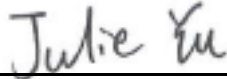
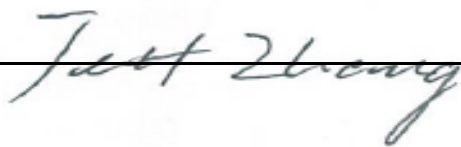




# TEST REPORT

**BUREAU  
VERITAS**

## ENERGY EFFICIENCY - ELECTRIC FAN

<b>Report Number:</b>	AAWI-EGZ-P22090067-1
<b>Date of Issue:</b>	13-Oct-2022
<b>Date of Revise:</b>	NONE
<b>Testing Laboratory/Address:</b>	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
<b>Applicant/Address:</b>	Gmerit Electric Manufacturing Co., Ltd. The 7th of No.1, Xinxi North Yi Heng Road, Xichong Village, Lunjiao Street, Shunde District, Foshan City, Guangdong Province, P.R.China
<b>Manufacturing Site/Address:</b>	Same as the applicant
<b>Testing Location/Address:</b>	Foshan shunde guoce testing technology Co.,LTD. No.3 East Desheng Road, Shunde Daliang, Foshan, Guangdong, China
<b>Product:</b>	Electric fan
<b>Trade Mark:</b>	N/A
<b>Model(s):</b>	FT15A, FW15A, FTW15A, FT23A, FT30A, FT40A, FS40C, FS40D, FS40T, FS40ET, FS40T PRO, FT23F, FT30F, FT30G, FT40F, FT40G, FS40F, FS40F-2, FS40G, FS40G-2, FT15A2, FT23A1, FT30A1, FT40A1, FS40T PRO1, FS40ET1
<b>Model Similarity:</b>	All models have identical internal construction. Model differences are as model list and description.
<b>Ratings:</b>	220-240V~, 50Hz, Class II, IPX0; Ref. to model list for rating power
<b>Date of Sample(s) Received:</b>	27-Jun-2021
<b>Date of Test Started:</b>	27-Jun-2021
<b>Date of Test Finished:</b>	22-Jul-2021
<b>Standard(s)/Regulation(s):</b>	(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
<b>Conclusion:</b>	The product tested comply with the ErP requirements.
<b>Prepared by (name, function, signature):</b>	Julie YU Engineer 
<b>Approved by (name, function, signature):</b>	Jeff ZHANG Performance Manager 

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report. the tests conducted and the correctness of the report contents.

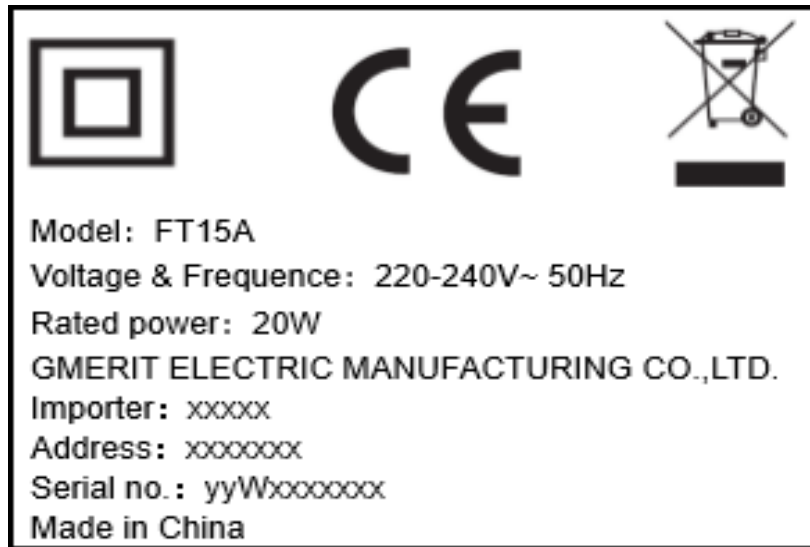
## Model list

Size and type	Model No.	Power	Control type	Rotation motor (if any)
6 inch table fan	FT15A, FW15A, FTW15A	20W	Rotary button	No
	FT15A2	12W		
9 inch table fan	FT23A	30W	Push-button	
	FT23A1	22W	Rotary button	
	FT23F	30W		
12 inch table fan	FT30A	40W	Push-button	
	FT30A1	37W		
	FT30F, FT30G	40W	Rotary button	
16 inch table fan	FT40A	50W	Push-button	
	FT40A1	45W		
	FT40F, FT40G	50W	Rotary button	
16 inch pedestal fan	FS40C, FS40T, FS40T PRO	50W	Push-button	
	FS40T PRO1	45W		
	FS40D, FS40F, FS40G	50W	Rotary button	
	FS40ET	50W	Control panel	
	FS40ET1	45W		

