Technical Report No.: 64181260052201 Rev.00

Date: 2026-11-03

Client:	Name:	Hisense Air Conditioning Co., Ltd.
	Address:	No.1, Hisense Road, Nancun Town, Pingdu, 266000 Qingdao, Shandong Province, PEOPLE'S REPUBLIC OF CHINA
	Contact person:	Ms. Yang huan
Manufacturer:	Name:	Hisense Air Conditioning Co., Ltd.
	Address:	No.1, Hisense Road, Nancun Town, Pingdu, 266000 Qingdao, Shandong Province, PEOPLE'S REPUBLIC OF CHINA
Factory:	Name:	SolarEast Heat Pump Ltd.
	Address:	No.73 Defu Road, Xingtan Town Shunde District 528325 Foshan City, Guangdong Province, People's Republic of China
Test object:	Product:	Air Source Heat Pump
	Model:	AHZ-080U4GSB01
	Trade mark:	Hisense
Test specification:	☑	EN 14825:2022
	☑	EN 14511-3:2022
	☑	EN 12102-1:2022
	☑	EN 14511-4:2022 Clause 4
Purpose of examination:	• Testing and evaluation (☐ visual / ☐ partial) according to the test specification	
	☑	(EU) No 813/2013
	☑	EU 2016/2282:2016-11-30
Test result:	The test results show that the presented product is in compliance with the above listed test specifications.	

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1 Description of the test object

1.1 Function

Manufacturer's specification for intended use:

The appliance is air to water heat pump.

Manufacturer's specification for predictive use:

According to user manual

1.2 Consideration of the foreseeable use

☐ Not applicable

☑ Covered through the applied standard

☐ Covered by the following comment

☐ Covered by attached risk analysis

1.3 Technical Data

Model :	AHZ-080U4GSB01
Rated Voltage (V) :	220-240V~
Rated Frequency (Hz) :	50
Rated Power (W) :	see the nameplate
Rated Current (A) :	see the nameplate
Protection Class :	Class I
Protection Against Moisture :	IP X4
Construction :	Stationary
Supply connection :	☐ Non detachable cord
	☑ Permanent connection to fixed wiring
Operation mode:	☑ Continuous operation;
	☐ Intermittent operation;
	☐ Short time operation;
Refrigerant/charge (kg) :	R290 / 1.00kg
Declared parameters :	☑ Average ☐ Warmer ☐ Colder
Sound power level dB(A) :	N/A
Series No :	8F00260626050001

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2 Order

2.1 Date of Purchase Order, Customer's Reference

Date of Purchase Order: 2026-05-21

Customer's Reference: Hisense Air Conditioning Co., Ltd.

2.2 Test Sample(s)

• Reception date(s): 2026-07-02

• Location(s) of reception:

For Energy test:

Guangzhou Customs District Technology Center
(CNAS accredited laboratory with Registration No.CNAS L2322)

Address: No.3, Desheng East Road, Daliang, Shunde District, Foshan, Guangdong, China

For Noise tests:

China Quality Certification Centre Co.,Ltd.
(CNAS accredited laboratory with Registration No.CNAS L4903)

Address: No. 11, South of Shenghui Road, Nantou, Zhongshan, Guangdong, China

• Condition of test sample(s): completed and can be normal operation

2.3 Date(s) of Testing

2026-07-02 to 2026-10-15

2.4 Location(s) of Testing

Same as 2.2

2.5 Points of Non-compliance or Exceptions of the Test Procedure

N/A

3 Test Results

☒ Decision rule according to ILAC-G8:09/2019 clause 4.2.1 Binary statement for simple acceptance rule or IEC Guide 115:2023, clause 4.3 Simple acceptance was applied.

☐ Decision rule according to customer's requirements was applied. It is:

☐ Decision rule according to ILAC-G8:09/2019 clause 4.2.2 Binary statement with guard band - guard band length = 95 % extended measurement uncertainty, was applied.

