



中国认可  
国际互认  
检测  
TESTING  
CNAS L0095

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No GJW2021-6221

# TEST REPORT

NAME OF SAMPLE : EVI DC Inverter Air Source Heat Pumps

CLIENT : Guangzhou Sprsun New Energy Technology Development Co., Ltd.

CLASSIFICATION OF TEST : Commission Test

**CVC Testing Technology Co., Ltd.**

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Name of sample	EVI DC Inverter Air Source Heat Pumps	Trade mark	—
Client	Guangzhou Sprsun New Energy Technology Development Co., Ltd.	Client address	No.15 Tangxi Road, Yinsha Industrial Park, Xintang, Zengcheng District, Guangzhou, 511338, China
Manufacturer	Guangzhou Sprsun New Energy Technology Development Co., Ltd.	Manufacturer address	No.15 Tangxi Road, Yinsha Industrial Park, Xintang, Zengcheng District, Guangzhou, 511338, China
Means of receiving	Sending Sample	Receiving date	Nov. 5, 2021
Classification of test	Commission Test	Completing date	Nov. 10, 2021
Tested according to	EN 12102-1: 2017 EN ISO 3744: 2010	Test items	Noise Test
<p>Test Conclusion:</p> <p>The test item is performed according to respective relevant standards as required by the client. The test conclusion is listed on page 4.</p> <p style="text-align: right;"><b>Seal of CVC</b> <b>Date of issue: 2022.1.26</b></p>			

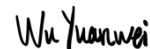
Approved by: Zeng Bo



Reviewed by: Zheng Ziyong




Tested by: Wu Yuanwei



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<p>Sample description</p>	<p>1 Basic information :</p> <p>Name of sample : EVI DC Inverter Air Source Heat Pumps</p> <p>Type/Model : CGK-050V3L 380-420V/50Hz</p> <p>Quantity of sample: 1</p> <p>2 Sample picture:</p>  <p>Fig. 1 Appearance of sample</p> <p>3 Other information :</p> <p>Dimensions : 1.100m x 0.420m x1.355m</p>
<p>Remarks</p>	<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	EVI DC Inverter Air Source Heat Pumps	Noise Test	EN 12102-1: 2017 EN ISO 3744: 2010	—	Pages 5~7
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## 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;

Water inlet: 30.0°C / Water outlet: 35.0°C;

Water volume: 1.8m<sup>3</sup>/h;

Measurement time: 30s;

Measurement surface: parallelepiped;

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

Measurement surface figure:

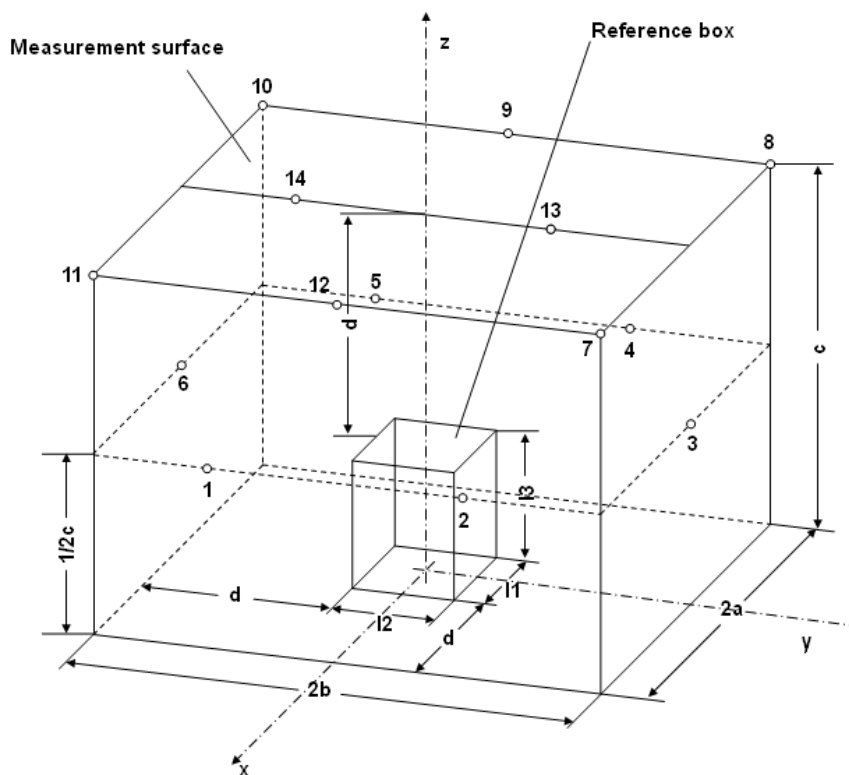


Fig. 2 Measurement surface figure

### 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	7.0°C /86.5%RH	Class A
Barometric pressure	101.51kPa	Class B
Voltage/Frequency	400V~/50Hz	Class A
Working mode	Heating	—
Microphone position No.	Corrected sound pressure level dB(A)	Background noise level dB(A)
1	48.4	17.1
2	49.0	17.3
3	46.1	16.7
4	47.7	16.5
5	47.7	16.0
6	45.0	17.0
7	47.1	17.2
8	47.1	17.3
9	42.2	16.7
10	47.0	16.4
11	43.0	16.0
12	44.9	17.0
13	43.6	17.0
14	43.5	16.0
Averaged sound pressure level $\overline{L}_p$ /dB(A)(Ref.20μPa)	46.4	16.8
$10\lg(S/S_0)$	15.3	—
Background noise correction $K_1$ /dB(A)	0	—
Environmental correction $K_2$ /dB(A)	—	—
Corrected averaged sound pressure level $L_{pnc}$ /dB(A)	46.4	—
<b>Sound power level</b> $L_w$ /dB(A)	61.7	—

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## 1.4 Test equipment

№	Equipment №	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-0184	3660C	PULSE system	2022.04.08
3	HJ-000095	4231	Calibrator	2022.06.30
4	VG DS-0637	AFC-33030TS	Three-phase power supply	2022.11.04
5	HJ-000062	5m	Long steel tape	2022.09.13
6	NC-036-1	—	Temperature measurement system	2022.06.07
7	HJ-000165	—	Atmospheric pressure meter	2021.11.30
8	VG DS-0448	—	Constant temperature water system	2022.04.19
9	—	WS002-5	Windscreen	—

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## 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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