- FT40A, FS40C, FS40D, FS40T, FS40T PRO and FS40ET have same fan motor.
- FS40ET1 and FS40ET are identical except for rated power.
- FS40C, FS40D, FS40T and FS40T PRO are identical except for appearance.
- FS40T PRO1 and FS40T PRO identical except for rated power.
- FS40C, FS40D, FS40T, FS40T PRO and FS40ET with "+" type shape base or circular base.
- FT15A, FW15A and FTW15A are identical except for base.
- FT15A2 and FTW15A are identical except for rated power.
- FT23A and FT23F are identical except for appearance and different switches.
- FT23A1 and FT23A are identical except for rated power.
- FT30A, FT30F and FT30G are identical except for appearance and different switches.
- FT30A1 and FT30A are identical except for rated power.
- FT30F and FT40F was same except for different motor, fan blades size and fan guard size.
- FT30G and FT40G was same except for different motor, fan blades size and fan guard size.
- FT40A, FT40F and FT40G are identical except for appearance and different switches.
- FT40A1 and FT40A are identical except for rated power.
- FS40D, FS40F and FS40G are identical except for appearance and different switches
- FS40F-2 can be used as FS40F or FT40F, when equipped with different accessories.
- FS40G-2 can be used as FS40G and FT40G, when equipped with different accessories.

**Photos:**

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



Marking plates of other models are same as above except the model numbers and rated power.

**2. Appliance as received For FT23A and FT23A1 (including all parts and application)**



**3. Appliance as received For FT30A and FT30A1 (including all parts and application)**



**4. Appliance as received FT40A and FT40A1 (including all parts and application)**



**5. Appliance as received For FS40ET and FS40ET1 (including all parts and application)**



**6. Appliance as received For FS40C (including all parts and application)**



**7. Appliance as received For FS40D (including all parts and application)**



**8. Appliance as received For FS40T (including all parts and application)**



**9. Appliance as received For FS40T PRO, FS40T PRO1 (including all parts and application)**



**10. Appliance as received For FT15A, FT15A2 (including all parts and application)**



11. Appliance as received For FTW15A (including all parts and application)





**Product Details**

Item	Data
Model Number of Unit Under Tested	FT15A
Serial Number	N/A
Condition of Sample(s)	Production
Type of Fan	Table fan
Sweep size or equivalent sweep size (for bladeless fan) [mm]	200
Number of fan speed	3
Control type of fan speed	Mechanical knob
Oscillation style	N/A

Item	Data
Model Number of Unit Under Tested	FT23A
Serial Number	N/A
Condition of Sample(s)	Production
Type of Fan	Table fan
Sweep size or equivalent sweep size (for bladeless fan) [mm]	220
Number of fan speed	3
Control type of fan speed	Push button
Oscillation style	Right to Left

Item	Data
Model Number of Unit Under Tested	FT30A
Serial Number	N/A
Condition of Sample(s)	Production
Type of Fan	Table fan
Sweep size or equivalent sweep size (for bladeless fan) [mm]	290
Number of fan speed	3
Control type of fan speed	Push button
Oscillation style	Right to Left

Item	Data
Model Number of Unit Under Tested	FT40A
Serial Number	N/A
Condition of Sample(s)	Production
Type of Fan	Table fan
Sweep size or equivalent sweep size (for bladeless fan) [mm]	360
Number of fan speed	3
Control type of fan speed	Push button
Oscillation style	Right to Left

Item	Data
Model Number of Unit Under Tested	FS40ET
Serial Number	N/A
Condition of Sample(s)	Production
Type of Fan	Pedestal fan
Sweep size or equivalent sweep size (for bladeless fan) [mm]	360
Number of fan speed	3
Control type of fan speed	Electric Button
Oscillation style	Right to Left

