

TEST REPORT

ENERGY EFFICIENCY - LARGE AIR CONDITIONER

Report Number: BXH-EGZ-P22060461-1

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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: Qingdao Hisense Hitachi Air-conditioning Systems Co., Ltd.

No.218, Qianwangang Road, Economic and Technological Development

Zone, Qingdao, China

Manufacturing Site/Address: Same as the applicant

Testing Location/Address: Same as the applicant

Product: VRF AIR-CONDITIONER(HEAT PUMP)

Trade Mark: Hisense

Model(s): Outdoor unit:AVW-41HJFHH1

Model Similarity: N/A

Ratings: 220-240V~ 50/60Hz

Date of Sample(s) Received:4-May-2022Date of Test Started:4-May-2022Date of Test Finished:11-May-2022

Standard(s)/Regulation(s): (EU) 2016/2281

EN 14825:2018

EN 14511-1,2,3,4:2018

Conclusion: The product tested complies with the ErP requirements.

Prepared by (name, function, Henry DENG signature): Engineer

Approved by (name, function, Jeff ZHANG

signature): Performance Manager

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Photos:

1. Nameplate of indoor side showing model number and serial number (if applicable)

| HISENSE MULTI-SPLIT 4-WAY CASSETTE TYPE AIR CONDITIONER | | | | | | | | |
|---|-----------------------|------------------------------|--|--|--|--|--|--|
| MODEL AVC-10UX | CSFBXU | | | | | | | |
| RATED POWER SUPPLY | 220-240 V ~50/60 Hz | REFRIGERANT (R410A) | 0 kg | | | | | |
| COOLING CAPACITY | 3.0 kW 10200 Btu/h | NET WEIGHT | 21 kg | | | | | |
| HEATING CAPACITY | 3.5 kW 12000 Btu/h | AIR FLOW RATE | 780 m³/h | | | | | |
| COOLING STANDARD INPUT | 0.04 kW | DESIGN PRESSURE(HI./LO.) | 4.15 / 2.21 MPa | | | | | |
| HEATING STANDARD INPUT | 0.04 kW | STANDARD COOLING CONDITION | INDOOR℃ 27 DB 19 WB OUTDOOR℃ 35 DB - WB | | | | | |
| COOLING STANDARD CURRENT | 0.4 A | STANDARD HEATING CONDITION | INDOOR℃ 20 DB - WB OUTDOOR℃ 7 DB 6 WB | | | | | |
| HEATING STANDARD CURRENT | 0.4 A | COOLING RATED. 0.5 A 0.05 kW | INDOOR℃ - DB - WB OUTDOOR℃ - DB - WB | | | | | |
| ANTI-ELECTRIC SHOCK | CLASSI | HEATING RATED. 0.5 A | INDOOR℃ - DB - WB OUTDOOR℃ - DB - WB | | | | | |
| DEGREES OF PROTECTION | IPX0 | SERIAL NO. | | | | | | |
| | | MANUFACTURE DATE | | | | | | |



Qingdao Hisense Hitachi Air-conditioning Systems Co., Ltd.

