
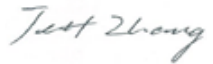




TEST REPORT

**BUREAU
VERITAS**

ENERGY EFFICIENCY - ELECTRIC FAN

| | |
|---|--|
| Report Number: | BAHO-EGZ-P24070640 |
| Date of Issue: | 12-Aug-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: | GMERIT HOLDINGS LTD The 1st of No.7, West Road, Xintang Section, Shilong Avenue, Xintang Village, Lunjiao Street, Shunde District, Foshan City, Guangdong Province, P. R. China |
| Manufacturing Site/Address: | Same as the applicant |
| Testing Location/Address: | Guangzhou Customs District Technology Center No.3, Desheng East Road, Shunde Daliang, Foshan, Guangdong, China |
| Product: | Electric fan |
| Trade Mark: | N/A |
| Model(s): | 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 |
| Model Similarity: | All models have identical internal construction. Model differences are as model list and description. |
| Ratings: | 220-240V~, 50Hz, Class II, IPX0; Ref. to model list for rating power |
| Date of Sample(s) Received: | 27-Jun-2021 |
| Date of Test Started: | 27-Jun-2021 |
| Date of Test Finished: | 22-Jul-2021 |
| 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  |

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 | Rotary button | |
| | FT30F, FT30G | 40W | | |
| 16 inch table fan | FT40A | 50W | Push-button | |
| | FT40A1 | 45W | Rotary button | |
| | FT40F, FT40G | 50W | | |
| 16 inch pedestal fan | FS40C, FS40T, FS40T PRO | 50W | Push-button | |
| | FS40T PRO1 | 45W | Rotary button | |
| | FS40D, FS40F, FS40G | 50W | | |
| | FS40ET | 50W | Control panel | |
| | FS40ET1 | 45W | | Yes |

- 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 for 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 |
| 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: <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 | | 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 ²] | Airflow [m ³ /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 ³ /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 ²] | Airflow [m ³ /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 ³ /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 ²] | Airflow [m ³ /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 ³ /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 ²] | Airflow [m ³ /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 ³ /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 ²] | Airflow [m ³ /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 ³ /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 ²] | Airflow [m ³ /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 ³ /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 ² | 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 _{pi} (Average) | dB | 38.81 | 30.74 | 37.01 | 30.25 | 31.89 | 29.53 | 29.77 | 30.71 | 30.60 | |
| 10 ^{0.1} L _{pi} | -- | 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 ² | 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 _{pi} (Average) | dB | 46.72 | 42.69 | 45.10 | 41.85 | 40.64 | 38.45 | 39.33 | 40.20 | 39.73 | |
| 10 ^{-0.1} L _{pi} | -- | 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 ² | 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 _{pi} (Average) | dB | 43.69 | 39.13 | 42.38 | 37.88 | 37.07 | 35.70 | 36.11 | 37.06 | 35.19 | |
| 10 ^{-0.1} L _{pi} | -- | 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 ² | 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 _{pi} (Average) | dB | 44.49 | 40.14 | 43.62 | 38.65 | 38.62 | 36.62 | 37.12 | 37.30 | 36.00 | |
| 10 ^{-0.1} L _{pi} | -- | 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 ² | 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 _{pi} (Average) | dB | 43.91 | 39.99 | 42.91 | 38.98 | 37.68 | 35.51 | 36.16 | 36.54 | 35.38 | |
| 10 ^{-0.1} L _{pi} | -- | 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 ² | 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 _{pi} (Average) | dB | 41.11 | 36.82 | 40.39 | 37.03 | 35.90 | 32.80 | 34.22 | 33.66 | 32.09 | |
| 10 ^{-0.1} L _{pi} | -- | 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:

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

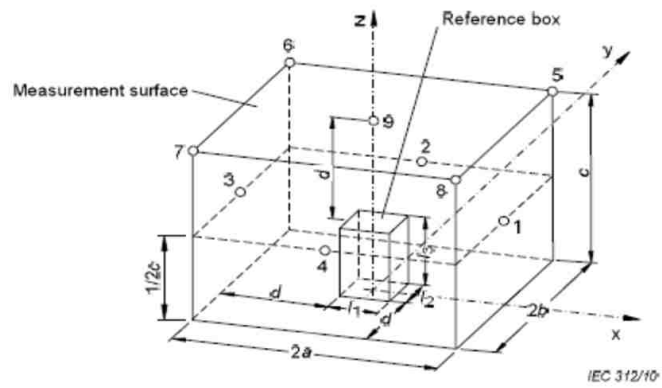


Figure 1 – Measurement surface – parallelepiped – with key microphone positions, for floor free-standing appliances

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 | P_{SB} | <i>W</i> | 0.2 | - |
| Seasonal electricity consumption | <i>Q</i> | kWh/a | 12.9 | - |
| Fan sound power level | L_{WA} | $dB(A)$ | 54.06 | - |
| Maximum air velocity | <i>c</i> | $meters/sec$ | 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 | P_{SB} | <i>W</i> | N/A | - |
| Seasonal electricity consumption | <i>Q</i> | kWh/a | 12.6 | - |
| Fan sound power level | L_{WA} | $dB(A)$ | 51.86 | - |
| Maximum air velocity | <i>c</i> | $meters/sec$ | 2.3 | - |

