

Test report

Total 7 pages

Product Name	axial fan		Trademarks	WEIGUANG	
Model specifications	YWF4D-630S-168/65-G 、 YWF4D-630S-168/80-G				
Technical parameters	380V 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	2021.1.20
Sample date	/		Date of sample	2021.1.20	
Inspection items	Noise (sound pressure level, rising power level), fan air volume test				
Sample No.	SY21010028、SY21010029			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	20 January 2021				
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 : 28 January 2021		
Standby Note			

Schedule 1: Test of electrical parameters

Test voltage :380 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
YWF4D-630S -168/65- G	SY21010028	380V/50Hz	2.50	1150	1420	△
		380V/50Hz	1.50	900	1270	Y
YWF4D-630S -168/80- G	SY21010029	380V/50Hz	3.10	1670	1390	△
		380V/50Hz	2.10	1278	1190	Y

2. Schedule 2: noise test

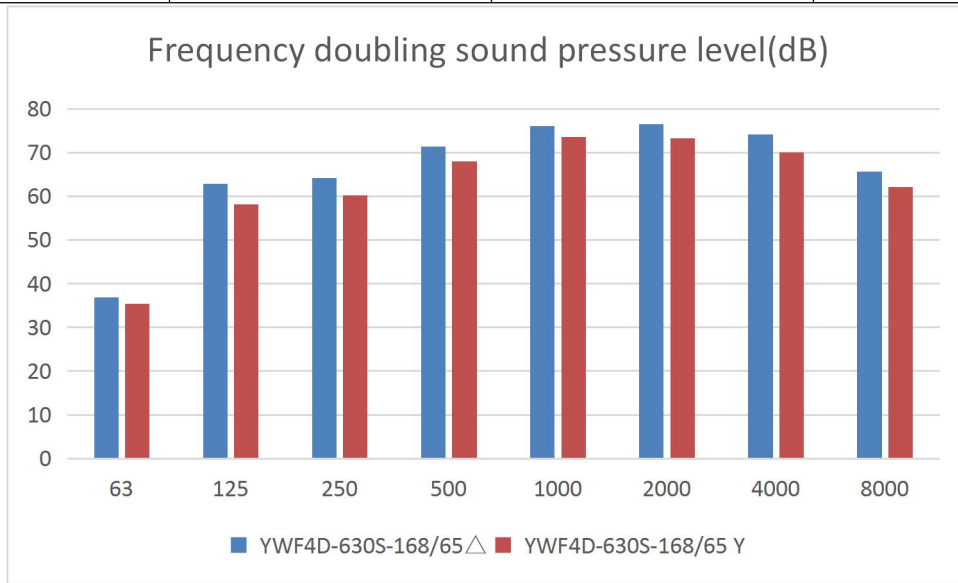
st site: semisperitoneum; atmospheric pressure :102.3 kPa;

Ambient temperature :15.1°C humidity 63.0%;

Test distance :1.0 m; background noise :21.0 dB

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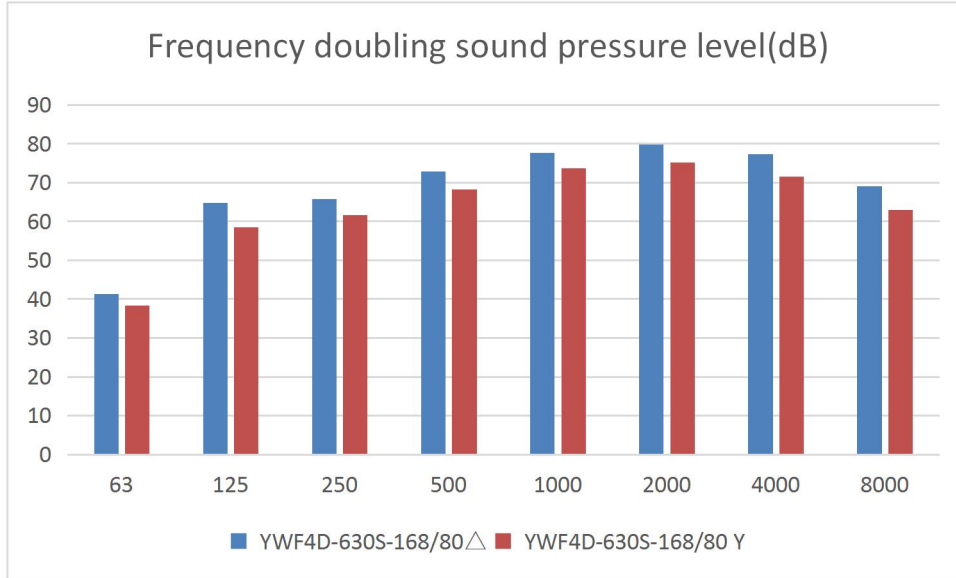
	1m	10m	Remarks
Lw/dB (A)	79.4	/	380V 50Hz △/ in
LpA/dB (A)	71.4	/	
LpA/dB (A)	/	51.4	
Lw/dB (A)	77.0	/	380V 50Hz Y/ in
LpA/dB (A)	69.0	/	
LpA/dB (A)	/	49.0	