No. 218, Qianwangang Road, Economic and Technological

Development Zone, Qingdao, China

/ 1KHN0501000300 / H7D14762B / MADE IN CHINA

2. Nameplate of outdoor side showing model number and serial number (if applicable)

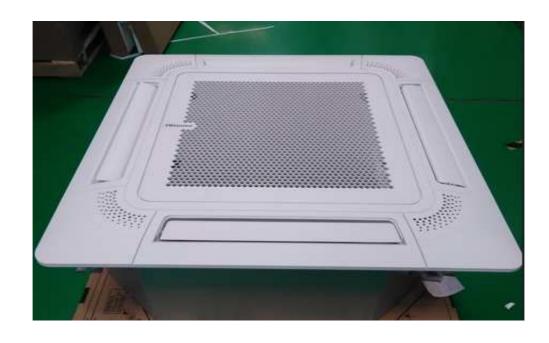
HISENSE VRF AIR-CONDITIONER (HEAT PUMP) MODEL AVW-41HJFHH1 RATED POWER SUPPLY 220-240 V ~ 50/60 Hz REFRIGERANT (R410A 4.0 kg 12.1 kW 41500 Btu/h COOLING CAPACITY **NET WEIGHT** 88 kg 14.0 kW AIR FLOW RATE HEATING CAPACITY 4260 m³/h 48000 Btu/h DESIGN PRESSURE(HI./LO.) COOLING STANDARD INPUT 2.80 kW 4.15 / 2.21 MPa 27 DB 19 WB INDOOR℃ HEATING STANDARD INPUT 3.18 kW STANDARD COOLING CONDITION OUTDOOR °C 35 DB · **20** DB INDOOR*C 12.9 A COOLING STANDARD CURRENT STANDARD HEATING CONDITION 7 DB 6 WB OUTDOOR °C INDOOR℃ 27.0 A 35 DB 24 WB COOLING RATED. 5.94 kW HEATING STANDARD CURRENT 14.6 A OUTDOOR °C 37 DB -HEATING RATED. 27.0 A 5.94 kW **15** DB INDOOR℃ WB ANTI-ELECTRIC SHOCK **CLASS I** OUTDOOR °C 11 DB 7.5 WB IPX4 SERIAL NO. QSH63WATM001 DEGREES OF PROTECTION MANUFACTURE DATE 2022-04-13



Qingdao Hisense Hitachi Air-conditioning Systems Co., Ltd.
218, Qianwangang Road, Economic & Technical
Development Zone, Qingdao, P.R. China

/ 1KHW0204100000 / H7D22297A / MADE IN CHINA

3. Indoor side (including accessaries if applicable)



4. Outdoor side (including accessaries if applicable)



| 5. Additional photos (if necessary) | |
|-------------------------------------|------|
| | |
| | NONE |
| | |

Product Details

| Item | Data |
|---|------------------------------|
| Model Number of Unit Under Tested | Outdoor unit:AVW-41HJFHH1 |
| | Indoor units:AVC-10UXCSFBXU, |
| | 4 units |
| Serial Number | N/A |
| Condition of Sample(s) | Production |
| Air Conditioner Type | Double/Multi Split |
| Power Supply (Single Phase/Three Phase/DC) | Single phase |
| Rated Voltage [V] | 220-240 |
| Rated Frequency [Hz] | 50/60 |
| Refrigerant | R410A |
| Charge of the Refrigerant [g] | 4000 |
| Air Distribution of Indoor Side | Non ducted |
| Indoor side heat exchanger | Air |
| Outdoor side heat exchanger | Air |
| Air Conditioner Mode | Reversible |
| Unit Mounting (applicable to non ducted split system) | Cassette |
| Capacity Control | Variable |
| Rated Cooling Power @T1 [W] | 2800 |
| Rated Cooling Capacity @T1 [W] | 12100 |
| Rated EER @T1 [W/W] | 4.32 |
| Rated Heating Power @H1 [W] | 3180 |
| Rated Heating Capacity @H1 [W] | 14000 |
| Rated COP @H1 [W/W] | 4.40 |
| Dimensions (for split systems only dimensions of the indoor unit, | For outdoor unit:950*990*320 |
| Width [mm]*Height [mm]*Length [mm] | For indoor units:840*238*840 |

Critical Components

| Name | Manufacturer / Trademark | Type / Model | Technical data |
|-------------------|---|-------------------|--|
| Compressor | MITSUBISHI ELECTRIC (GUANGZHOU) COMPRESSOR CO., LTD. | MNB36FLAMC-L | DC 3Φ 39-328V, 30-360Hz, 3,58kW, 13,6A, R410A Synthetic insulation |
| Outdoor fan motor | Jiangsu ShangQi Group Co., Ltd. | ZWF-138K | DC280V, 138W, 8P, class E |
| Alternative | NIDEC SHIBAURA(Zhejiang) CORP | SIC-81FW-D8138-13 | DC280V, 138W, 10P, class E |
| Alternative | WOLONG ELECTRIC GROUP CO.,LTD | ZWB378D58A | DC280V, 135W, Class B |
| Alternative | Panasonic | EHTS20AQH | Dimension W [mm]*H [mm]*D [mm] (970+941)*756*18.19 /Finned tube volume: 0.0262m³ |

