



TEST REPORT N° CFPG-ESH-P22112107

Eco-design requirements for comfort fans

LCIE

Report Reference No:	CFPG-ESH-P22112107		
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Date of issue	2022-12-06	Number of pages	9
Testing Laboratory name:	LCIE CHINA COMPANY LIMITED		
Address:	Building 4, No. 518, Xin Zhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai P.R.C (201612)		
Applicant's name:	Baorma Electrical Group Co., Ltd.		
Address:	No.789, Xintang Road, Fuhai Town,315332 Cixi City, Ningbo, Zhejiang Province - CHINA		
Test item description:	-		
Test object:	Air cooler		
Trade Mark:	N/A		
Model/Type reference:	FL-1802R,FL-2038R,FL-1702R,FL-1803R		
Serial numbers:	--		
Input range supply voltage / frequency:	220-240V~ 50-60Hz 65W		
Manufacturer:	Baorma Electrical Group Co., Ltd.		
Address:	No.789, Xintang Road, Fuhai Town,315332 Cixi City, Ningbo,Zhejiang Province - CHINA		
Test specification:			
Test procedures:	<input checked="" type="checkbox"/> Commission Regulation (EU) No. 206/2012 Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for air conditioners and comfort fans <input checked="" type="checkbox"/> Commission Regulation (EU) 2016/2282 amending Regulations with regard to the use of tolerances in verification procedures		
Test result:	Pass		

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Testing:	Air cooler
Sample size received:.....	4
Date of receipt of test item:	2022-11-30
Date of tests:	2022-11-30 to 2022-12-06

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Possible test case verdicts:	
- Test object does meet the requirement:	P (Pass)
- Test case does not apply to the test object:	N.A (Not applicable)
- Test object does not meet the requirement:	F (Fail)
- Test object does not demand	N.D (Not demanded)
General remarks:	
"(See remark #)" refers to a remark appended to the report.	
Throughout this report a comma is used as the decimal separator.	
The test results presented in this report relate only to the object tested.	
Test standard:	
- EN IEC 60879:2019	
- EN 50564:2011	
- EN 60704-1: 2010+A11:2012 (or EN IEC 60704-1:2021)& EN IEC 60704-2-7: 2020	

1. Pictures of samples and rating label

Picture of sample

FL-1802R



FL-2038R



FL-1702R



FL-1803R



2. Test parameters

Ambient temperature:	22,0
Test voltage(s) (V):	230
Test Frequency (ies) (Hz):.....	50
THD of the electricity supply system:	--

3. Evaluation

Requirements referred in Regulation (EC) no. 206/2012	
<input type="checkbox"/> Deadline for compliance – Stage 1	January 1 st , 2013
<input checked="" type="checkbox"/> Deadline for compliance – Stage 2	January 1 st , 2014

3.1 Availability of off-mode and/or standby mode

Availability of stand-by mode and/or off mode or any equivalent conditions as defined in the Regulation (EC) 206/2012:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Function compulsory	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Verdict	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail

3.2 Power consumption for stage 1 requirement:

	Measure	Requirement	Verdict
Standby mode With only reactivation function OR only reactivation function + mere indication of enabled reactivation function	-	1 W	--
Standby mode With only information or status display OR only information or status display + reactivation function	-	2 W	--
Off mode	-	1 W	--

3.3 Power consumption for stage 2 requirement:

	Measure	Requirement	Verdict
Standby mode With only reactivation function OR only reactivation function + mere indication of enabled reactivation function	0,1W	0,5 W	P
Standby mode With only information or status display OR only information or status display + reactivation function	--	1 W	--
Off mode	--	0,5 W	--

3.4 Power management (This paragraph is only applicable for compliance with stage 2.)

Availability of power management function or a similar function as defined in the Regulation (EC) 206/2012:	<input checked="" type="checkbox"/> Yes	No <input type="checkbox"/>
Function compulsory	<input checked="" type="checkbox"/> Yes	No <input type="checkbox"/>
Verdict	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail <input type="checkbox"/> N/A

4. Test data

From 1 January 2013, as regards comfort fans, the information set out in points below and calculated in accordance with Annex II of implementing measure 206/2012 shall be provided on:

- (i) the technical documentation of the product;
- (ii) free access websites of manufacturers of comfort fans;