Item	Data
Model Number of Unit Under Tested	FS40T
Serial Number	N/A
Condition of Sample(s)	Production
Type of Fan	Pedestal fan
Sweep size or equivalent sweep size (for bladeless fan) [mm]	360
Number of fan speed	3
Control type of fan speed	Push button
Oscillation style	Right to Left

## Critical Components

Name	Manufacturer / Trademark	Type / Model	Technical data
Motor (for all models with rated power 50W or FS40T PRO1, FT40A1, FS40ET1)	GMERIT ELECTRIC MANUFACTURING CO., LTD.	FS40ET.16cCE	220-240V~ 50Hz, 50W, Class B
Alternative	GMERIT ELECTRIC MANUFACTURING CO., LTD.	DS40DE	220-240V~ 50Hz, 50W, Class B
Alternative	GMERIT ELECTRIC MANUFACTURING CO., LTD.	DS40CE	220-240V~ 50Hz, 50W, Class B
Motor (for model FT30A, FT30A1, FT30F, FT30G)	GMERIT ELECTRIC MANUFACTURING CO., LTD.	DT30DE	220-240V~ 50Hz, 40W, Class B
Alternative	GMERIT ELECTRIC MANUFACTURING CO., LTD.	DT30CE	220-240V~ 50Hz, 40W, Class B
Motor (for model FT23A, FT23A1, FT23F)	GMERIT ELECTRIC MANUFACTURING CO., LTD.	DT23DE	220-240V~ 50Hz, 30W, Class B
Alternative	GMERIT ELECTRIC MANUFACTURING CO., LTD.	DT23CE	220-240V~ 50Hz, 30W, Class B
Motor (for model FT15A, FT15A2, FW15A, FTW15A)	GMERIT ELECTRIC MANUFACTURING CO., LTD.	DT15CE	220-240V~50Hz, 20W, Class B
Motor capacitor (for models with rated power 50W or FS40T PRO1, FT40A1, FS40ET1)	XUNDE ELECTRICAL AND ELECTRONIC CO.,LTD.	CBB61	400V/450V~; 1.2μF; 40/70/21; 40/85/21; S3
	Various	Various	
Motor capacitor (for model FT30A, FT30A1, FT30F, FT30G)	XUNDE ELECTRICAL AND ELECTRONIC CO.,LTD.	CBB61	400V/450V~ ,1μF; 40/70/21; 40/85/21; S3
	Various	Various	
NOTE			
"Various" means any type, from any manufacturer that complies with the "Technical data" can be used.			

## 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	Measured:0W for All models except FS40ET	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	Measured:0.24W for FS40ET	Pass
	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	Measured:0W for All models except FS40ET	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	Measured:0.24W for FS40ET	Pass
	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

Clause	Ecodesign requirements - GENERIC ECODESIGN REQUIREMENTS	Result - Remark	Verdict
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
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: <ul style="list-style-type: none"> <li>— standby mode, or</li> <li>— off mode, or</li> <li>— 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.</li> </ul>		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

### For FT15A

Sensor #	Radius of circle	Velocity [m/min]				Average Vel.	Circle area [m <sup>2</sup> ]	Airflow [m <sup>3</sup> /min]
		Left	Right	Up	down			
1	20	95.41	113.39	109.91	90.72	-	-	-
2	60	93.03	108.11	93.82	87.53	98.99	0.0101	1.00
3	100	99.86	81.68	50.85	83.62	87.31	0.0201	1.76
4	140	76.53	62.46	1.6	41.41	62.25	0.0302	1.88
5	180	39.72	46.22	0.53	11.53	35.00	0.0402	1.41
6	220	19.71	33.94	0.28	1.05	19.12	0.0503	0.00
Total air flow [m <sup>3</sup> /min]:								6.04
Maximum velocity [m/min]:								98.99
Power input [W]:								10.76

