

<p align="center">TEST REPORT</p> <p align="center">EN 60704-1:2010+A11:2012 & EN 60704-2-7:1998</p> <p align="center">Household and similar electrical appliances</p> <p align="center">Test code for the determination of airborne acoustical noise</p> <p align="center">Part 2: Particular requirements for fans</p> <p align="center">EN 50564:2011</p> <p align="center">Electrical and electronic household and office equipment-Measurement of low power consumption</p> <p align="center">ISO 5801:2007(E)</p> <p align="center">Industrial fans — Performance testing using standardized airways</p>	
Report Reference No. :	CGF-ESH-P20110165
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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:	Cixi Changfeng Electric Appliance Factory
Address:	East Industrial Zone Guanhaiwei Town Cixi, Zhejiang 315314 P.R.China
Test specification:	
Standard..... :	ISO 5801:2007(E), EN 60704-1:2010+A11:2012 & EN 60704-2-7:1998 EN 50564:2011
Test procedure:	☒ Commission Regulation (EU) No. 206/2012 of 6 March 2012 and Amending Commission Regulation (EU) 2016/2282 Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for air conditioners and comfort fans
Non-standard test method.....:	N/A
Test Report Form No. :	TRF_ ISO 5801 & EN 60704& EN 50564A
Test Report Form(s) Originator..... :	LCIE
Master TRF	2016-07-08
Test item description	
Test object..... :	Fan
Trade Mark..... :	-
Model/Type reference	ATF-011L, ATF-011HL, ATF-010L
Input range supply voltage / frequency	220-240V~, 50Hz, 60W
Manufacturer	Cixi Changfeng Electric Appliance Factory
Address	East Industrial Zone Guanhaiwei Town Cixi, Zhejiang 315314 P.R.China
Test result:	PASS

Note: The test results presented in this report relate only to the sample submitted by client tested and also cannot be used for other purpose except the use presented.

Pictures of the samples	
<p>ATF-010L</p>  A full-length photograph of the ATF-010L tower fan. It is a tall, slender unit with a black upper section and a white base. A yellow measuring tape is placed vertically next to it for scale. The background shows a white wall with electrical outlets and a concrete floor.	<p>ATF-010L</p>  A close-up photograph of the control panel of the ATF-010L. The panel is black and features several touch-sensitive buttons with icons for power, fan speed, and other functions. A yellow measuring tape is visible in the background.
<p>ATF-011HL</p>  A full-length photograph of the ATF-011HL tower fan. It is a tall, slender unit with a white body and a black top section. A yellow measuring tape is placed vertically next to it for scale. The background shows a white wall with electrical outlets and a concrete floor.	<p>ATF-011HL</p>  A close-up photograph of the control panel of the ATF-011HL. The panel is silver and features several touch-sensitive buttons with icons for power, fan speed, and other functions. A yellow measuring tape is visible in the background.
<p>ATF-011L</p>  A full-length photograph of the ATF-011L tower fan. It is a tall, slender unit with a white body and a black top section. A yellow measuring tape is placed vertically next to it for scale. The background shows a white wall with electrical outlets and a concrete floor.	<p>ATF-011L</p>  A close-up photograph of the control panel of the ATF-011L. The panel is silver and features several touch-sensitive buttons with icons for power, fan speed, and other functions. A yellow measuring tape is visible in the background.

Test item particulars.....: Fan

Classification of installation and use.....: Class II

Supply Connection.....: A type Y Non-detachable supply cord with plug

Possible test case verdicts:

- | | |
|--|---------------------|
| - Test object does meet the requirement: | P (Pass) |
| - Test case does not apply to the test object: | NA (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.

Performance test results

Description	Model	Value	Unit
Test voltage	ATF-011L	230	V
Test frequency		50	Hz
Maximum fan flow rate		3,1	m³/min
Maximum air velocity		3,4	Meters/sec
Note: tested both 50Hz and 60Hz, 50Hz more unfavourable.			

Description	Model	Value	Unit
Test voltage	ATF-011HL	230	V
Test frequency		50	Hz
Maximum fan flow rate		3,1	m³/min
Maximum air velocity		3,4	Meters/sec
Note: tested both 50Hz and 60Hz, 50Hz more unfavourable.			

Description	Model	Value	Unit
Test voltage	ATF-010L	230	V
Test frequency		50	Hz
Maximum fan flow rate		3,3	m³/min
Maximum air velocity		3,6	Meters/sec
Note: tested both 50Hz and 60Hz. 50Hz more unfavourable.			