Sample A : FL-1802R

Information to identify the model(s) to which the information relates to <i>[fill in as necessary]</i>			
Description	Symbol	Value	Unit
Maximum fan flow rate	F	7,15	m ³ /min
Fan power input	P	59,6	W
Service Value	SV	0,12	(m ³ /min)/W
Standby power consumption	P _{SB}	0,1	W
Fan sound power level	L _{WA}	54,2	dB(A)
Maximum air velocity	c	3,8	Meters/sec
Seasonal electricity consumption	Q	19,07	kWh/a
Measurement standard for service value	EN IEC 60879:2019 – Comfort fans and regulators for household and similar purposes – Methods for measuring performance		
Contacts details for obtaining more information	<i>Name and address of the manufacturer or of its authorised representative.</i>		

Sample B : FL-2038R

Information to identify the model(s) to which the information relates to <i>[fill in as necessary]</i>			
Description	Symbol	Value	Unit
Maximum fan flow rate	F	5,57	m ³ /min
Fan power input	P	50,6	W
Service Value	SV	0,11	(m ³ /min)/W
Standby power consumption	P _{SB}	0,1	W
Fan sound power level	L _{WA}	52,3	dB(A)
Maximum air velocity	c	3,4	Meters/sec
Seasonal electricity consumption	Q	16,19	kWh/a
Measurement standard for service value	EN IEC 60879:2019 – Comfort fans and regulators for household and similar purposes – Methods for measuring performance		
Contacts details for obtaining more information	<i>Name and address of the manufacturer or of its authorised representative.</i>		

Sample C: FL-1702R

Information to identify the model(s) to which the information relates to <i>[fill in as necessary]</i>			
Description	Symbol	Value	Unit
Maximum fan flow rate	F	5,84	m ³ /min
Fan power input	P	64,9	W
Service Value	SV	0,09	(m ³ /min)/W
Standby power consumption	P _{SB}	0,1	W
Fan sound power level	L _{WA}	54,1	dB(A)
Maximum air velocity	c	3,9	Meters/sec
Seasonal electricity consumption	Q	20,77	kWh/a
Measurement standard for service value	EN IEC 60879:2019 – Comfort fans and regulators for household and similar purposes – Methods for measuring performance		

Sample D: FL-1803R

Information to identify the model(s) to which the information relates to <i>[fill in as necessary]</i>			
Description	Symbol	Value	Unit
Maximum fan flow rate	F	5,44	m ³ /min
Fan power input	P	60,4	W
Service Value	SV	0,09	(m ³ /min)/W
Standby power consumption	P _{SB}	0,1	W
Fan sound power level	L _{WA}	53,9	dB(A)
Maximum air velocity	c	3,7	Meters/sec
Seasonal electricity consumption	Q	19,33	kWh/a
Measurement standard for service value	EN IEC 60879:2019 – Comfort fans and regulators for household and similar purposes – Methods for measuring performance		

Note:

1. Tests mentioned above except fan power input (P) have been performed at the maximum speed adjustable and without oscillation, mist and other function of the fan;
2. Test standard for sound power level EN 60704-1: 2010+A11:2012 (or EN IEC 60704-1:2021) & EN IEC 60704-2-7: 2020

5. Critical components list and pictures:

Motor	Baoerma Electric Appliance Group Co.,Ltd.	KYT-500	220-240V~, 50/60Hz, 55W, Class 120	EN 60335-1 EN 60335-2-80 EN 60335-2-98	Tested with appliance
Alternative	NINGBO BAOMA ELECTRICAL CO.,LTD	KYT-500	220-240V~, 50/60Hz, 55W, Class 120	EN 60335-1 EN 60335-2-80 EN 60335-2-98	Tested with appliance
Motor running capacitor	Zhejiang Yuwang Electric Appliance Co.,Ltd.	CBB61	400/450/500V~, 50/60Hz, 1,2μF/1,5μF	EN 60252-1	TUV*/R50051386
Alternative	Zhejiang Yuwang Electric Appliance Co.,Ltd.	CBB61B	400/450V~, 50/60Hz, 1,2μF/1,5μF	EN 60252-1	TUV*/R50051386
Alternative	Zhejiang Yuwang Electric Appliance Co.,Ltd.	CBB61C	450/500V~, 50/60Hz, 1,2μF/1,5μF	EN 60252-1	TUV*/R50051386