### For FT23A

Sensor #	Radius of circle	Velocity [m/min]				Average Vel.	Circle area [m <sup>2</sup> ]	Airflow [m <sup>3</sup> /min]
		Left	Right	Up	down			
1	20	117.79	124.96	130.01	123.16	-	-	-
2	60	137.74	127	152.09	140.95	131.71	0.0101	1.32
3	100	122.36	112.19	133.05	147.56	134.12	0.0201	2.70
4	140	95.34	81.5	99.12	131.45	115.32	0.0302	3.48
5	180	68.16	53.68	75.14	85.07	86.18	0.0402	3.47
6	220	41.87	30.18	60.3	74.3	61.09	0.0503	3.07
7	260	24.77	21.85	24.54	39.47	39.66	0.0603	2.39
8	300	5.33	3.88	20.67	28.11	21.08	0.0704	0.00
Total air flow [m <sup>3</sup> /min]:								16.43
Maximum velocity [m/min]:								134.12
Power input [W]:								20.70

**For FT30A**

Sensor #	Radius of circle	Velocity [m/min]				Average Vel.	Circle area [m <sup>2</sup> ]	Airflow [m <sup>3</sup> /min]
		Left	Right	Up	down			
1	20	128.12	119.94	118.9	130.62	-	-	-
2	60	147.03	133.48	127.91	147.72	131.72	0.0101	1.32
3	100	160.15	146.51	131.4	132.88	140.89	0.0201	2.83
4	140	157.32	130.4	132.81	94.94	135.80	0.0302	4.10
5	180	142.67	130.79	109.4	66.34	120.58	0.0402	4.85
6	220	109.32	117.24	75.52	46.48	99.72	0.0503	5.01
7	260	89.96	101.22	62.99	29.52	79.03	0.0603	4.77
8	300	65.31	78.21	47.29	20.44	61.87	0.0704	4.35
9	340	41.74	59.32	25.96	18.32	44.57	0.0804	3.58
10	380	30.61	46.01	20.86	7.32	31.27	0.0905	2.83
11	420	23.04	31.77	9.84	1.56	21.38	0.1005	0.00
Total air flow [m <sup>3</sup> /min]:								33.65
Maximum velocity [m/min]:								140.89
Power input [W]:								33.90

**For FT40A**

Sensor #	Radius of circle	Velocity [m/min]				Average Vel.	Circle area [m <sup>2</sup> ]	Airflow [m <sup>3</sup> /min]
		Left	Right	Up	down			
1	20	139.32	130.05	140.39	129.33	-	-	-
2	60	123.92	132.94	138.61	108.03	130.32	0.0101	1.31
3	100	140.93	163.01	118.09	133.09	132.33	0.0201	2.66
4	140	124.46	145.76	99.48	126.17	131.37	0.0302	3.96
5	180	119.6	124.09	81.32	121.21	117.76	0.0402	4.74
6	220	107.37	130.64	60.14	102.53	105.86	0.0503	5.32
7	260	95.41	99.8	50.06	83.82	91.22	0.0603	5.50
8	300	85.46	73.17	33.39	70.78	73.99	0.0704	5.21
9	340	79.96	64.73	27.95	55.58	61.38	0.0804	4.94
10	380	58.13	56.45	18.38	43.66	50.61	0.0905	4.58
11	420	40.41	45.7	8.33	39.01	38.76	0.1005	3.90
12	460	32.68	38.8	1.05	25.1	28.89	0.1106	3.19
13	500	25.01	13.55	0.53	16.35	19.13	0.1206	0.00
Total air flow [m <sup>3</sup> /min]:								45.30
Maximum velocity [m/min]:								132.33
Power input [W]:								40.20

**For FS40ET**

Sensor #	Radius of circle	Velocity [m/min]				Average Vel.	Circle area [m <sup>2</sup> ]	Airflow [m <sup>3</sup> /min]
		Left	Right	Up	down			
1	20	157.97	169.03	136.17	142.47	-	-	-
2	60	168.17	153.53	132.44	145.42	150.65	0.0101	1.51
3	100	148.78	125.71	140.78	116.93	141.47	0.0201	2.84
4	140	132.61	121.41	129.41	106.87	127.81	0.0302	3.85
5	180	103.96	92.47	114.36	96.82	112.24	0.0402	4.51
6	220	96.73	66.79	104.71	72.08	93.49	0.0503	4.70
7	260	80.74	55.01	95.27	60.49	78.98	0.0603	4.76
8	300	72.37	48.13	65.99	55.44	66.68	0.0704	4.69
9	340	52.21	34.41	79.89	40.35	56.10	0.0804	4.51
10	380	43.03	26.96	88.94	35.09	50.11	0.0905	4.53
11	420	32.98	18.11	61.3	26.3	41.59	0.1005	4.18
12	460	20.24	26.48	38.32	10.23	29.25	0.1106	3.23
Total air flow [m <sup>3</sup> /min]:								43.34
Maximum velocity [m/min]:								150.65
Power input [W]:								39.40