☐ Decision rule (based on ILAC-G8:09/2019 clause 4.2.3 Non-binary statement with guard band, guard band length = 95 % extended measurement uncertainty) for an upper specification limit (A lower limit or specification with an up-per and a lower limit is treated similarly.):

• Compliance with the requirement: If a specification limit is not breached by a measurement result plus the expanded uncertainty with a 95% coverage probability, then compliance with the specification will be stated (e. g. Pass).

• Non-compliance with the requirement: If a specification limit is exceeded by the measurement result minus the expanded uncertainty with a 95% coverage probability, then non-compliance with the specification will be stated (e. g. Fail).

• Inconclusive result: If a measurement result plus/minus the expanded uncertainty with a 95 % coverage probability overlaps the limit it will be stated that it is not possible to state compliance or non-compliance.

☐ There are no statements to conformity or no results with measurand stated in this report, no decision rule has been applied.

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3.1 Positive Test Results

See Appendix I

4 Remarks

4.1 General

The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.

4.2 When the product is placed on the market, it must be accompanied with safety Instructions written in official language of the country. The instructions shall give information regarding safe operation, installation and maintenance.

5 Documentation

- Appendix I: Test results
- Appendix II: Marking plate
- Appendix III: photo documentation
- Appendix IV: Construction data form
- Appendix V: Test equipment list

6 Test History

1) These appliances are Air To Water Heat Pump Unit, each one including a whole compression type refrigerant circuit to heat water in another circuit. These appliances were for cooling and heating water function, this report only for heating capacity test.
2) The main power is supplied by a 3-pole supply cord connecting to fixed wiring.
3) Water enthalpy method was adopted in this report.
4) Standby mode power, off mode power and thermostat-off mode power were tested according to clause 12 of standard EN 14825:2022.

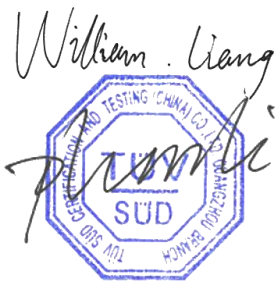
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TÜV SÜD Group

Tested by: William Liang, Project Handler

printed name, function & signature

Approved by: Plum Li, Designated Reviewer

printed name, function & signature



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Appendix I Test results

Table 1.	Heating mode (Low temperature application):							P
Model	AHZ-080U4GSB01							
Product type	Air to Water	**Heating season**	☑	Average	☐	Warmer	☐	Colder

1. Test conditions:

Condition	Part Load Ratio in %		Outdoor heat exchanger	Indoor heat exchanger
	Formula	Average climates	Inlet dry (wet) bulb temperature (°C)	Inlet/outlet water temperatures (°C)
A	(-7-16)/(Tdesignh-16)	88	-7(-8)	a / 34
B	(+2-16)/ (Tdesignh-16)	54	2(1)	a / 30
C	(+7-16)/(Tdesignh-16)	35	7(6)	a / 27
D	(+12-16)/(Tdesignh-16)	15	12(11)	a / 24
E	(TOL-16)/ (Tdesignh-16)		TOL	a / 35.3
F	(Tbivalent-16)/(Tdesignh-16)		Tbiv	a / 34
G	(-15-16)/(Tdesignh-16)	N/A	-15	N/A

Remark: a) With the water flow rate as determined at the standard rating conditions given in EN14511-2 at 30/35 conditions, the capacity is 7.914kW, the power is 1.552kW, the COP is 5.10kW/kW.