Ecodesign Requirements

| | n Requirements | | |
|--------|--|----------------------|---------|
| Clause | Ecodesign requirements | Result - Remark | Verdict |
| 1 | Seasonal space heating energy efficiency of air heating | ng products | |
| (a) | From 1 January 2018, the seasonal space heating | (see appended table) | Pass |
| | energy efficiency of air heating products shall not fall | | |
| | below the values in Table 1 | | |
| | | | |
| | For multi-split heat pumps, the manufacturer shall | | Pass |
| | establish conformity with this regulation based on | | 1 400 |
| | measurements and calculations according to Annex | | |
| | III. | | |
| | For each model of outdoor side unit, a list of | | Pass |
| | · · | | 1 455 |
| | recommended combinations with compatible indoor | | |
| | side units shall be included in the technical | | |
| | documentation. | | |
| | The declaration of conformity shall then apply to all | | Pass |
| | combinations mentioned in this list. | | |
| | The list of recommended combinations shall be made | | Pass |
| | available prior to the purchase/lease/hire of an | | |
| | outdoor side unit. | | |
| (b) | From 1 January 2021, the seasonal space heating | (see appended table) | Pass |
| | energy efficiency of air heating products shall not fall | | |
| | below the values in Table 2 | | |
| | | | |
| | For multi-split heat pumps the manufacturer shall | | Pass |
| | establish conformity with this regulation based on | | |
| | measurements and calculations according to Annex | | |
| | III. | | |
| | For each model of outdoor side unit, a list of | | Pass |
| | recommended combinations with compatible indoor | | |
| | side units shall be included in the technical | | |
| | documentation. | | |
| | The declaration of conformity shall then apply to all | | Pass |
| | combinations mentioned in this list. | | 1 455 |
| | The list of recommended combinations shall be made | 7 | Pass |
| | available prior to the purchase/lease/hire of an | 1 | 1 455 |
| | outdoor side unit. | | |
| 2 | Seasonal space cooling energy efficiency of cooling p | roducte. | |
| (a) | From 1 January 2018, the seasonal space cooling | (see appended table) | Pass |
| (a) | energy efficiency of cooling products shall not fall | (see appended table) | Fass |
| | below the values in Table 3 | | |
| | | | Door |
| | For multi-split air conditioners the manufacturer shall | | Pass |
| | establish conformity with this regulation based on | | |
| | measurements and calculations according to Annex | | |
| | | | + |
| | For each model of outdoor side unit, a list of | | Pass |
| | recommended combinations with compatible indoor | | |
| | side units shall be included in the technical | | |
| | documentation. | | |
| | The declaration of conformity shall then apply to all | | Pass |
| | combinations mentioned in this list. | | |
| | The list of recommended combinations shall be made | | Pass |
| | available prior to the purchase/lease/hire of an | | |
| | outdoor side unit. | | |
| (b) | From 1 January 2021, the seasonal space cooling | (see appended table) | Pass |
| | energy efficiency of cooling products shall not fall | , | |
| | below the values in Table 4 | | |
| | | 1 | - |