**For FS40T**

Sensor #	Radius of circle	Velocity [m/min]				Average Vel.	Circle area [m <sup>2</sup> ]	Airflow [m <sup>3</sup> /min]
		Left	Right	Up	down			
1	20	131.3	131.8	129.77	134.21	-	-	-
2	60	134.64	134.72	133.03	159.7	136.15	0.0101	1.37
3	100	127.68	128.24	130.17	143.09	136.41	0.0201	2.74
4	140	147.77	138.71	125.11	133.28	134.26	0.0302	4.05
5	180	120.02	110.48	117.87	117.04	126.29	0.0402	5.08
6	220	102.71	97.39	107	90.77	107.91	0.0503	5.42
7	260	94.38	72.22	75.92	78.65	89.88	0.0603	5.42
8	300	85.38	51.48	63.46	66.8	73.54	0.0704	5.17
9	340	64.18	48.37	52.45	51.42	60.44	0.0804	4.86
10	380	45.75	31.27	40.88	29.69	45.50	0.0905	4.12
11	420	32.77	24.89	28.81	22.78	32.11	0.1005	3.23
12	460	21.86	12.17	12.42	18.64	21.79	0.1106	0.00
Total air flow [m <sup>3</sup> /min]:								41.46
Maximum velocity [m/min]:								136.41
Power input [W]:								39.40



## Sound power test

### For FT15A

Item	Unit	Value								
Method	--	Parallelepiped measurement surface								
a	mm	1095								
b	mm	1100								
c	mm	1285								
S	m <sup>2</sup>	16.10								
Test setting	-	High speed								
Test voltage	V	230.1								
Test frequency	Hz	50.0								
Ambient temperature	°C	23.4								
Relative humidity	%	62.6								
Background noise level	dB	16.7								
Microphone	--	1	2	3	4	5	6	7	8	9
L <sub>pi</sub> (Average)	dB	38.81	30.74	37.01	30.25	31.89	29.53	29.77	30.71	30.60
10 <sup>0.1</sup> L <sub>pi</sub>	--	7603	1186	5023	1059	1545	897	948	1178	1148
Time-averaged sound pressure level	dB(A)	33.6								
K1	dB	0.090								
K2	dB	0.0								
Surface time-averaged sound pressure level	dB(A)	33.5								
Sound power level	dB(A)	45.6								

**For FT23A**

Item	Unit	Value								
Method	--	Parallelepiped measurement surface								
a	mm	1103								
b	mm	1135								
c	mm	1385								
S	m <sup>2</sup>	17.40								
Test setting	-	High speed								
Test voltage	V	230.1								
Test frequency	Hz	50.0								
Ambient temperature	°C	23.4								
Relative humidity	%	62.6								
Background noise level	dB	19.7								
Microphone	--	1	2	3	4	5	6	7	8	9
L <sub>pi</sub> (Average)	dB	46.72	42.69	45.10	41.85	40.64	38.45	39.33	40.20	39.73
10 <sup>0.1</sup> L <sub>pi</sub>	--	46989	18578	32359	15311	11588	6998	8570	10471	9397
Time-averaged sound pressure level	dB(A)	42.5								
K1	dB	0.023								
K2	dB	0.0								
Surface time-averaged sound pressure level	dB(A)	42.5								
Sound power level	dB(A)	54.9								

