TEST REPORT

ENERGY EFFICIENCY - ELECTRIC FAN

Report Number:	AGDB-EGZ-P24050353-1
Date of Issue:	11-Jul-2024
Date of Revise:	NONE
Testing Laboratory/Address:	Bureau Veritas Consumer Products Services (Guangzhou) Co., Ltd, Science City Branch Rm.101, G5 Building, South China Advanced Materials Innovation Park, No.31 Kefeng Rd, Guangzhou Science City, Guangzhou, 510663 China
Applicant: **Address 1:**	
Manufacturing Site/Address:	Same as the applicant
Testing Location/Address:	Same as the applicant
Product:	Electric Fan
Trade Mark:	N/A
Model(s):	YF-DE901, FT-23E, YF-DE902, YF-DE903, YF-DE904, YF-DE905, YF-DE906, YF-DE907, YF-DE908, YF-DE909
Model Similarity:	All models are identical except for model names.
Ratings:	220-240V; 50/60Hz; 25W
Date of Sample(s) Received:	28-May-2024
Date of Test Started:	30-May-2024
Date of Test Finished:	30-May-2024
Standard(s)/Regulation(s):	(EU) No 206/2012 + (EU) No 2016/2282 EN IEC 60879:2019 EN 50564:2011 EN 60704-1:2010 + A11:2012 EN IEC 60704-2-7:2020
Conclusion:	The product tested comply with the ErP requirements.
Prepared by (name, function, signature):	Mickey KONG Engineer
Approved by (name, function, signature):	Jeff ZHANG Performance Manager

Photos:

1. Nameplate showing model number and serial number (if applicable)

Other models are same as above label, except for model name.

2. Product of product.


0 1 2

Product Details

Item	Data
Model Number of Unit Under Tested	YF-DE901
Serial Number	N/A
Condition of Sample(s)	Production
Type of Fan	Table fan
Sweep size or equivalent sweep size (for bladeless fan) [mm]	210
Number of fan speed	2
Control type of fan speed	Mechanical knob
Oscillation style	Right to Left

Critical Components

Name	Manufacturer / Trademark	Type / Model	Technical data
Fan motor		M-23	220V-240V~; 50Hz/60Hz; 25W

Ecodesign requirements

Clause	Ecodesign requirements - GENERIC ECODESIGN REQUIREMENTS	Result - Remark	Verdict
2	REQUIREMENTS FOR MAXIMUM POWER CONSUMPTION IN OFF-MODE AND STANDBY MODE		Pass
(a)	From 1 January 2013 comfort fans shall fulfil the requirements on standby and off mode as indicated in Table 2.		Pass
Off mode	Power consumption of equipment in any off-mode condition shall not exceed 1,00 W		Pass
Standby mode	The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 1,00 W		N/A
	The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 2,00 W		N/A
Availability of standby and/or off mode	Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source		Pass
(d)	From 1 January 2014 comfort fans shall correspond to requirements as indicated in Table 7		Pass
Off mode	Power consumption of equipment in any off-mode condition shall not exceed 0,50 W		Pass
Standby mode	The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 0,50 W		N/A
	The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 1,00 W		N/A
Availability of standby and/or off mode	Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source		Pass

Clause	Ecodesign requirements - GENERIC ECODESIGN REQUIREMENTS	Result - Remark	Verdict
Power management	When equipment is not providing the main function, or when other energy- using product(s) are not dependent on its functions, equipment shall, unless inappropriate for the intended use, offer a power management function, or a similar function, that switches equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into: — standby mode, or — off mode, or — another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source. The power management function shall be activated before delivery.		N/A
3	PRODUCT INFORMATION REQUIREMENTS		Pass
(a)	From 1 January 2013, as regards comfort fans, the information set out in points below and calculated in accordance with Annex II shall be provided on:		Pass
(i)	the technical documentation of the product		Pass
(ii)	free access websites of manufacturers of comfort fans		Pass
(b)	The manufacturer of comfort fans shall provide laboratories performing market surveillance checks, upon request, the necessary information on the setting of the unit as applied for the establishment of service values and provide contact information for obtaining such information.		Not check
(e)	Information requirements for comfort fans		Pass
	Manufacturer shall provide information as detailed in the table		Pass

