





The following samples were submitted and identified on behalf of the client as:

TEST REPORT COMMISSION REGULATION (EU) No 206/2012 of 6 March 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	
Report Reference No	GZEE221000353831
Tested by (name + signature) :	Candy Chen /Project engineer <i>Candy Chen</i>
Approved by (+ signature)	Sky Lin /Reviewer <i>Sky Lin</i>
Date of issue :	2022-10-19
Testing Laboratory :	SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch
Address	Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China
Applicant's name	
Address	
Test specification:	
Standard..... :	COMMISSION REGULATION (EU) No 206/2012
Test procedure..... :	STR: EU Directive 2009/125/EC
Non-standard test method..... :	None
Test Report Form No	206/2012_03
Test Report Form(s) Originator..... :	SGS-CSTC
Master TRF..... :	2012-12-05
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Test item description	Electric Fan
Trade Mark	—
Manufacturer :	Same as applicant
Model/Type reference	See general product information for details
Ratings	See marking plate for details
Factory	Same as applicant



Summary of testing:	
<p>Tests performed (name of test and test clause):</p> <p>COMMISSION REGULATION (EU) No 206/2012.</p> <p>EN IEC 60879:2019</p> <p>YF-ST1627 was subjected with full tests and YF-ST1601 was subjected with low power consumption test.</p> <p>The test is carried out at voltage of 230V~, 50Hz;</p>	<p>Testing location:</p> <p>Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China</p>
Marking plate:	
<div style="border: 1px solid black; padding: 5px;"> <p>Electric Fan Model No.: YF-ST1627 220-240V~ 50/60Hz or 230V~ 50Hz 45W Made in China Jiangmen Elite Electric Appliance Manufacture Co.,Ltd. Building 1, No.12 Shanggang West 1st Road, Duruan Town,Pengjiang District, Jiangmen City, Guangdong Province, 529075, China</p>  </div>	<div style="border: 1px solid black; padding: 5px;"> <p>Electric Fan Model No.: YF-ST1601 220-240V~ 50/60Hz or 230V~ 50Hz 45W Made in China Jiangmen Elite Electric Appliance Manufacture Co.,Ltd. Building 1, No.12 Shanggang West 1st Road, Duruan Town,Pengjiang District, Jiangmen City, Guangdong Province, 529075, China</p>  </div>
<p>Remark:</p> <ol style="list-style-type: none"> The above marking plate is only a draft artwork to show the product ratings and model No.. The marking plates of other models are same as above except the model name. 	
Test item particulars :	
Classification of installation and use	Free standing
Supply Connection	Non-detachable power cord fitted with plug
..... :	
Possible test case verdicts:	
- test case does not apply to the test object.....	N/A
- test object does meet the requirement.....	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing :	
Date of receipt of test item	2022-10-09
Date (s) of performance of tests	2022-10-09 to 2022-10-17

General remarks:

The test results presented in this report relate only to the object tested.
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"(see Enclosure #)" refers to additional information appended to the report.

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

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

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General product information:

Household electric fan for indoor use only.