**For FT30A**

Item	Unit	Value								
Method	--	Parallelepiped measurement surface								
a	mm	1128								
b	mm	1173								
c	mm	1490								
S	m <sup>2</sup>	19.00								
Test setting	-	High speed								
Test voltage	V	230.1								
Test frequency	Hz	50.0								
Ambient temperature	°C	23.4								
Relative humidity	%	62.6								
Background noise level	dB	19.7								
Microphone	--	1	2	3	4	5	6	7	8	9
L <sub>pi</sub> (Average)	dB	43.69	39.13	42.38	37.88	37.07	35.70	36.11	37.06	35.19
10 <sup>0.1</sup> L <sub>pi</sub>	--	23388	8185	17298	6138	5093	3715	4083	5082	3304
Time-averaged sound pressure level	dB(A)	39.3								
K1	dB	0.048								
K2	dB	0.0								
Surface time-averaged sound pressure level	dB(A)	39.2								
Sound power level	dB(A)	52.0								

**For FT40A**

Item	Unit	Value								
Method	--	Parallelepiped measurement surface								
a	mm	1128								
b	mm	1208								
c	mm	1540								
S	m <sup>2</sup>	19.83								
Test setting	-	High speed								
Test voltage	V	230.1								
Test frequency	Hz	50.0								
Ambient temperature	°C	23.4								
Relative humidity	%	62.6								
Background noise level	dB	19.7								
Microphone	--	1	2	3	4	5	6	7	8	9
L <sub>pi</sub> (Average)	dB	44.49	40.14	43.62	38.65	38.62	36.62	37.12	37.30	36.00
10 <sup>0.1</sup> L <sub>pi</sub>	--	28119	10328	23014	7328	7278	4592	5152	5370	3981
Time-averaged sound pressure level	dB(A)	40.2								
K1	dB	0.038								
K2	dB	0.0								
Surface time-averaged sound pressure level	dB(A)	40.2								
Sound power level	dB(A)	53.2								

**For FS40ET**

Item	Unit	Value								
Method	--	Parallelepiped measurement surface								
a	mm	1198								
b	mm	1205								
c	mm	2285								
S	m <sup>2</sup>	27.73								
Test setting	-	High speed								
Test voltage	V	230.1								
Test frequency	Hz	50.0								
Ambient temperature	°C	23.4								
Relative humidity	%	62.6								
Background noise level	dB	19.7								
Microphone	--	1	2	3	4	5	6	7	8	9
L <sub>pi</sub> (Average)	dB	43.91	39.99	42.91	38.98	37.68	35.51	36.16	36.54	35.38
10 <sup>0.1</sup> L <sub>pi</sub>	--	24604	9977	19543	7907	5861	3556	4130	4508	3451
Time-averaged sound pressure level	dB(A)	39.7								
K1	dB	0.044								
K2	dB	0.0								
Surface time-averaged sound pressure level	dB(A)	39.6								
Sound power level	dB(A)	54.1								

**For FS40T**

Item	Unit	Value								
Method	--	Parallelepiped measurement surface								
a	mm	1310								
b	mm	1310								
c	mm	2230								
S	m <sup>2</sup>	30.23								
Test setting	-	High speed								
Test voltage	V	230.1								
Test frequency	Hz	50.0								
Ambient temperature	°C	23.4								
Relative humidity	%	62.6								
Background noise level	dB	16.7								
Microphone	--	1	2	3	4	5	6	7	8	9
L <sub>pi</sub> (Average)	dB	41.11	36.82	40.39	37.03	35.90	32.80	34.22	33.66	32.09
10 <sup>0.1</sup> L <sub>pi</sub>	--	12912	4808	10940	5047	3890	1905	2642	2323	1618
Time-averaged sound pressure level	dB(A)	37.1								
K1	dB	0.040								
K2	dB	0.0								
Surface time-averaged sound pressure level	dB(A)	37.1								
Sound power level	dB(A)	51.9								

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:

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

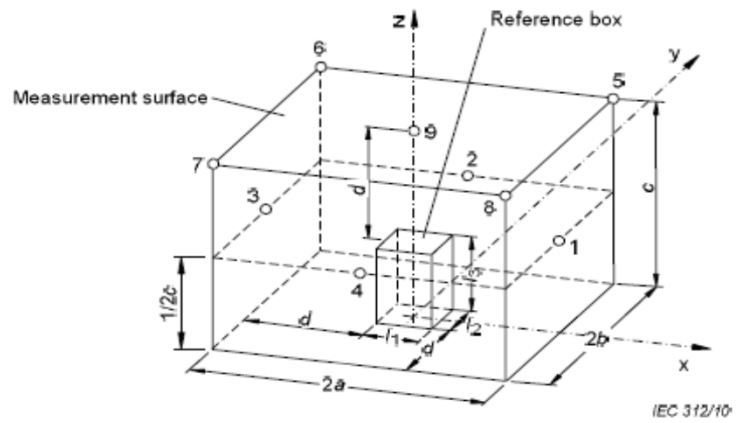


Figure 1 – Measurement surface – parallelepiped – with key microphone positions, for floor free-standing appliances