Conventional fan other than ceiling fan

Sensor #	Radius of circle	Velocity [m/min]				Average Vel.	Circle area [m²]	Airflow [m³/min]
		Left	Right	Up	down			
1	20	116.13	121.27	123.34	120.9	-	-	-
2	60	144.23	156.01	128.53	138.11	131.07	0.0101	1.32
3	100	126.05	123.57	105.38	128.59	131.31	0.0201	2.64
4	140	110.26	111.28	52.82	87.9	105.73	0.0302	3.19
5	180	74.03	82.37	23.11	59.56	75.17	0.0402	3.02
6	220	60.32	44.42	12.32	35.06	48.90	0.0503	2.46
7	260	34.04	22.45	2.26	8.74	27.45	0.0603	1.66
8	300	16.28	3.68	0.27	3.14	11.36	0.0704	0.00
							Total airf low [m³/min]:	14.28
							Maximum velocity [m/min]:	131.31
							Power input [W]:	19.90

Off Mode Power

How is the mode selected or programmed	Connect the power cord to the power supply.
Sequence of events to reach the mode where the product automatically changes mode	N/A
Any notes regarding the operation of the product	N/A
Ambient temp. in °C	23.5
Test voltage in V	230
Test frequency in Hz	50
Total harmonic distortion of the supply system in %	1.2
Test method	Average reading method
Power in W	0.00

Sound power test

Item	Unit	Value								
Method	--	Parallelepiped measurement surface								
a	*mm*	1110								
b	*mm*	1140								
c	*mm*	1410								
S	*m²*	17.75								
Test setting	-	High speed								
Test voltage	*V*	230.0								
Test frequency	*Hz*	50.0								
Ambient temperature	*℃*	23.9								
Relative humidity	*%*	68.9								
Background noise level	*dB*	17.6								
Microphone	--	1	2	3	4	5	6	7	8	9
L_{pi} (Average)	*dB*	39.83	36.79	39.14	37.57	33.05	33.44	33.84	33.62	33.04
10^0.1Lpi	--	9616	4775	8204	5715	2018	2208	2421	2301	2014
Averaged sound pressure level	*dB(A)*	36.4								
Sound power level	*dB(A)*	48.9								

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:

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

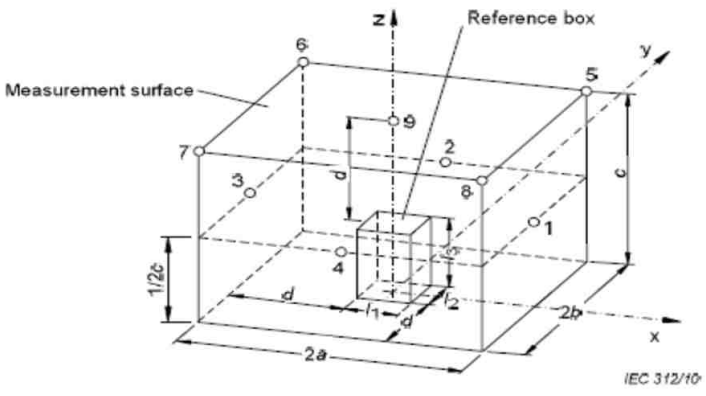

Figure 1 – Measurement surface – parallelepiped – with key microphone positions, for floor free-standing appliances

Conclusion

Item	*Symbol*	*Unit*	Tested	Rated
Maximum fan flow rate	*F*	m^3/min	14.3	-
Fan power input	*P*	*W*	19.9	-
Service value	*SV*	$(m^3/min)/W$	0.7	-
Off mode power consumption	-	*W*	0.0	
Standby power consumption	P_{SB}	*W*	-	-
Seasonal electricity consumption	*Q*	*kWh/a*	6.4	-
Fan sound power level	L_{WA}	*dB(A)*	48.9	-
Maximum air velocity	*c*	*meters/sec*	2.2	-