Models: YF-ST1601, FS-40C, YF-ST1602, YF-ST1603, FS-40A, YF-ST1606, YF-ST1607, YF-ST1604, FS-40B, YF-ST1605, FS-40, YF-ST1614, YF-ST1608, YF-ST1609, YF-ST1610, YF-ST1611, YF-ST1620, YF-ST1616, YF-ST1617, YF-ST1618, YF-ST1619, YF-ST1625, YF-ST1621, YF-ST1622, YF-ST1623, YF-ST1624, YF-ST1626, FS-40R, YF-ST1628, YF-ST1629, YF-ST1630, YF-ST1631, YF-ST1201-6, YF-ST1202-6, YF-ST1203-6, YF-ST1204-6, YF-ST1205-6, YF-ST1206-6, YF-ST1207-6, YF-ST1208-6, YF-ST1209-6, YF-ST1210-6, YF-ST1211-6, YF-ST1214-6, YF-ST1216-6, YF-ST1217-6, YF-ST1218-6, YF-ST1219-6, YF-ST1220-6, YF-ST1221-6, YF-ST1222-6, YF-ST1223-6, YF-ST1224-6, YF-ST1225-6, YF-ST1226-6, YF-ST1227-6, YF-ST1228-6, YF-ST1229-6, YF-ST1230-6, YF-ST1231-6, YF-ST1201-7, YF-ST1202-7, YF-ST1203-7, YF-ST1204-7, YF-ST1205-7, YF-ST1206-7, YF-ST1207-7, YF-ST1208-7, YF-ST1209-7, YF-ST1210-7, YF-ST1211-7, YF-ST1214-7, YF-ST1216-7, YF-ST1217-7, YF-ST1218-7, YF-ST1219-7, YF-ST1220-7, YF-ST1221-7, YF-ST1222-7, YF-ST1223-7, YF-ST1224-7, YF-ST1225-7, YF-ST1226-7, YF-ST1227-7, YF-ST1228-7, YF-ST1229-7, YF-ST1230-7, YF-ST1231-7, YF-ST1627, YF-DE1601, FT-40E, YF-DE1602, MTF-161, FT-40, YF-DE1603, YF-DE1604, FT-40B, YF-DE1605, YF-DE1606, YF-DE1201-6, YF-DE1202-6, YF-DE1203-6, MTF-126, YF-DE1204-6, YF-DE1205-6, YF-DE1206-6, YF-DE1201-7, YF-DE1202-7, MTF-12, YF-DE1203-7, YF-DE1204-7, YF-DE1205-7, YF-DE1206-7

YF-ST1601 is same as FS-40C, YF-ST1602, YF-ST1603, FS-40A, YF-ST1606, YF-ST1607, YF-ST1604, FS-40B, YF-ST1605, FS-40, YF-ST1614, YF-ST1608, YF-ST1609, YF-ST1610, YF-ST1611, YF-ST1620, YF-ST1616, YF-ST1617, YF-ST1618, YF-ST1619, YF-ST1625, YF-ST1621, YF-ST1622, YF-ST1623, YF-ST1624, YF-ST1626, FS-40R, YF-ST1628, YF-ST1629, YF-ST1630, YF-ST1631, YF-ST1201-6, YF-ST1202-6, YF-ST1203-6, YF-ST1204-6, YF-ST1205-6, YF-ST1206-6, YF-ST1207-6, YF-ST1208-6, YF-ST1209-6, YF-ST1210-6, YF-ST1211-6, YF-ST1214-6, YF-ST1216-6, YF-ST1217-6, YF-ST1218-6, YF-ST1219-6, YF-ST1220-6, YF-ST1221-6, YF-ST1222-6, YF-ST1223-6, YF-ST1224-6, YF-ST1225-6, YF-ST1226-6, YF-ST1227-6, YF-ST1228-6, YF-ST1229-6, YF-ST1230-6, YF-ST1231-6, YF-ST1201-7, YF-ST1202-7, YF-ST1203-7, YF-ST1204-7, YF-ST1205-7, YF-ST1206-7, YF-ST1207-7, YF-ST1208-7, YF-ST1209-7, YF-ST1210-7, YF-ST1211-7, YF-ST1214-7, YF-ST1216-7, YF-ST1217-7, YF-ST1218-7, YF-ST1219-7, YF-ST1220-7, YF-ST1221-7, YF-ST1222-7, YF-ST1223-7, YF-ST1224-7, YF-ST1225-7, YF-ST1226-7, YF-ST1227-7, YF-ST1228-7, YF-ST1229-7, YF-ST1230-7, YF-ST1231-7 except the shape of appearance and model name.