| Clause | Ecodesign requirements | Result - Remark | Verdict |
|--------|---|-----------------------|-------------|
| | For multi-split air conditioners the manufacturer shall | | Pass |
| | establish conformity with this regulation based on | | |
| | measurements and calculations according to Annex | | |
| | III. | | |
| | For each model of outdoor side unit, a list of | | Pass |
| | recommended combinations with compatible indoor | | |
| | side units shall be included in the technical | | |
| | documentation. | | |
| | The declaration of conformity shall then apply to all | | Pass |
| | combinations mentioned in this list. | | |
| | The list of recommended combinations shall be made | | |
| | available prior to the purchase/lease/hire of an | | |
| | outdoor side unit. | | |
| 3 | Seasonal energy performance ratio of high temperatur | e process chillers | |
| (a) | | (see appended table) | Pass |
| () | performance ratio of high temperature process | (, | |
| | chillers shall not fall below the values in Table 5 | | |
| | | | |
| (b) | From 1 January 2021, the seasonal energy | (see appended table) | Pass |
| (3) | performance ratio of high temperature process | (555 appointed table) | . 455 |
| | chillers shall not fall below the values in Table 6 | | |
| | ormicro origin flot fall bolow the values in rable o | | |
| 4 | Emissions of nitrogen oxides | | |
| (a) | From 26 September 2018, the emissions of nitrogen | | N/A |
| (a) | oxides, expressed in nitrogen dioxide, of warm air | | IN/A |
| | | | |
| | heaters, heat pumps, comfort chillers and air conditioners shall not exceed values in Table 7 | | |
| | conditioners shall not exceed values in Table 7 | | |
| (b) | From 1 January 2021, the emissions of nitrogen | | N/A |
| (D) | | | IN/A |
| | oxides, expressed in nitrogen dioxide, of warm air | | |
| | heaters shall not exceed values in Table 8 | | |
| 5 | Product information | | |
| (a) | From 1 January 2018, the instruction manuals for | | Pass |
| (a) | installers and end-users, and free access websites of | | 1 433 |
| | manufacturers, their authorised representatives and | | |
| | · | | |
| | importers shall provide the following product | | |
| (4) | information | | NI/A |
| (1) | for warm air heaters, the information set out in Table | | N/A |
| | 9 of this Annex, measured and calculated in | | |
| (0) | accordance with Annex III | | NI/A |
| (2) | for comfort chillers, the information set out in Table | | N/A |
| | 10 of this Annex, measured and calculated in | | |
| (0) | accordance with Annex III | | + - |
| (3) | for air-to-air air conditioners, the information set out in | | Pass |
| | Table 11 of this Annex, measured and calculated in | | |
| | accordance with Annex III | | |
| (4) | for water/brine-to-air air conditioners, the information | | N/A |
| | set out in Table 12 of this Annex, measured and | | |
| | calculated in accordance with Annex III | | |
| | | | |
| (5) | for fan coil units, the information set out in Table 13 | | N/A |
| | of this Annex, measured and calculated in | | |
| | accordance with Annex III | | |
| (6) | for heat pumps, the information set out in Table 14 of | | Pass |
| 1 | | | ĺ |
| | this Annex, measured and calculated in accordance | | |

| Clause | Ecodesign requirements | Result - Remark | Verdict |
|--------|--|-----------------|---------|
| (7) | for high temperature process chillers, the information set out in Table 15 of this Annex, measured and calculated in accordance with Annex III | | N/A |
| (8) | any specific precautions that must be taken when the product is assembled, installed or maintained | | Pass |
| (9) | for heat generators or cold generators designed for air heating or cooling products, and air heating or cooling product housings to be equipped with such heat or cold generators, their characteristics, the requirements for assembly, to ensure compliance with the ecodesign requirements for air heating or cooling products and, where appropriate, the list of combinations recommended by the manufacturer | | |
| (10) | for multi-split heat pumps and multi-split air conditioners, a list of appropriate indoor units | | Pass |
| (11) | for B1, C2 and C4 warm air heaters the following standard text: 'This warm air heater is intended to be connected only to a flue shared between multiple dwellings in existing buildings. Due to a lower efficiency, any other use of this warm air heater shall be avoided and would result in higher energy consumption and higher operating costs' | | N/A |
| (b) | From 1 January 2018, the instruction manuals for installers and end-users, and a part for professionals of the free-access websites of manufacturers, their authorised representatives and importers shall provide the following product information | | Pass |
| (1) | information relevant for disassembly, recycling and/or disposal at end-of-life | | Pass |
| (c) | The technical documentation for the purposes of conformity assessment pursuant to Article 4 shall contain the following elements | | Pass |
| (1) | the elements specified in point (a) | | Pass |
| (2) | where the information relating to a specific model has been obtained by calculation on the basis of design, and/or extrapolation from other combinations, the technical documentation shall 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, and a list of any other models where the information included in the technical documentation was obtained on the same basis | | Pass |

| Clause | Ecodesign requirements | Result - Remark | Verdict |
|--------|--|-----------------|---------|
| (d) | The manufacturer, their authorised representatives and importers of comfort chillers, air-to-air and water/brine- to-air air conditioners, heat pumps and high temperature process chillers 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, SEPR/COP values, where applicable, and provide contact information for obtaining such information | | Pass |

