Prüfbericht - Produkte
Test Report - Products

TÜVRheinland®

Prüfbericht-Nr.: *Test report no.:*	**60441253 024**	**Auftrags-Nr.:** *Order no.:*	**170274727** (P00219498)	Seite 1 von 6 *Page 1 of 6*
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2021.05.20	
Auftraggeber: *Client:*	**Beacon International Limited** Room 5, 18/F, Kimberland Center, 5 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong			
Prüfgegenstand: *Test item:*	Ceiling Fan			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	WHITEHAVEN 56IN DC FAN			
Auftrags-Inhalt: *Order content:*	Noise test			
Prüfgrundlage: *Test specification:*	EN 60704-1:2010+A11:2012 EN 60704-2-7:2020			
Wareneingangsdatum: *Date of sample receipt:*	2021.05.11~2021.05.28			
Prüfmuster-Nr.: *Test sample no:*	A170274727			
Prüfzeitraum: *Testing period:*	2021.05.21~2021.06.03			
Ort der Prüfung: *Place of testing:*	See page 2			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Guangdong) Ltd.			
Prüfergebnis*: *Test result*:*	Siehe Sonstiges / See Other			

geprüft von: *tested by:*
Signed by: Sandy Huang

Datum: *Date:* 2021.06.04

Stellung */ Position:* Project Engineer

genehmigt von: *authorized by:*
Signed by: Marco Yuan

Ausstelldatum: *Issue date:* 2021.06.17

Stellung */ Position:* Reviewer

Sonstiges */ Other:* Refer to report

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:* Prüfmuster vollständig und unbeschädigt / *Test item complete and undamaged*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.
This test report only relates to the a. m. 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 test mark.

V05

General remarks

This test report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

Copy of Nameplate - (according to the separate submitted document)

N/A

Test Standard

EN 60704-1:2010+A11:2012, Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements

EN 60704-2-7:2020, Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2: Particular requirements for fans

Summary of testing

-Test place:

Electrical Safety Lab. of Guangdong Inspection & Quarantine Technology Center
No.3 East Desheng Road, Shunde Daliang, Foshan, Guangdong, P.R.China

Prüfbericht - Nr.: 60441253 024
Test Report No.:

Unit Under Test (UUT) ..... :	Ceiling fan
Model / Type under test ..... :	WHITEHAVEN 56IN DC FAN / 213040
Test case does not apply to the test object ..... :	N /A
Test item does meet the requirement ..... :	P(ass)
Test item does not meet the requirement ..... :	F(ail)
Testing	
Date of receipt of test item ..... :	See cover page
Date(s) of performance of test ..... :	See cover page
Test Condition	
Ambient temperature ..... :	20.9°C
Relative humidity..... :	61.0%
Test Voltage and frequency ..... :	230V~ 50Hz
Ambient air pressure..... :	101.4 kPa

Test parameter

Criteria -Test

The product is installed, pre-conditioned and operated according to the clause 6 of EN 60704-1, EN 60704-2-7 under manufacturer's recommendation.

The product is measured according to clause 7 of EN 60704-1, EN 60704-2-7 and operation status recommended by manufacturer.

The product is measured according to clause 8 of EN 60704-1, EN 60704-2-7.

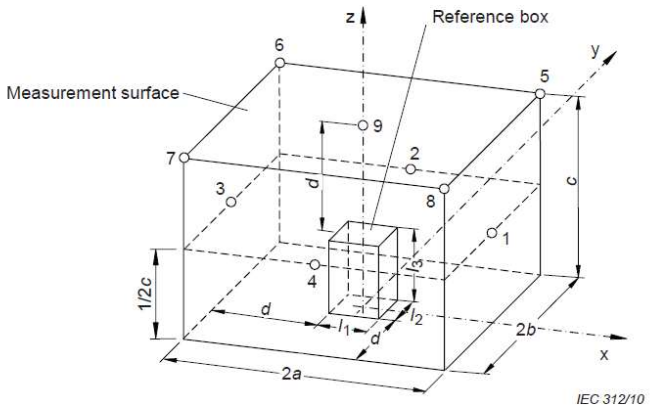
The measurement surface is rectangular surface with nine microphone positions

Co-ordinates of microphone positions:

N°	*x*	*y*	*z*
1	a	0	0,5c
2	0	b	0,5c
3	-a	0	0,5c
4	0	-b	0,5c
5	a	b	c
6	-a	b	c
7	-a	-b	c
8	a	-b	c
9	0	0	c

Measurement surface area:

$S = 2\,(2bc + 2ac + 2ab)$



The sound power level can be calculated from below formula:

$$L_W = L_{pmc} + 10\ \lg\left(\frac{S}{S_o}\right) \text{dB} \quad \text{(Ref. 1 pW)}$$

Where

L_{pmc} is the A-weighted or frequency band surface sound pressure level;

S is area, in meter square meters, of the measurement surface;

S_o is 1 m^2.

Result

Background noise level: 17.0 dB(A)

S: 50.14 m^2

S_0: 1 m^2

Speed setting	High	Medium (speed 4)	Low
Sound pressure level of each microphone (dB(A))	27.13	19.57	16.91
	27.67	19.55	16.94
	27.36	19.60	16.61
	28.03	20.03	17.60
	26.08	18.77	18.40
	26.89	18.91	18.14
	26.74	18.90	16.61
	26.80	18.54	17.58
	35.39	24.80	17.57
Sound pressure level L_{pmc} (dB(A)) (after correction from background noise if necessary)	28.99	19.06	16.12
Sound power level Lw (dB(A))	**45.99**	**36.06**	**33.12**

Test equipment list:

Description	Type
Test chamber	4mx4mx3m
Noise Meter and PULSE Sound Power	3560-B-010 PULSE
Microphone	4190-L-001
Ruler	5m
Power Analyzer	3332

Annex: Product photo

Picture 1.

End of test report