Frequency/ HZ of frequency band center	63	125	250	500	1000	2000	4000	8000	Remarks
Frequency doubling band sound pressure level dB	36.8	62.8	64.2	71.3	76.0	76.5	74.2	65.7	380V 50Hz △/ in
Frequency doubling band sound pressure level dB	35.4	58.2	60.2	68.0	73.5	73.3	70.0	62.1	380V 50Hz Y/ in

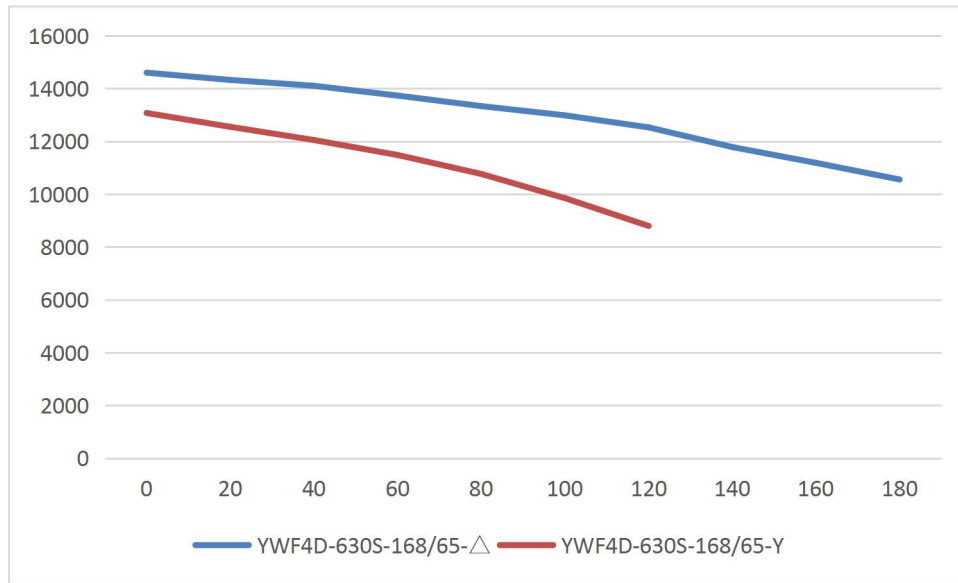
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	1m	10m	Remarks
Lw/dB (A)	81.4	/	380V 50Hz △/ in
LpA/dB (A)	73.4	/	
LpA/dB (A)	/	53.4	
Lw/dB (A)	78.3	/	380V 50Hz Y/ in
LpA/dB (A)	70.3	/	
LpA/dB (A)	/	50.3	