Ecodesign Requirements

| Clause | 2018/1/1 | 2021/1/1 | Measured | Declared |
|---|----------|----------|----------|----------|
| Ciause | 2010/1/1 | 2021/1/1 | value | value |
| Air heating product - Warm air heater | 20 | 21 | | |
| using electricity | 30 | 31 | | |
| Air heating product - Air-to-air heat | | | | |
| pump, driven by an electric motor, | 133 | 137 | 187.2 | 186.8 |
| except rooftop heat pump | | | | |
| Air heating product - Rooftop heat pump | 115 | 125 | | |
| Air heating product - Air-to-air heat | | | | |
| pump, driven by an internal combustion | 120 | 130 | | |
| engine | | | | |
| Cooling product - Air-to-water chiller with | | | | |
| rated cooling capacity < 400 kW, when | 149 | 161 | | |
| driven by an electric motor | | | | |
| Cooling product - Air-to-water chiller with | | | | |
| rated cooling capacity ≥ 400 kW when | 161 | 179 | | |
| driven by an electric motor | | | | |
| Cooling product - Water/brine to-water | | | | |
| chiller with rated cooling capacity < 400 | 100 | 200 | | |
| kW when driven by an electric motor | 196 | 200 | | |
| | | | | |
| Cooling product - Water/brine to-water | | | | |
| chiller with ≥ 400 kW rated cooling | 227 | 252 | | |
| capacity < 1500 kW when driven by an | 227 | 252 | | |
| electric motor | | | | |
| Cooling product - Water/brine to-water | | | | |
| chiller with rated cooling capacity ≥ 1500 | 245 | 272 | | |
| kW when driven by an electric motor | 245 | 272 | | |
| | | | | |
| Cooling product - Air-to-water comfort | | | | |
| chiller, when driven by an internal | 144 | 154 | | |
| combustion engine | | | | |
| Cooling product - Air-to-air air | | | | |
| conditioner, driven by an electric motor, | 181 | 189 | 321.7 | 321.6 |
| except rooftop air conditioners | | | | |
| Cooling product - Rooftop air conditioner | 117 | 138 | | |
| | 11/ | 130 | | |
| Cooling product - Air-to-air air | | | | |
| conditioner, driven by an internal | 157 | 167 | | |
| combustion engine | | | | |
| Cooling product - Water/brine-to-air air | NA | NA | | |
| conditioner | 14/ (| 1 1/ 1 | | |
| High temperature process chiller - Air, | 4.5 | 5 | | |
| PA < 400 kW | 7.5 | , | | |
| High temperature process chiller - Air, | 5 | 5.5 | | |
| PA ≥ 400 kW | , | 5.5 | | |
| High temperature process chiller - | 6.5 | 7 | | |
| Water, PA < 400 kW | <u> </u> | , | | |
| High temperature process chiller - | 7.5 | 8 | | |
| Water, 400 kW ≤ PA < 1500 kW | 7.5 | 0 | | _ |
| High temperature process chiller - PA ≥ | 8 | 8.5 | | |
| 1500 kW | <u> </u> | 0.5 | | |
| Fan coil unit | NA | NA | | |

