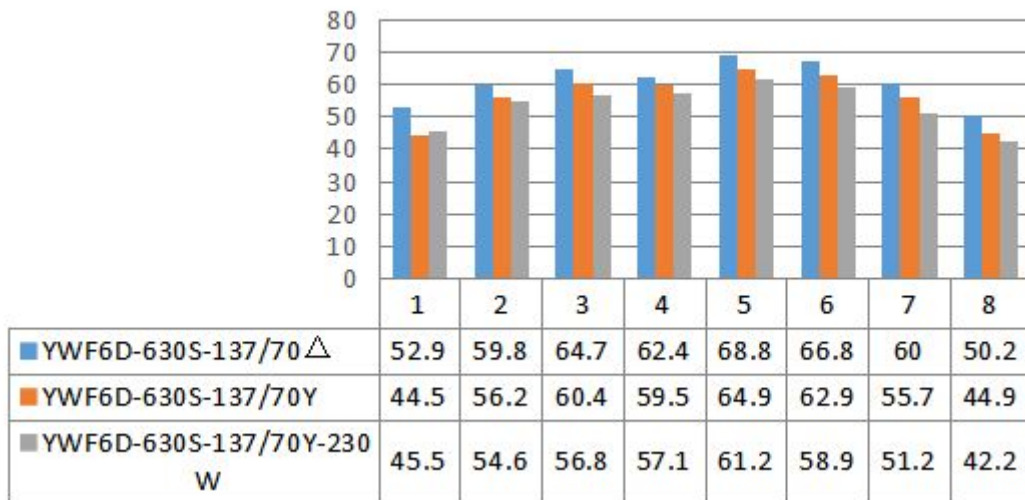
sound pressure level dB									
Frequency doubling band sound pressure level dB	39.3	49.0	50.6	50.7	54.6	50.9	41.8	30.1	110W(160W*70%) 50Hz Y/ in
Frequency doubling band sound pressure level dB	38.8	46.3	47	47.4	51	46	36.5	26.1	90W(450r) 50Hz Y/ in

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	1m	10m	Remarks
Lw/dB (A)	73.5	/	400V 50Hz △/ in
LpA/dB (A)	65.5	/	
LpA/dB (A)	/	45.5	

Lw/dB (A)	69.3	/	400V 50Hz Y/ in
LpA/dB (A)	61.3	/	
LpA/dB (A)	/	41.3	
Lw/dB (A)	64.7	/	230W(325W*70%) 50Hz Y/ in
LpA/dB (A)	56.7	/	
LpA/dB (A)	/	36.7	

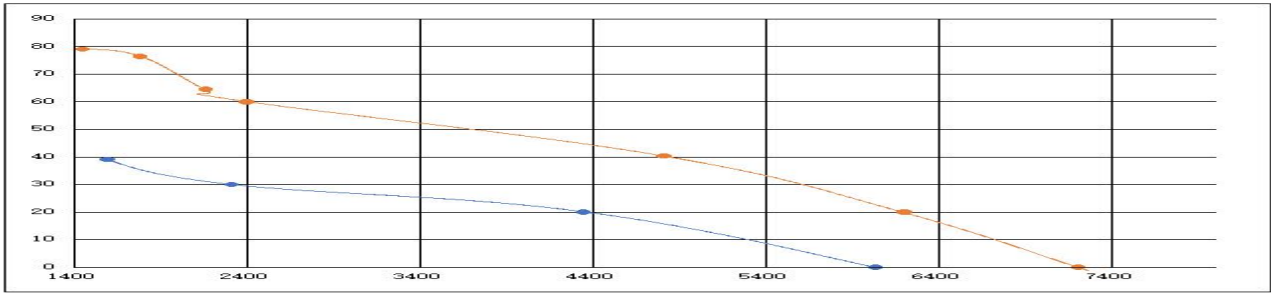
Frequency doubling sound pressure level (dB)