YF-ST1627 is same as YF-DE1601,FT-40E,YF-DE1602,MTF-161,FT-40,YF-DE1603,YF-DE1604,FT-40B,YF-DE1605,YF-DE1606,YF-DE1201-6,YF-DE1202-6,YF-DE1203-6,MTF-126,YF-DE1204-6,YF-DE1205-6,YF-DE1206-6,YF-DE1201-7,YF-DE1202-7,MTF-12,YF-DE1203-7,YF-DE1204-7,YF-DE1205-7,YF-DE1206-7 except the shape of appearance and model name.

YF-ST1627 is same as YF-ST1601 except the colour of appearance and control panel.

YF-ST1627 is electronic control and YF-ST1601 is mechanical control.

COMMISSION REGULATION (EU) No 206/2012			
Cl.	Requirement-Test	Result-Remark	Verdict
ANNEX I	Ecodesign requirements		—
1	DEFINITIONS APPLICABLE FOR THE PURPOSES OF THE ANNEXES		P
2	REQUIREMENTS FOR MINIMUM ENERGY EFFICIENCY, MAXIMUM POWER CONSUMPTION IN OFF-MODE AND STANDBY MODE AND FOR MAXIMUM SOUND POWER LEVEL		P
(a)	From 1 January 2013, single duct and double duct air conditioners shall correspond to requirements as indicated in Tables 1, 2 and 3 below, calculated in accordance with Annex II. Single duct and double duct air conditioners and comfort fans shall fulfil the requirements on standby and off mode as indicated in Table 2 below. The requirements on minimum energy efficiency and maximum sound power shall relate to the standard rating conditions specified in Annex II, Table 2.	See appended table	P
(b)	From 1 January 2013, air conditioners, except single and double duct air conditioners, shall correspond to minimum energy efficiency and maximum sound power level requirements as indicated in Tables 4 and 5 below, calculated in accordance with Annex II. The requirements on energy efficiency shall take into account the reference design conditions specified in Annex II, Table 3 using the 'Average' heating season where applicable.		N/A
	The requirements on sound power shall relate to the standard rating conditions specified in Annex II, Table 2		N/A
(c)	From 1 January 2014, air conditioners shall correspond to requirements as indicated in the table below, calculated in accordance with Annex II. The requirements on energy efficiency for air conditioners, excluding single and double duct air conditioners, shall relate to the reference design conditions specified in Annex II, Table 3 using the 'Average' heating season where applicable. The requirements on energy efficiency for single and double duct air conditioners shall relate to the standard rating conditions specified in Annex II, Table 2.		N/A
(d)	From 1 January 2014, single duct and double duct air conditioners and comfort fans shall correspond to requirements as indicated in Table 7 below, calculated in accordance with Annex II.	See appended table	P

COMMISSION REGULATION (EU) No 206/2012											
Cl.	Requirement-Test	Result-Remark	Verdict								
	<p><i>Table 7</i></p> <p>Requirements for maximum power consumption in off-mode and standby mode</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Off mode</td> <td style="padding: 5px;">Power consumption of equipment in any off-mode condition shall not exceed 0,50 W.</td> </tr> <tr> <td style="padding: 5px;">Standby mode</td> <td style="padding: 5px;">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.</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;">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.</td> </tr> <tr> <td style="padding: 5px;">Availability of standby and/or off mode</td> <td style="padding: 5px;">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.</td> </tr> </table>		Off mode	Power consumption of equipment in any off-mode condition shall not exceed 0,50 W.	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.		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.	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.	P
Off mode	Power consumption of equipment in any off-mode condition shall not exceed 0,50 W.										
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.										
	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.										
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.										
	Power management	<p>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:</p> <ul style="list-style-type: none"> — 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		P								
(a)	From 1 January 2013, as regards air conditioners and comfort fans, the information set out in points below and calculated in accordance with Annex II shall be provided on:		P								
	(i) the technical documentation of the product;		P								
	(ii) free access websites of manufacturers of air conditioners and comfort fans;		P								
(b)	The manufacturer of air conditioners and 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 declared capacities, SEER/EER, SCOP/COP values and service values and provide contact information for obtaining such information.		N/A								
	<p>(c) Information requirements for air conditioners, except double duct and single duct air conditioners.</p>		N/A								