2.Tested data/correction data(Average):

General test conditions/ Part-Load	Unit	A(-7)/W34 (88%)	A2/W30 (54%)	A7/W27 (35%)	A12/W24 (15%)	A(-10)/ W35.3 (100%)	A(-7)/ W34 (88%)
	--	A	B	C	D	E	F
Data collection period	hh: min:sec	1:10:00	1:10:00	1:10:00	1:10:00	1:10:00	1:10:00
The heat pump defrosts	--	No	No	No	No	No	No
Electrical Properties							
Voltage	V	229.7	230.0	230.2	230.0	229.6	229.7
Current input of the unit	A	9.45	4.94	2.55	2.36	12.12	9.45
Power input of the unit	kW	2.167	0.859	0.428	0.381	2.777	2.167
Compressor frequency	Hz	72	33	20	20	86	72

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Appendix I Test results

Test conditions User Side							
Water flow	m³/h	1.38	1.38	1.38	1.38	1.38	1.38
Inlet Water temperature	°C	29.65	27.23	25.20	23.26	30.31	29.65
Outlet Water temperature	°C	34.02	29.92	26.97	25.31	35.16	34.02
Test conditions Source Side							
Barometric pressure	kPa	101.02	101.01	101.01	101.02	101.01	101.02
Air **inlet** temperature, DB	°C	-7.08	1.99	7.06	12.04	-10.05	-7.08
Air **inlet** temperature, WB	°C	-8.05	0.96	5.90	11.06	-11.02	-8.05
Summary of the results							
Total heating capacity	kW	7.012	4.301	2.834	3.287	7.774	7.012
Effective power input	kW	2.150	0.844	0.411	0.369	2.758	2.150
Coefficient of performance (COP)	kW/kW	3.26	5.09	6.90	8.90	2.82	3.26
Remark: -							

Electric power consumptions	**Unit**	**Value**
Thermostat-off mode [P_{TO}]	kW	0.029
Standby mode [P_{SB}]	kW	0.013
Crankcase heater [P_{CK}]	kW	0.032
Off mode [P_{OFF}]	kW	0.013

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Appendix I Test results

3.Calculation/conclusion for SCOP:			
Tdesignh(°C):	-10	Tbiv(°C) :	-7
Pdesignh(kW):	7.927	TOL(°C) :	-10

Test result A, B, C, D, E, F conditions:

Condition	Part load	Measured capacity	Measured COP	Cdh	CR	COP at part load
E	7.927	7.774	2.82	0.90	1.00	2.82
F	7.012	7.012	3.26	0.90	1.00	3.26
A	7.012	7.012	3.26	0.90	1.00	3.26
B	4.268	4.301	5.09	0.90	0.99	5.09
C	2.744	2.834	6.90	0.90	0.97	6.90
D	1.219	3.287	8.90	0.90	0.37	7.61

CR: part load divided by capacity;

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	5.22
SCOP:	kWh/kWh	5.20
Q_H:	kWh/year	16376
Q_{HE}:	kWh/year	3148
$\eta_{s,h}$	%	205.1
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)	--	A+++

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Appendix I Test results

Table 2.	Heating mode (Medium temperature application):							P
Model	AHZ-080U4GSB01							
Product type	Air to Water	**Heating season**	☑	Average	☐	Warmer	☐	Colder

1. Test conditions:

Condition	Part Load Ratio in %		Outdoor heat exchanger	Indoor heat exchanger
	Formula	Average climates	Inlet dry (wet) bulb temperature (°C)	Inlet/outlet water temperatures (°C)
A	(-7-16)/(Tdesignh-16)	88	-7(-8)	a / 52
B	(+2-16)/ (Tdesignh-16)	54	2(1)	a / 42
C	(+7-16)/(Tdesignh-16)	35	7(6)	a / 36
D	(+12-16)/(Tdesignh-16)	15	12(11)	a / 30
E	(TOL-16)/ (Tdesignh-16)		TOL	a / 55.3
F	(Tbivalent-16)/(Tdesignh-16)		Tbiv	a / 52
G	(-15-16)/(Tdesignh-16)	N/A	-15	N/A

Remark: a) With the water flow rate as determined at the standard rating conditions given in EN14511-2 at 47/55 conditions, the capacity is 7.900kW, the power is 2.407kW, the COP is 3.28kW/kW.

