



中国认可
国际互认
检测
TESTING
CNAS L0095

ACHTUNG! ZUR SICHERUNG GEISTIGEN EIGENTUMS WURDEN EINZELNE PASSAGEN
UND AUSSCHNITTE UNKENNTLICH GEMACHT: DIE FIRMA GONDZIK HOME
TECHNOLOGIES GMBH SICHERT ZU, DASS ES SICH BEI DER GETESTEN
WÄRMEPUMPE UM FOLGENDES PRODUKT HANDELT. GONDZIK ZULU 9 R290

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TEST REPORT

NAME OF SAMPLE : INTELLIGENT INVERTER HEAT PUMP

CLIENT : GUANGDONG FINEK ECO-ENERGY SOLUTION LTD.

CLASSIFICATION OF TEST : Commission Test

CVC Testing Technology Co., Ltd.



TEST REPORT

EN 60335-1:2012

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Name of sample	INTELLIGENT INVERTER HEAT PUMP	Trade mark	—
Client	SHANGHONG PUMP ECO-ENERGY SOLUTION LTD.	Client address	No. 1, Tianyuan Road, Daping Town, Nanhai, Guangzhou, China
Manufacturer	SHANGHONG PUMP ECO-ENERGY SOLUTION LTD.	Manufacturer address	No. 1, Tianyuan Road, Daping Town, Nanhai, Guangzhou, China
Means of receiving	Sending Sample	Receiving date	Feb. 23, 2022
Classification of test	Commission Test	Completing date	Mar. 1, 2022
Tested according to	EN 12102-1: 2017 EN ISO 3744: 2010	Test items	Noise Test

Test Conclusion:

The test item is performed according to respective relevant standards as required by the client. The test conclusion is listed on page 4.



Approved by: Zheng Ziyang

Zheng Ziyang


Reviewed by: Zhuang Shaohong

Zhuang Shaohong

Tested by: Wu Yuanwei

Wu Yuanwei

TEST REPORT

Sample description	<p>1 Basic information :</p> <p>Name of sample : INTELLIGENT INVERTER HEAT PUMP</p> <p>Type/Model : XXXXXXXXXX-SP-75-B 220-240V~/50Hz</p> <p>Quantity of sample: 1</p> <p>2 Sample picture:</p> <div data-bbox="616 600 1225 1025" data-label="Image"></div> <p>Fig. 1 Appearance of sample</p> <p>3 Other information :</p> <p>Dimensions : 1.170m x 0.400m x 0.790m</p>
Remarks	<p>The standard EN ISO 3744: 2010 has not been applied for China National Accreditation Service for Conformity Assessment (CNAS) yet.</p>

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Tests Summary					
No	Name of sample	Test item	Test standard	Judgment	Test details
1	INTELLIGENT INVERTER HEAT PUMP	Noise Test	EN 12102-1: 2017 EN ISO 3744: 2010	—	Pages 5~7
—					

TEST REPORT

1 Noise Test

1.1 General description

The noise test is performed according to the standards: EN 12102-1: 2017 and EN ISO 3744: 2010;

Test environment: hemi-anechoic room;

Working mode 1: Cooling / Water inlet: 12.0°C / Water outlet: 7.0°C / Water volume: 0.85m³/h /

Fan speed: 600 r/min / Frequency of compressor operation: 80Hz;

Working mode 2: Heating / Water inlet: 30.0°C / Water outlet: 35.0°C / Water volume: 1.0m³/h /

Fan speed: 400 r/min / Frequency of compressor operation: 60Hz;

Working mode 3: Heating / Water inlet: 47.0°C / Water outlet: 55.0°C / Water volume: 0.6m³/h /

Fan speed: 400 r/min / Frequency of compressor operation: 63Hz;

Measurement time: 30s;

Measurement surface: parallelepiped;

Measurement distance: $d=1\text{m}$;

Measurement surface figure:

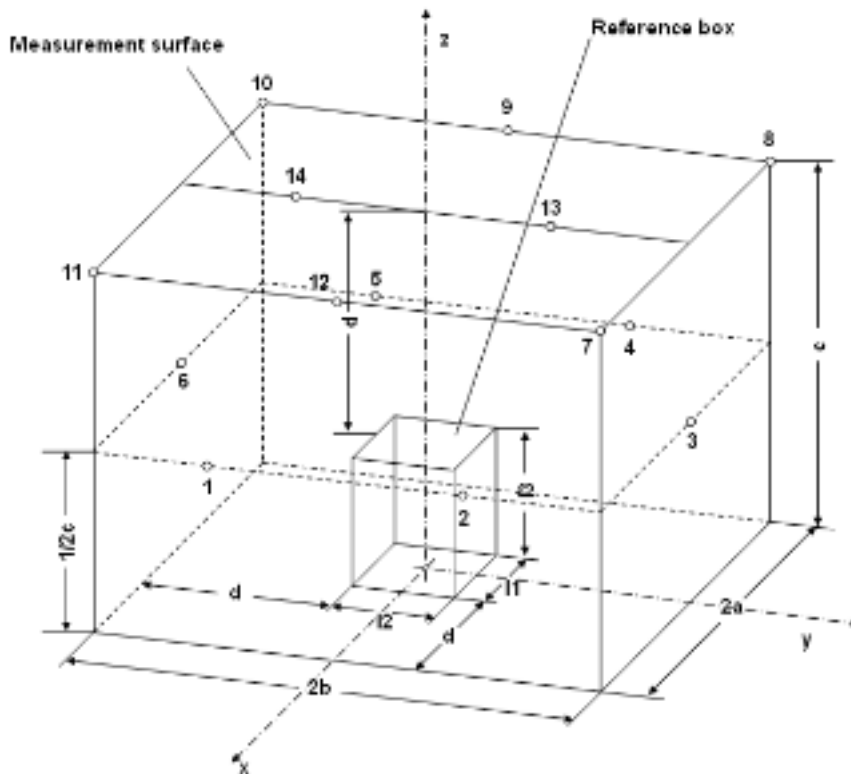


Fig. 2 Measurement surface figure

1.2 Technical requirements (Assessment criterion)

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1.3 Test results

Test Result				
Working condition	Value			Class of working condition
Air temperature and humidity	35.0°C/39.7%RH	7.0°C /86.5%RH	7.0°C /86.5%RH	Class A
Barometric pressure	101.57kPa	101.57kPa	101.57kPa	Class B
Voltage/Frequency	230V~/50Hz			Class A
Working mode	Working mode 1	Working mode 2	Working mode 3	—
Microphone position No.	Corrected sound pressure level dB(A)			Background noise level dB(A)
1	50.0	45.1	48.8	16.6
2	48.9	44.0	48.7	16.8
3	45.2	43.5	44.9	16.8
4	50.0	44.9	46.0	17.2
5	50.1	44.8	46.9	17.1
6	48.9	44.1	46.3	17.2
7	45.6	41.5	45.1	16.5
8	43.8	40.5	44.0	16.4
9	43.5	39.5	40.4	16.1
10	46.3	41.9	44.5	16.9
11	45.6	42.9	43.7	17.1
12	45.0	41.0	43.5	16.1
13	46.7	42.9	45.5	16.2
14	45.4	39.9	42.0	16.1
Averaged sound pressure level \bar{L}_p /dB(A)(Ref.20μPa)	47.7	43.0	45.6	16.7
10lg(S/S ₀)	14.4	14.4	14.4	—
Background noise correction K ₁ /dB(A)	0	0	0	—
Environmental correction K ₂ /dB(A)	—	—	—	—
Corrected averaged sound pressure level L _{pnc} /dB(A)	47.7	43.0	45.6	—
Sound power level L _w /dB(A)	62.1	57.4	60.0	—

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1.4 Test equipment

No	Equipment No	Type / Model	Equipment name	Calibration expiration date
1	NC-036-2	5.2m×4.7m×4.6m	Hemi-anechoic room(A)	2023.10.07
2	VG DY-0257	PXI-1033	6 channel data logger	2022.05.19
3	VG DY-0184	3660C	PULSE system	2022.04.08
4	HJ-000095	4231	Calibrator	2022.06.30
5	VG DS-0637	AFC-33030TS	Three-phase power supply	2022.11.04
6	HJ-000062	5m	Long steel tape	2022.09.13
7	NC-036-1	—	Temperature measurement system	2022.06.07
8	HJ-000165	—	Atmospheric pressure meter	2022.11.22
9	VG DS-0448	—	Constant temperature water system	2022.04.19
10	—	WS002-5	Windscreen	—

Important

1. The test report is invalid without the official stamp of CVC;
2. Any photocopies or part photocopies of the test report are forbidden without the written permission from CVC;
3. The test report is invalid without the signatures of Author and Reviewer;
4. The test report is invalid if altered;
5. Objections to the test report must be submitted to CVC within 15 days;
6. Generally, commission test is responsible for the tested samples only;
7. As for the test result, “N” or “—” means “not applicable” , “/ ” means “not testing” , “P” means “pass” , and “F” means “fail”.

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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