## Conclusion

### For FT15A

Item	Symbol	Unit	Tested	Rated
Maximum fan flow rate	$F$	$m^3/min$	6.0	-
Fan power input	$P$	$W$	10.8	-
Service value	$SV$	$(m^3/min)/W$	0.6	-
Standby power consumption	$P_{SB}$	$W$	N/A	-
Seasonal electricity consumption	$Q$	$kWh/a$	3.4	-
Fan sound power level	$L_{WA}$	$dB(A)$	45.57	-
Maximum air velocity	$c$	$meters/sec$	1.6	-

### For FT23A

Item	Symbol	Unit	Tested	Rated
Maximum fan flow rate	$F$	$m^3/min$	16.4	-
Fan power input	$P$	$W$	20.7	-
Service value	$SV$	$(m^3/min)/W$	0.8	-
Standby power consumption	$P_{SB}$	$W$	N/A	-
Seasonal electricity consumption	$Q$	$kWh/a$	6.6	-
Fan sound power level	$L_{WA}$	$dB(A)$	54.89	-
Maximum air velocity	$c$	$meters/sec$	2.2	-

### For FT30A

Item	Symbol	Unit	Tested	Rated
Maximum fan flow rate	$F$	$m^3/min$	33.6	-
Fan power input	$P$	$W$	33.9	-
Service value	$SV$	$(m^3/min)/W$	1.0	-
Standby power consumption	$P_{SB}$	$W$	N/A	-
Seasonal electricity consumption	$Q$	$kWh/a$	10.8	-
Fan sound power level	$L_{WA}$	$dB(A)$	52.02	-
Maximum air velocity	$c$	$meters/sec$	2.3	-

### For FT40A

Item	Symbol	Unit	Tested	Rated
Maximum fan flow rate	$F$	$m^3/min$	45.3	-
Fan power input	$P$	$W$	40.2	-
Service value	$SV$	$(m^3/min)/W$	1.1	-
Standby power consumption	$P_{SB}$	$W$	N/A	-
Seasonal electricity consumption	$Q$	$kWh/a$	12.9	-
Fan sound power level	$L_{WA}$	$dB(A)$	53.18	-
Maximum air velocity	$c$	$meters/sec$	2.2	-



**For FS40ET**

Item	Symbol	Unit	Tested	Rated
Maximum fan flow rate	<i>F</i>	$m^3/min$	43.3	-
Fan power input	<i>P</i>	<i>W</i>	39.4	-
Service value	<i>SV</i>	$(m^3/min)/W$	1.1	-
Standby power consumption	<i>P<sub>SB</sub></i>	<i>W</i>	0.2	-
Seasonal electricity consumption	<i>Q</i>	<i>kWh/a</i>	12.9	-
Fan sound power level	<i>L<sub>WA</sub></i>	<i>dB(A)</i>	54.06	-
Maximum air velocity	<i>c</i>	<i>meters/sec</i>	2.5	-

**For FS40T**

Item	Symbol	Unit	Tested	Rated
Maximum fan flow rate	<i>F</i>	$m^3/min$	41.5	-
Fan power input	<i>P</i>	<i>W</i>	39.4	-
Service value	<i>SV</i>	$(m^3/min)/W$	1.1	-
Standby power consumption	<i>P<sub>SB</sub></i>	<i>W</i>	N/A	-
Seasonal electricity consumption	<i>Q</i>	<i>kWh/a</i>	12.6	-
Fan sound power level	<i>L<sub>WA</sub></i>	<i>dB(A)</i>	51.86	-
Maximum air velocity	<i>c</i>	<i>meters/sec</i>	2.3	-