Information requirements for air-to-air conditioners

| iiiioiiiiatioii requi | II CIIICIII | s ioi a | 11-10-6 | all collattioners | | | | |
|--|----------------------|------------|---------|--|------------------|----------|--------------|--|
| Models | | | | See the | cover page | | | |
| Outdoor side heat exchan | ger of air co | nditioner | | Air | | | | |
| Indoor side heat exchange | er of air con | ditioner | | | Air | | | |
| Type | | | | Compressor driver | n vapour cor | npressio | า | |
| Driver of compressor | | | | | ric motor | | | |
| If the heater is equipped w | vith a supple | ementary | heater | | No | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | |
| Rated cooling capacity | P _{rated,c} | 12.1 | kW | Seasonal space cooling energy efficiency | ηs,c | 321.6 | % | |
| Declared capacity (*) for cooling, at indoor | | | | Declared energy efficiency | ratio (*), at | indoor | | |
| temperature 27(19) °C and | d outdoor te | mperatur | e Tj | temperature 27(19) °C and | | | e Tj | |
| Tj = 35 °C | Pdc | 11.5 | kW | Tj = 35 °C | EER _d | 4.1 | _ | |
| Tj = 30 °C | Pdc | 8.8 | kW | Tj = 30 °C | EER _d | 6.1 | _ | |
| Tj = 25 °C | Pdc | 6.0 | kW | Tj = 25 °C | EER _d | 9.2 | _ | |
| Tj = 20 °C | Pdc | 3.5 | kW | Tj = 20 °C | EER _d | 15.6 | _ | |
| Degradation co-efficient cooling (**) | Cdc | 0.25 | | | | | | |
| Power consumption in mo | des other th | nan active | mode/0 | Cooling | | | | |
| Off mode | P _{OFF} | 0.019 | kW | Crankcase heater mode | P _{CK} | 0 | kW | |
| Thermostat-off mode | P _{TO} | 0 | kW | Standby mode | P_{SB} | 0.019 | kW | |
| | | • | Othe | r items | | | • | |
| Capacity control | \ | /ariable | | Air flow rate, outdoor measured | | 4260 | m3/h | |
| Sound power level (indoor/outdoor) measured | LWA | -/67 | dB(A) | Global warming potential | GWP | 2088 | kgCO2 eq. | |

Information requirements for heat pumps

| Models | | | | See the cover page | | | | |
|---|--------------------|------------|---|---------------------------------|------------|-------------|--------|--|
| Outdoor side heat exchang | ger of air co | onditioner | | Air | | | | |
| Indoor side heat exchange | r of air con | ditioner | | Air | | | | |
| Туре | | | | Compressor driver | vapour co | mpressio | n | |
| Driver of compressor | | | | Electr | ic motor | | | |
| If the heater is equipped with a supplementary heater | | | | | No | | | |
| Heating, if reversible? | | | | | Υ | | | |
| Average (mandatory) | | | | | Υ | | | |
| Warmer (optional) | | | | 1 | V/A | | | |
| Colder (optional) | | | | 1 | V/A | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | |
| Rated heating | $P_{rated,h}$ | 14.0 | kW | Seasonal space heating | ηs,c | 186.8 | % | |
| capacity/Average | | | | energy efficiency | | | | |
| Declared heating capacity | for part loa | d at indoo | or | Declared coefficient of per | formance o | r gas utili | sation | |
| temperature 20 °C and outdoor temperature Tj | | | efficiency/auxiliary energy factor for part load at given | | | | | |
| | | | | outdoor temperatures Tj | | | | |
| Tj = -7 °C | Pdh | 7.9 | kW | Tj = -7 °C | COPd | 2.7 | | |
| Tj = 2 °C | Pdh | 4.7 | kW | Tj = 2 °C | COPd | 4.5 | _ | |
| Tj = 7 °C | Pdh | 3.0 | kW | Tj = 7 °C | COPd | 7.3 | _ | |
| Tj = 12 °C | Pdh | 2.2 | kW | Tj = 12 °C | COPd | 8.7 | _ | |
| Tj = bivalent temperature | Pdh | 7.9 | kW | Tj = bivalent temperature | COPd | 2.7 | _ | |
| Tj = operating limit | Pdh | 7.6 | kW | Tj = operating limit | COPd | 2.7 | _ | |
| Bivalent temperature | T_{biv} | -7 | °C | Operating limit | TOL | -10 | °C | |
| | | | | temperature | | | | |
| Degradation co-efficient | C_{dh} | 0.25 | _ | | | | | |
| heat pumps | | | | | | | | |
| Power consumption in mo | des other th | | | | | | | |
| Off mode | P_{OFF} | 0.021 | kW | Back-up heating capacity (*) | elbu | 0 | kW | |
| Thermostat-off mode | P _{TO} | 0.032 | kW | Type of energy input | | • | • | |
| Crankcase heater mode | P _{CK} | 0.010 | kW | Standby mode | P_{SB} | 0.021 | kW | |
| | | | Othe | r items | | | | |
| Capacity control | \ | /ariable | | Air flow rate, outdoor measured | | 4260 | m3/h | |
| Sound power level | LWA | -/67 | dB(A) | Global warming potential | GWP | 2088 | kgCO2 | |
| (indoor/outdoor) | | | ` ′ | | | | eq. | |
| measured | | | | | | | | |
| | | | | | | | | |