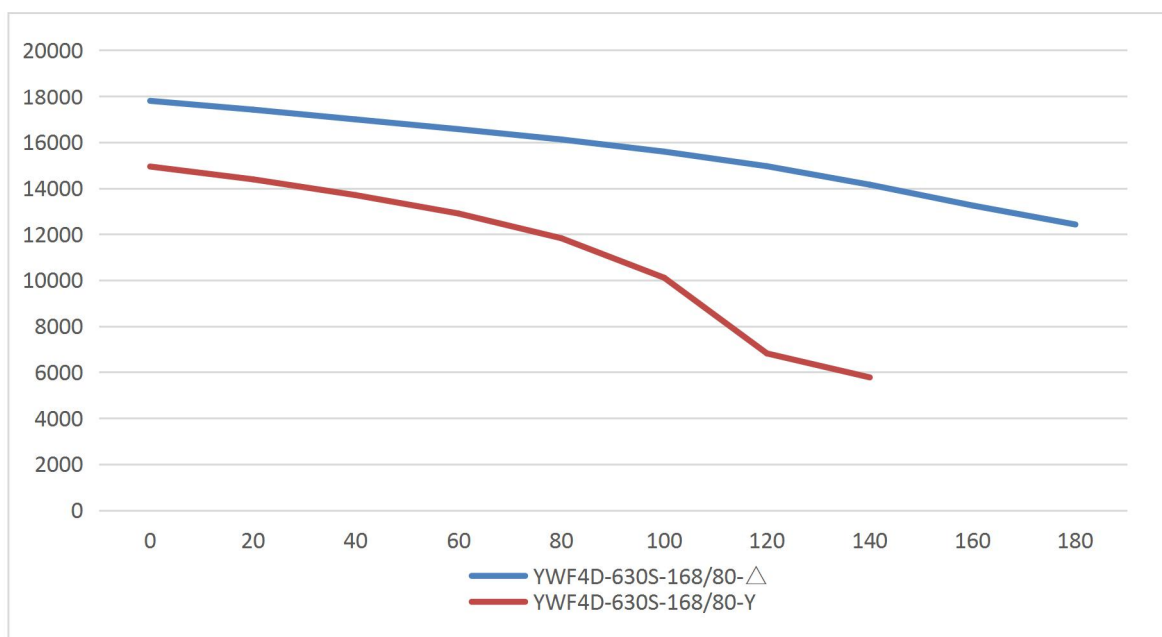
Frequency/ HZ of frequency band center	63	125	250	500	1000	2000	4000	8000	Remarks
Frequency doubling band sound pressure level dB	41.3	64.8	65.8	72.9	77.6	79.8	77.3	69.1	380V 50Hz △/ in
Frequency doubling band sound pressure level dB	38.4	58.5	61.6	68.2	73.7	75.1	71.5	62.9	380V 50Hz Y/ in

3. Schedule 3: airflow test
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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	380	50	2.09	1283	1121	6827	127.7	/	/
			2.15	1316	1113	8798	120.1	/	/
			2.06	1262	1138	9850	99.3	75.7	67.7
			1.93	1180	1173	10766	80.0	75.5	67.5
			1.85	1131	1196	11484	59.9	76.8	68.8
			1.76	1071	1216	12051	40.0	77.3	69.3
			1.66	1011	1237	12551	19.6	/	/
			1.60	969	1254	13074	0.7	/	/
Δ	380	50	3.12	1730	1360	10557	180.4	/	/
			3.07	1692	1366	11186	160.7	/	/
			2.97	1608	1374	11786	140.3	/	/
			2.89	1553	1378	12530	120.3	78.4	70.4
			2.79	1474	1383	12986	100.0	78.9	70.9
			2.72	1415	1390	13336	79.7	79.1	71.1
			2.66	1369	1394	13734	60.5	79.6	71.6
			2.61	1324	1398	14104	40.2	80.0	72
			2.52	1246	1405	14326	19.6	/	/
			2.48	1208	1405	14602	0.2	/	/

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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	380	50	2.86	1762	1004	5774	139.4	/	/
			2.70	1671	1043	6815	119.4	/	/
			2.80	1721	1034	10107	101.5	74.5	/
			2.67	1648	1072	11824	80.0	74.5	/
			2.56	1574	1099	12899	59.6	75.3	/
			2.51	1542	1111	13698	40.2	76.3	/
			2.39	1472	1138	14385	20.3	/	/
			2.31	1423	1155	14941	-0.1	/	/
Δ	380	50	4.23	2429	1333	12422	179.4	/	/
			4.15	2373	1337	13247	159.9	/	/
			4.05	2294	1344	14152	139.8	/	/
			3.93	2215	1352	14955	120.2	80	72
			3.80	2117	1360	15590	99.8	80.8	72.2
			3.74	2069	1366	16118	80.2	81.2	73.2
			3.61	1969	1374	16566	60.3	81.7	73.7
			3.56	1935	1375	16990	40.0	82	74
			3.49	1884	1379	17415	20.2	/	/
			3.41	1815	1387	17797	0.3	/	/

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

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