Requirements for maximum power consumption in off-mode and standby mode

Mode	Ecodesign requirements, From Jan,01.2013	Result-Remark	Verdict
Off mode	Power consumption of equipment in any off-mode condition shall not exceed 1,00W	-	NA
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 1,00W.	-	NA
	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 2,00W.	-	NA
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.	-	NA
Mode	Ecodesign requirements, From Jan,01.2014	Result-Remark	Verdict
Off mode	Power consumption of equipment in any off-mode condition shall not exceed 0,50W		NA
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 0,50W.	-	NA
	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 1,00W.	0,2 W	P

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.	-	NA
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 switched 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.	-	NA

Fan sound power level test

Model: ATF-011L										
Test voltage/frequency:		230V~ / 50Hz								
Fan setting:		Maximum speed								
Oscillating mechanism (if applicable):		Turned off								
Measured surface:		See figure 1								
Address and environments:	Background noise	<20 dB(A)								
	Radius of free field	4.0 m								
	Ambient temperature	22 °C								
	Relative humidity	74 %RH								
	Wind velocity	<0,5 m/s								
Microphone Position		1	2	3	4	5	6	7	8	9
Lpi: (circle 1)		48,3	47,3	49,9	50,5	43,6	44,5	43,8	43,9	46,6
Lpi: (circle 2)		48,5	47,0	49,8	49,9	43,9	44,4	43,4	43,7	46,7
Lpi: (circle 3)		48,4	47,5	50,1	50,3	43,7	44,7	43,9	44,1	46,5
LW/ Sound power level		60,3 dB(A)								

Model: ATF-011HL										
Test voltage/frequency:		230V~ / 50Hz								
Fan setting:		Maximum speed								
Oscillating mechanism (if applicable):		Turned off								
Measured surface:		See figure 1								
Address and environments:	Background noise	<20 dB(A)								
	Radius of free field	4.0 m								
	Ambient temperature	22 °C								
	Relative humidity	74 %RH								
	Wind velocity	<0,5 m/s								
Microphone Position		1	2	3	4	5	6	7	8	9
Lpi: (circle 1)		48,2	47,2	48,2	49,5	43,5	44,3	43,7	43,5	46,1
Lpi: (circle 2)		48,7	47,5	49,0	49,6	43,4	44,5	43,5	43,9	46,3
Lpi: (circle 3)		48,3	47,3	48,5	49,8	43,9	44,6	43,6	44,0	46,5
LW/ Sound power level		60,2 dB(A)								

Model: ATF-010L										
Test voltage/frequency:		230V~ / 50Hz								
Fan setting:		Maximum speed								
Oscillating mechanism (if applicable):		Turned off								
Measured surface:		See figure 1								
Address and environments:	Background noise	<20 dB(A)								
	Radius of free field	4.0 m								
	Ambient temperature	22 °C								
	Relative humidity	74 %RH								
	Wind velocity	<0,5 m/s								
Microphone Position		1	2	3	4	5	6	7	8	9
Lpi: (circle 1)		49,2	47,4	50,2	50,4	43,2	44,7	43,7	43,8	46,2
Lpi: (circle 2)		49,5	47,6	50,1	50,3	43,5	44,8	43,5	44,2	46,5
Lpi: (circle 3)		49,3	47,6	50,3	50,0	50,0	44,5	43,6	44,1	46,8
LW/ Sound power level		61,2 dB(A)								

Appendix 1

Information Requirements

Model: ATF-011L			
Description	Symbol	Value	Unit
Maximum fan flow rate	F	3,1	m³/min
Fan power input	P	38,1	W
Service value	SV	0,08	(m³/min) / W
Standby power consumption	PSB	0,2	W
Seasonal electricity consumption	Q	12,4	KWh/a
Fan sound power level	LWA	60,3	dB(A)
Maximum air velocity	C	3,4	meters/sec

Model: ATF-011HL			
Description	Symbol	Value	Unit
Maximum fan flow rate	F	3,1	m³/min
Fan power input	P	38,4	W
Service value	SV	0,08	(m³/min) / W
Standby power consumption	PSB	0,2	W
Seasonal electricity consumption	Q	12,5	KWh/a
Fan sound power level	LWA	60,2	dB(A)
Maximum air velocity	C	3,4	meters/sec

Model: ATF-010L			
Description	Symbol	Value	Unit
Maximum fan flow rate	F	3,3	m³/min
Fan power input	P	68,9	W
Service value	SV	0,05	(m³/min) / W
Standby power consumption	PSB	0,2	W
Seasonal electricity consumption	Q	22,3	KWh/a
Fan sound power level	LWA	61,2	dB(A)
Maximum air velocity	C	3,6	meters/sec