Cooling capacity test

| lane. | Lleit | Tost A | Toot D | Toot C | Tost D |
|--|-------|--------|--------|--------|--------|
| Item | Unit | Test A | Test B | Test C | Test D |
| Barometric pressure | kPa | 102.3 | 100.7 | 100.6 | 102.1 |
| Voltage | V | 230.7 | 229.6 | 230.5 | 230.7 |
| Frequency | Hz | 50 | 50 | 50 | 50 |
| Total current | Α | 12.976 | 6.734 | 3.023 | 1.073 |
| Total power input | W | 2796 | 1447 | 646 | 225 |
| Speed control setting of the fan speed | - | Turbo | Turbo | Turbo | Turbo |
| Rotational speed of the fan | r/min | - | - | - | - |
| External resistance to airflow | Pa | 0.7 | 0.2 | 0.5 | 0.8 |
| Dry-bulb temp. of air entering equipment, indoor side | °C | 26.95 | 26.98 | 27.09 | 27.01 |
| Wet-bulb temp. of air entering equipment, indoor side | °C | 19.07 | 19.04 | 18.93 | 19.08 |
| Dry-bulb temp. of air entering equipment, outdoor side | °C | 35 | 29.94 | 25.07 | 20.01 |
| Wet-bulb temp. of air entering equipment, outdoor side | °C | 24 | 24.02 | 18.01 | 15.01 |
| Data collection period | min | 35 | 35 | 35 | 35 |
| Total Cooling Capacity | W | 11519 | 8760 | 5970 | 3520 |
| Sensible cooling capacity | W | 10677 | 8521 | 5969 | 3508 |
| Latent cooling capacity | W | 842 | 239 | 1 | 12 |
| EER (Energy Efficiency Ratio) | W/W | 4.12 | 6.05 | 9.24 | 15.64 |

Heating/Average capacity test

| Item | Unit | Test A | Test B | Test C | Test D | Test E | Test F |
|--|-------|--------|--------|--------|--------|--------|----------------------------|
| | | (-7°C) | (2°C) | (7°C) | (12°C) | (TOL) | (T _{biv}) |
| Barometric pressure | kPa | 101.9 | 100.7 | 101.4 | 101.3 | 101.3 | 101.9 |
| Voltage | V | 229.9 | 229.5 | 229.4 | 229.1 | 229.2 | 229.9 |
| Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 |
| Total current | Α | 13.452 | 4.864 | 1.91 | 1.164 | 13.293 | 13.452 |
| Total power input | W | 2904 | 1055 | 408 | 247 | 2806 | 2904 |
| Speed control setting of the fan speed | - | Turbo | Turbo | Turbo | Turbo | Turbo | Turbo |
| Rotational speed of the fan | r/min | - | - | - | - | - | - |
| External resistance to airflow | Pa | 0.5 | 0.4 | -0.2 | -0.4 | 0.4 | 0.5 |
| Dry-bulb temp. of air entering equipment, indoor side | °C | 19.97 | 19.97 | 19.91 | 19.99 | 19.93 | 19.97 |
| Wet-bulb temp. of air entering equipment, indoor side | °C | 15.07 | 15.05 | 15.08 | 15.08 | 15.07 | 15.07 |
| Dry-bulb temp. of air entering equipment, outdoor side | °C | -7.08 | 1.97 | 6.98 | 11.99 | -10.06 | -7.08 |
| Wet-bulb temp. of air entering equipment, outdoor side | °C | -8.06 | 1.1 | 5.94 | 10.94 | -10.96 | -8.06 |
| Data collection period | min | 35 | 35 | 35 | 35 | 35 | 35 |
| Total Heating Capacity | W | 7869 | 4719 | 2980 | 2160 | 7550 | 7869 |
| COP (Coefficient of Performance) | W/W | 2.71 | 4.47 | 7.3 | 8.74 | 2.69 | 2.71 |

Revision Summary

| Date | | Item | Description of Change | | |
|------|----------|------|-----------------------|--|--|
| | Reviewer | | | | |
| | | | None | | |
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