COMMISSION REGULATION (EU) No 206/2012			
Cl.	Requirement-Test	Result-Remark	Verdict
	(d) Information requirements for single duct and double duct air conditioners. Single duct air conditioners shall be named 'local air conditioners' in packaging, product documentation and in any advertisement material, whether electronic or in paper. Manufacturer shall provide information as detailed in the table 2.		N/A
	(e) Information requirements for comfort fans. Manufacturer shall provide information as detailed in the table 3	See attached table 3	P
ANNEX II	Measurements and calculations		—
1	For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made using harmonised standards the reference numbers of which have been published in the Official Journal of European Union , or other reliable, accurate and reproducible method, which takes into account the generally recognised state of the art methods, and whose results are deemed to be of low uncertainty. They shall fulfil all of the following technical parameters.	EN IEC 60879:2019 EN IEC 60704-2-7:2020, EN IEC 60704-1: 2021, EN 50564: 2011	P
2	The determination of the seasonal energy consumption and efficiency for seasonal energy efficiency ratio (SEER) and seasonal coefficient of performance (SCOP) shall take into account:		N/A
	(a) European cooling and heating season(s), as defined in Table 1 below;		N/A
	(b) reference design conditions, as defined in Table 3 below;		N/A
	(c) electric energy consumption for all relevant modes of operation, using time periods as defined in Table 4 below;		N/A
	(d) effects of the degradation of the energy efficiency caused by on/off cycling (if applicable) depending on the type of control of the cooling and/or heating capacity;		N/A
	(e) corrections on the seasonal coefficients of performance in conditions where the heating load can not be met by the heating capacity;		N/A
	(f) the contribution of a back-up heater (if applicable) in the calculation of the seasonal efficiency of a unit in heating mode.		N/A

COMMISSION REGULATION (EU) No 206/2012			
Cl.	Requirement-Test	Result-Remark	Verdict
3	Where the information relating to a specific model, being a combination of indoor and outdoor unit(s), has been obtained by calculation on the basis of design, and/or extrapolation from other combinations, the documentation should include details of such calculations and/or extrapolations, and of tests undertaken to verify the accuracy of the calculations undertaken (including details of the mathematical model for calculating performance of such combinations, and of measurements taken to verify this model).		N/A
4	The rated energy efficiency ratio (EER rated) and, when applicable, rated coefficient of performance (COP rated) for single and double duct air conditioners shall be established at the standard rating conditions as defined in Table 2 below.		N/A
5	The calculation of seasonal electricity consumption for cooling (and/or heating) shall take into account electric energy consumption of all relevant modes of operation, as defined in Table 3 below, using operational hours, as defined in Table 4 below.		N/A
6	The comfort fan efficiency shall be determined on the basis of the nominal air flow rate of the unit divided by the nominal electric power input of the unit.		N/A
NNEX III	Verification procedure for market surveillance purposes		—
	When performing the market surveillance checks referred to in Article 3(2) of Directive 2009/125/EC, the authorities of the Member States shall apply the following verification procedure for the requirements set out in Annex I.		—
1	The authorities of the Member State shall test one single unit.		P
2	The air conditioner model, except single and double duct air conditioners, shall be considered to comply with the requirements set out in Annex I, as applicable, to this Regulation, if its seasonal energy efficiency ratio (SEER), or seasonal coefficient for performance (SCOP), if applicable, is not less than the declared value minus 8 % at the declared capacity of the unit. The SEER and SCOP values shall be established in accordance with Annex II.		N/A
	The model of a single and double duct air conditioner shall be considered to comply with the requirements set out in Annex I, as applicable, to this Regulation, if the results for off-mode and standby-mode conditions do not exceed the limit values by more than 10 %, and if the energy efficiency ratio (EER rated), or coefficient for performance (COP rated), if applicable, is not less than the declared value minus 10 %. The EER and COP values shall be established in accordance with Annex II.		N/A

