



中国认可
国际互认
检测
TESTING
CNAS L0095

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No: GJW2025-1536-1

TEST REPORT

NAME OF SAMPLE

DC Inverter heat pump

CLIENT

Shunhong Environmental Technology (Suzhou) Co., Ltd.

CLASSIFICATION OF TEST

Commission Test

CVC Testing Technology Co., Ltd.

TEST REPORT

No GJW2025-1536-1

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Name of product:	DC Inverter heat pump	Trade mark:	—
Type/Model:	BEHR0100NNSP01 220-240V ~ 50Hz	Sample status:	—
Client:	Shunhong Environmental Technology (Suzhou) Co., Ltd.	Factory:	Shunhong Environmental Technology (Suzhou) Co., Ltd.
Client address:	No. 305, Tongjiang Road, Bixi Street, Changshu City, 215512 Jiangsu P.R. China	Factory address:	No. 305, Tongjiang Road, Bixi Street, Changshu City, 215512 Jiangsu P.R. China
Quantity of sample:	1 piece	Sampled by:	—
Sample identification:	2-1	Sampling at(place):	—
Means of receiving:	Express	Means of sampling:	—
Classification of test:	Commission Test	Sampling date:	—
Receiving date:	Mar. 25, 2025	Completing date:	Mar. 25, 2025
Tested according to:	EN 12102-1: 2022 EN ISO 3744: 2010	Test item:	Noise Test

Test conclusion:

The appliance submitted by the client is tested according to the following standards:

EN 12102-1: 2022 Air conditioners, liquid chilling packages, heat pumps, process chillers and dehumidifiers with electrically driven compressors - Determination of the sound power level - Part 1: Air conditioners, liquid chilling packages, heat pumps for space heating and cooling, dehumidifiers and process chillers and EN ISO 3744: 2010 Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane.

The test result is detailed in page 4~6.

Seal of CVC

Date of issue: 2025-04-11

Approved by: Zheng Ziyong

Zheng Ziyong

Reviewed by: Wu Yuanwei

Wu Yuanwei

Tested by: Zhou Canjian

Zhou Canjian

检测合格

Description and illustration of the sample:

1 Sample picture:



Fig. 1 Appearance

2 Other information:

Dimensions : 1.100m x 0.420m x1.030m

Description of the deviation from the standard:

—

Remarks:

The standard EN ISO 3744: 2010 has not been applied for China National Accreditation Service for Conformity Assessment (CNAS) yet.

1 Noise Test

1.1 General description

The noise test is performed according to the standards: EN 12102-1: 2022 and EN ISO 3744:2010;
Test environment: hemi-anechoic room;
Working mode 1: Heating / Water inlet: 33.1°C / Water outlet: 35.0°C / Water volume: 1.64m³/h /
Fan speed: 400 r/min / Frequency of compressor operation: 29Hz;
Working mode 2: Heating / Water inlet: 51.8°C / Water outlet: 55.0°C / Water volume: 0.94m³/h /
Fan speed: 400 r/min / Frequency of compressor operation: 30Hz;
Measurement time: 30s;
Measurement surface: parallelepiped;
Measurement distance: d=1m;
Measurement surface figure:

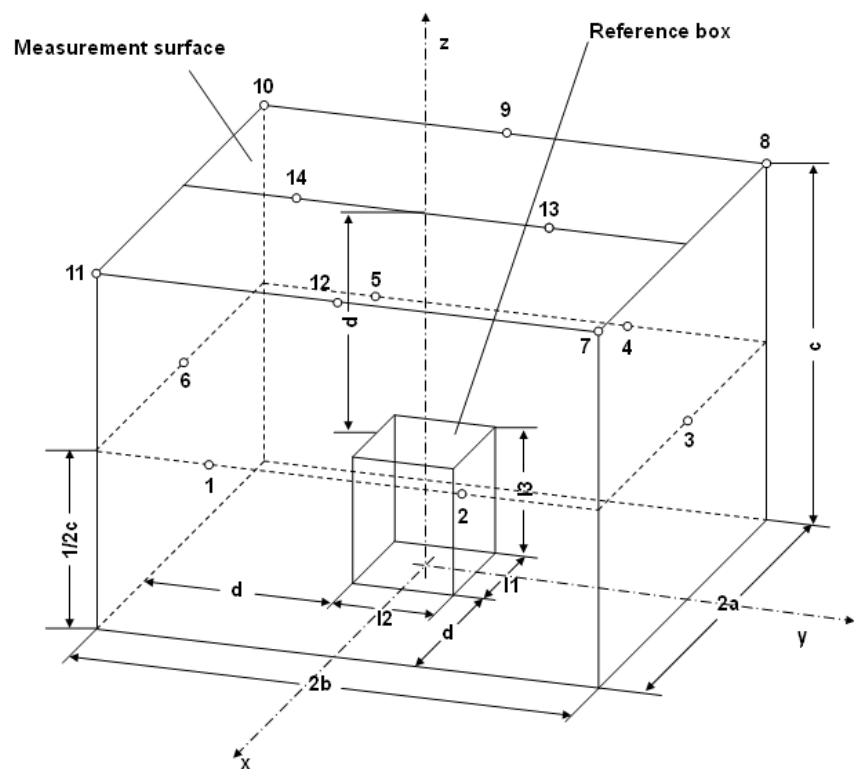


Fig. 2 Measurement surface figure

1.2 Technical requirements (Assessment criterion)

1.3 Test results

Working condition	Value	Class of working condition
Air temperature and humidity	7.0°C /86.5%RH	Class A
Barometric pressure	101.2kPa	Class B
Voltage/Frequency	230V~50Hz	Class A

Test Result			
Working mode	Working mode 1	Working mode 2	—
Microphone position No.	Corrected sound pressure level dB(A)		Background noise level dB(A)
1	43.7	44.3	17.9
2	44.4	44.9	18.4
3	43.2	43.6	18.3
4	44.5	46.0	17.6
5	46.6	47.5	18.6
6	44.1	45.6	19.0
7	40.0	40.1	18.5
8	39.9	40.9	17.5
9	42.9	43.7	18.0
10	42.3	43.3	19.1
11	40.3	40.9	18.3
12	42.5	42.8	18.6
13	41.3	41.2	17.9
14	41.2	41.6	18.0
Averaged sound pressure level $\overline{L_p}$ /dB(A)(Ref.20μPa)	43.1	43.8	18.3
10lg(S/S ₀)	14.8	14.8	—
Background noise correction K ₁ /dB(A)	0	0	—
Environmental correction K ₂ /dB(A)	—	—	—
Corrected averaged sound pressure level L _{pmc} /dB(A)	43.1	43.8	—
Sound power level L _w /dB(A)	57.3	58.0	—

1.4 Test equipment

№	Equipment №	Type / Model	Equipment name	Calibration expiration date
1	NC-036-3	5.2m×4.4m×4.6m	Hemi-anechoic room(B)	2028.10.06
2	VG DY-2137	AHAI2022	Dynamic signal analysis system	2026.01.01
3	HJ-000095	4231	Calibrator	2025.06.24
4	VGDS-0637	AFC-33030TS	Three-phase power supply	2025.10.28
5	HJ-000062	5m	Long steel tape	2025.09.10
6	NC-036-1	Special	Temperature measurement system	2025.06.03
7	HJ-000165	—	Atmospheric pressure meter	2025.11.12
8	VGDS-0448	Special	Constant temperature water system	2025.04.12
9	—	WS002-5	Windscreen	—

I m p o r t a n t

1. The test report is invalid without the official stamp of CVC;
2. Any 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, “—” or “N” 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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