2.Tested data/correction data(Average):

General test conditions/ Part-Load	Unit	A(-7)/W52 (88%)	A2/W42 (54%)	A7/W36 (35%)	A12/W30 (15%)	A(-10)/ W55.3 (100%)	A(-7)/ W52 (88%)
	--	A	B	C	D	E	F
Data collection period	hh: min:sec	1:10:00	1:10:00	1:10:00	1:10:00	1:10:00	1:10:00
The heat pump defrosts	--	No	No	No	No	No	No
Electrical Properties							
Voltage	V	229.4	229.9	230.1	230.2	229.2	229.4
Current input of the unit	A	12.71	5.03	3.09	2.70	16.10	12.71
Power input of the unit	kW	2.904	1.154	0.522	0.442	3.646	2.904
Compressor frequency	Hz	76	35	20	20	90	76

Appendix I Test results

Test conditions User Side							
Water flow	m³/h	0.86	0.86	0.86	0.86	0.86	0.86
Inlet Water temperature	°C	44.98	37.74	33.25	28.74	47.38	44.98
Outlet Water temperature	°C	52.04	42.05	36.05	31.89	55.14	52.04
Test conditions Source Side							
Barometric pressure	kPa	99.85	99.85	99.85	99.80	99.75	99.85
Air **inlet** temperature, DB	°C	-7.06	2.06	7.00	12.01	-9.98	-7.06
Air **inlet** temperature, WB	°C	-7.99	1.03	5.94	11.03	-11.04	-7.99
Summary of the results							
Total heating capacity	kW	7.053	4.307	2.789	3.129	7.758	7.053
Effective power input	kW	2.895	1.143	0.511	0.431	3.636	2.895
Coefficient of performance (COP)	kW/kW	2.44	3.77	5.45	7.27	2.13	2.44
Remark: -							

Electric power consumptions	Unit	Value
Thermostat-off mode [P_{TO}]	kW	0.029
Standby mode [P_{SB}]	kW	0.013
Crankcase heater [P_{CK}]	kW	0.032
Off mode [P_{OFF}]	kW	0.013

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Appendix I Test results

3.Calculation/conclusion for SCOP:			
Tdesignh(°C):	-10	Tbiv(°C) :	-7
Pdesignh(kW):	7.973	TOL(°C) :	-10

Test result A, B, C, D, E, F conditions:

Condition	Part load	Measured capacity	Measured COP	Cdh	CR	COP at part load
E	7.973	7.758	2.13	0.90	1.00	2.13
F	7.053	7.053	2.44	0.90	1.00	2.44
A	7.053	7.053	2.44	0.90	1.00	2.44
B	4.293	4.307	3.77	0.90	1.00	3.77
C	2.760	2.789	5.45	0.90	0.99	5.45
D	1.227	3.129	7.27	0.90	0.39	6.29

CR: part load divided by capacity;

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	3.96
SCOP:	kWh/kWh	3.95
Q_H:	kWh/year	16473
Q_{HE}:	kWh/year	4173
$\eta_{s,h}$	%	154.9
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)	--	A+++

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Appendix I Test results

Table 3a.	Sound power level measurement (Low temperature application)		P
Model	AHZ-080U4GSB01		
	Product type :		Air to Water
	Outdoor heat exchanger, Air temperature DB/WB (°C):		7.0 / 6.0
	Indoor heat exchanger, Water outlet temperature (°C):		35.0
	Voltage (V):		230
	Frequency (Hz):		50
	Working condition class :		Class A
	Acoustical environment :		Hemi-anechoic room
	Windshield type :		Sponge
	Measured position amount :		14

Measured quantity	$L_{WA,indoors}$ (dB(A))	$L_{WA,outdoors}$ (dB(A))	Remark
Sound pressure level $\overline{L}_{p(ST)}$****	--	34	--
Measurement distance d *	--	1.0m	--
Sound power level L_{wA}****	--	48	--

Setting of controls: according to user manual.
Duct connection:--
Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer

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Appendix I Test results

Table 3b.	Sound power level measurement (Medium temperature application)		P
Model	AHZ-080U4GSB01		
	Product type :		Air to Water
	Outdoor heat exchanger, Air temperature DB/WB (°C):		7.0 / 6.0
	Indoor heat exchanger, Water outlet temperature (°C):		55.0
	Voltage (V):		230
	Frequency (Hz):		50
	Working condition class :		Class A
	Acoustical environment :		Hemi-anechoic room
	Windshield type :		Sponge
	Measured position amount :		14
Measured quantity	**$L_{WA,indoors}$ (dB(A))**	**$L_{WA,outdoors}$ (dB(A))**	**Remark**
Sound pressure level $\overline{L}_{p(ST)}$****	--	37	--
Measurement distance d *	--	1.0m	--
Sound power level L_{wA}****	--	52	--
Setting of controls: according to user manual. Duct connection:-- Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer			

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Appendix I Test results

Table 4.	Clause 4 of EN 14511-4:2022	P
Model:	**AHZ-080U4GSB01**	
TEST 1	STARTING TEST (§4.2.1.2 Table 3)	
Requirement: The "lower" starting operating conditions declared by the manufacturer for the heating mode- i.e. Tair= -25.03 °C, T in water = 17.05 °C, Flow rate 0.70 m³/h have been set and obtained. At those conditions, the machine was switched on.		
Observation/ Evaluation: It started without any problem and worked for 30 minutes without showing any warning or alarm. During the test the machine operated in auto mode. No damage was recorded on the machine during and after the test.		
Test Response: Pass		

TEST 2	OPERATING TEST (§4.2.1.2 Table 3)
Requirement: From the machine "lower" starting conditions - i.e. - the machine was brought to the lower operating conditions declared by the manufacturer for the heating mode- i.e. Tair= -24.99 °C, T in water = 62.98 °C, Flow rate 0.70 m³/h. Once these conditions were obtained, the machine was let operate for over 1 hour in auto mode.	
Observation/ Evaluation: During the test, no waring or alarm were showed. No damage was recorded on the machine during and after the test.	
Test Response: Pass	

TEST 3	SHUTTING OFF WATER FLOW (§ 4.5)
Requirement: The water flow rate was shuted off through manual and automatic valves of the test rig. The machine switched off and only the flow switch Protection appeared on the user interface of indoor unit.	
Observation/ Evaluation: Perform error reset operation, once the water flow rate was restored, the machine restarted automatically and worked for 30 minutes normally. No damage was recorded on the machine during and after the test.	
Test Response: Pass	

TEST 4	SHUTTING OFF AIR FLOW (§ 4.5)
Requirement: The air flow rate was shutted off through a plastic sheet and a panel. The machine never turned off. It continued to operate with continuous frosting and defrosting cycles. After more than half an hour, the air flow rate was restored and the machine started to operate normally.	
Observation/ Evaluation: During the test, no waring or alarm were showed. No damage was recorded on the machine during and after the test.	
Test Response: Pass	

TEST 5	COMPLETE POWER SUPPLY FAILURE (§ 4.6)
Requirement: The power supply was cut off for about 5 seconds.	
Observation/ Evaluation: The unit restarted automatically within about 3 minutes after the power supply was reactivated.	
Test Response: Pass	

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Appendix II Marking plate

Nameplate

Model: AHZ-080U4GSB01

Hisense Air to water Heat Pump			
Model		AHZ-080U4GSB01	
Power Supply		220-240V~ / 50Hz	
Heating[1]	Capacity	kW	8.00
	Input Power	kW	1.60
	Input Current	A	6.96
	COP	W/W	5.00
Heating[2]	Capacity	kW	8.00
	Input Power	kW	2.46
	Input Current	A	10.70
	COP	W/W	3.25
Cooling[1]	Capacity	kW	8.00
	Input Power	kW	2.50
	Input Current	A	10.87
	EER	W/W	3.20
Cooling[2]	Capacity	kW	8.00
	Input Power	kW	1.60
	Input Current	A	6.96
	EER	W/W	5.00
Rated Input Power		kW	4.14
Rated Input Current		A	18
Refrigerant Type/Charge/GWP 		.../ kg	R290 / 1.0 / 3
CO_2 Equivalent		/	0.003t
Operation Pressure(Low Side)		MPa	0.8
Operation Pressure(High Side)		MPa	3.2
Maximum Allowable Pressure		MPa	3.4
Electrical Shockproof		/	I
IP Class		/	IPX4
Max. Outlet Water Temp.		℃	75
Operating Ambient Temperature		℃	-25 ~ 45
Water Piping Connections		inch	G1
Rated Water Flow		m³/h	1.38
Water Pressure Drop		kPa	15
Min/Max Water Pressure		MPa	0.1 / 0.3
Sound Pressure Level		dB(A)	37
Net Dimensions (L×W×H)		mm	1220×458×864
Net Weight		kg	142