COMMISSION REGULATION (EU) No 206/2012			
Cl.	Requirement-Test	Result-Remark	Verdict
	The air conditioner model shall be considered to comply with the requirements set out in this Regulation, as applicable, if the maximum sound power level does not exceed more than 2 dB(A) of the declared value.		N/A
3	If the result referred to in point 2 is not achieved, the market surveillance authority shall randomly select three additional units of the same model for testing.		N/A
4	The air conditioner model, except single and double duct air conditioners, shall be considered to comply with the requirements set out in Annex I, as applicable, to this Regulation, if the average of the three units for the seasonal energy efficiency ratio (SEER), or seasonal coefficient of performance (SCOP), if applicable, is not less than the declared value minus 8 % at the declared capacity of the unit. The SEER and SCOP values shall be established in accordance with Annex II.		N/A
	The model of a single and double duct air conditioner shall be considered to comply with the requirements set out in Annex I, as applicable, to this Regulation, if the average of the results of the three units for off-mode and standby- mode conditions do not exceed the limit values by more than 10 %, and if the average of the energy efficiency ratio (EER rated), or coefficient of performance (COP rated), if applicable, is not less than the declared value minus 10 %. The EER and COP values shall be established in accordance with Annex II.		N/A
	The air conditioner model shall be considered to comply with the requirements set out in this Regulation, as applicable, if the average of the maximum sound power level does not exceed more than 2 dB(A) of the declared value.		N/A
5	If the results referred to in point 4 are not achieved, the model shall be considered not to comply with this Regulation.		N/A
	For the purposes of checking conformity with the requirements of this Regulation, Member States shall apply the procedures referred to in Annex II, and harmonised standards the reference numbers of which have been published in the Official Journal of the European Union, or other reliable, accurate and reproducible calculation and measurement methods, which take into account the generally recognised state-of-the-art.		P

Table 1: Information requirements for air conditioners, except double duct and single duct air conditioners.	N/A
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Table 2: Information requirements for single duct and double duct air conditioners	N/A
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Information to identify the model(s) to which the information relates to [fill in as necessary]:

Table 3: Information requirements for comfort fans.	P
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Information to identify the model(s) to which the information relates to [fill in as necessary]:







Description	Symbol	Value	Unit
Maximum fan flow rate	F	37,98	m ³ /min
Fan power input	P	40,80	W
Service value	S _V	0,93	(m ³ /min)/W
Standby power consumption	P _{SB}	YF-ST1627:0,38	W
Off power consumption	P _{OFF}	YF-ST1601: 0	W
Fan sound power level	L _{WA}	53,71	dB(A)
Maximum air velocity	C	3,19	meters/sec
Seasonal electricity consumption	Q	13,48	kWh/a
Measurement standard for service value	EN IEC 60879:2019		
Contact details for obtaining more information			

Requirements for maximum power consumption in off-mode and standby mode for single duct and double duct air conditioners and comfort fans

Mode	From 1 January 2013	Result	Verdict
Off mode	Power consumption of equipment in any off-mode condition shall not exceed 0,5 W.	YF-ST1601: 0 W	P
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 0,5 W.	YF-ST1627:0,38 W	P
	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.		P

Mode	From 1 January 2014	Result	Verdict
Off mode	Power consumption of equipment in any off-mode condition shall not exceed 0,5 W.	YF-ST1601: 0 W	P
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.	YF-ST1627:0,38 W	P
	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.		P

Photo documents:

<p>Product general view (YF-ST1627)</p> 	<p>Product general view (YF-ST1627)</p> 
<p>Product general view (YF-ST1627)</p> 	<p>Product general view (YF-ST1627)</p> 
<p>Control panel view (YF-ST1627)</p> 	<p>Control panel view (YF-ST1601)</p> 

--- End of Report ---