Frequency/ HZ of frequency band center	63	125	250	500	1000	2000	4000	8000	Remarks
Frequency doubling band sound pressure level dB	52.9	59.8	64.7	62.4	68.8	66.8	60	50.2	400V 50Hz △/ in
Frequency doubling band sound pressure level dB	44.5	56.2	60.4	59.5	64.9	62.9	55.7	44.9	400V 50Hz Y/ in
Frequency doubling band sound pressure level dB	45.5	54.6	56.8	57.1	61.2	58.9	51.2	42.2	230W(325W*70%) 50Hz Y/ in

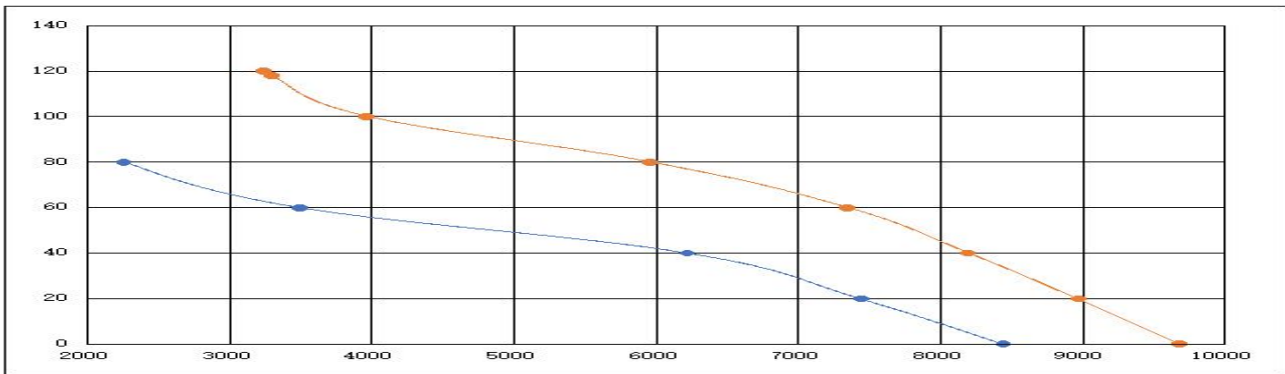
3. Schedule 3: airflow test

SY20070056 YWF8D-630S-137/70-G



wiring	U/V	f/Hz	I/A	Pe/W	n/rpm	qv/m3/h	Pst /Pa	LpAin /dB (A)	LwAin /dB (A)
Y	400	50	0.33	132.6	476	1583	39.1	49	57
			0.31	122.4	515	2304	30.0	/	/
			0.30	118.0	537	4339	20.1	/	/
			0.28	109.3	570	6032	0.0	/	/
△	400	50	0.69	265.7	629	1443	79.1	58	66
			0.69	264.3	633	1775	76.5	57	65
			0.68	257.8	643	2156	64.5	57	65
			0.67	253.0	645	2390	60	/	/
			0.65	240.0	659	4128	41.8	/	/
			0.65	239.1	663	4803	40.4	/	/
			0.64	232.2	674	6197	20.0	/	/
			0.63	223.9	684	7205	0.0	/	/

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wiring	U/V	f/Hz	I/A	Pe/W	n/rpm	qv/m3/h	Pst /Pa	LpAin /dB (A)	LwAin /dB (A)
Y	400	50	0.70	428.2	691	2249	80	59	67
			0.63	378.7	742	3490	60	58	66
			0.60	356.3	765	6216	40	/	/
			0.57	330.1	790	7440	20	/	/
			0.53	305.7	811	8440	0	/	/
△	400	50	1.30	615.0	892	3239	120	/	/
			1.29	609.1	893	3295	118	66	74
			1.26	569.1	904	3960	100	65	73
			1.24	532.4	913	5957	80	64	72
			1.22	503.3	920	7346	60	/	/
			1.20	478.3	925	8193	40	/	/
			1.19	454.7	931	8969	20	/	/
			1.18	427.2	937	9681	0	/	/

杭州微光电子股份有限公司
HANGZHOU WEIGUANG ELECTRONIC CO.,LTD

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