Rated Test Conditions:
Heating[1]: Ambient Temp 7℃/6℃(DB/WB), Water-In/Out Temp 30℃/35℃
Heating[2]: Ambient Temp 7℃/6℃(DB/WB), Water-In/Out Temp 47℃/55℃
Cooling[1]: Ambient Temp 35℃/24℃(DB/WB), Water-In/Out Temp 12℃/7℃
Cooling[2]: Ambient Temp 35℃/24℃(DB/WB), Water-In/Out Temp 23℃/18℃
Hisense Air conditioning Co., Ltd.
No.1, Hisense Road, Nancun Town, Pingdu City, Qingdao City, Shandong Province, P. R.China



Appendix III photo documentation

Details of:	Overall view
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	

Details of:	Compressor
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	

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Appendix III photo documentation

Details of:	Fan Motor
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	

Details of:	Main Control Board
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	

Appendix III photo documentation

Details of:	Water Pump
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	 

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Appendix IV Construction data form

Model：AHZ-080U4GSB01		
Part		**Technical data**
1. Compressor		
	Manufacture:	Zhejiang Meizhi Compressor Co., Ltd.
	Type:	EDTF420D62EM5B
	Serial-number:	R605051555Y
	Specification:	DC230V; R290
2. Condenser		
	Manufacture:	ZheJiang SANHUA BPHE Technology Co.,Ltd
	Type:	J40AH-46HY-02
	Heat exchanger:	Plate Heat Exchanger
	Dimension(mm):	332*81*118mm
3. Evaporator		
	Manufacture:	SolarEast Heat Pump Ltd.
	Type:	DKLNSC-008PN9F1-LQ-1-1
	Heat exchanger:	Finned heat exchanger
	Dimension(mm):	1010*800*65 mm
4. Fan motor		
	Manufacture:	GUANGDONG WELLING MOTOR MANUFACTURING CO.,LTD
	Type:	ZKSP-200-8-15
	Fan type:	3 blade
	Specification:	DC310V; 200W
5. Main control board		
	Manufacture:	Hangzhou Leaderway Electronics Co., Ltd.
	Type:	HWT1W-3
	Specification:	220-240V; 50/60Hz
6. Water pump		
	Manufacture:	Grundfos Holding A/S
	Type:	UPM4XL K 25-90 130
	Specification:	230V; 50/60Hz

Appendix V Equipment List

No.	Type	Manufacture	Model	Equipment ID	Calibration Due Date
1	Heat pump energy efficiency testing system	/	10HP	2017JO0001	2026-11-07
2	Electromagnetic flowmeter	KROHNE	OPTIFLUX4100C	H17221264	2026-11-07
3	20 Channel noise and vibration testing system	/	SA-02M	CQCSC-BE-0075	2027-10-24
4	Nosie Testing Lab	/	ZR-02	CQCSC-BE-0026	2027-10-24
5	Nosie Testing Lab (Environmental control system)	/	ZR-02	CQCSC-BE-0026	2027-09-01
6	Steel ruler	/	0-1000mm	CQCSC-BE-0078	2026-11-07
7	Steel ruler	/	0-2000mm	CQCSC-BE-0080	2026-11-07
8	Telemeter rod	/	0-3000mm	CQCSC-BE-0084	2026-11-23

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