



**Référence:** E13\*10R06/01\*16037\*00

**Annexes:** - Rapport Technique  
- Fiche de Renseignements du constructeur

Bertrange, le 09 novembre 2021

**Communication concernant:**<sup>(2)</sup>

Communication concerning:



**- la délivrance d'une homologation**

approval granted

**- l'extension d'homologation**

approval extended

**- le refus d'homologation**

approval refused

**- le retrait d'homologation**

approval withdrawn

**- l'arrêt définitif de la production**

production definitely discontinued

**d'un type de sous-ensemble électrique/électronique<sup>(2)</sup> en ce qui concerne le Règlement N° 10**  
of a type of electrical/electronic sub-assembly with regard to Regulation N° 10

**Numéro d'homologation par type:**

Approval number:

E13\*10R06/01\*16037\*00

**Marque d'homologation:**

Approval mark:

 10R - 06 16037

- Fabricant: (marque commerciale du constructeur):**  
Make (trade name of manufacturer): SANJO (for logo refer to Test Report)
- Type:**  
Type: RCE
  
- Dénomination(s) commerciale(s) générale(s):**  
General commercial description(s): Compressor refrigerator

<b>3.</b>	<b>Moyens d'identification du type, s'ils sont marqués sur le véhicule / composant / entité technique<sup>(2)</sup>:</b> Means of identification of type, if marked on the vehicle / component / separate technical unit <sup>(2)</sup> :	Version 1: RCE140L Version 2: RCE170L
<b>3.1.</b>	<b>Emplacement de ce marquage:</b> Location of that marking:	Label affixed on the housing of the product
<b>4.</b>	<b>Catégorie du véhicule:</b> Category of vehicle:	Not applicable
<b>5.</b>	<b>Nom et adresse du constructeur:</b> Name and address of manufacturer:	Jiangsu Sanjo Intelligent Technology Co., Ltd. No. 258 Wuxing Avenue, Nandu Town, Liyang City, Jiangsu Province, China
<b>6.</b>	<b>Dans le cas de composants ou d'entités techniques, emplacement et procédé de fixation de la marque de réception CEE:</b> In the case of components and separate technical units, location and method of affixing of the ECE approval mark:	Label affixed on the housing of the product
<b>7.</b>	<b>Adresse(s) de l' (des) usine(s) d'assemblage:</b> Address(es) of assembly plant(s):	Jiangsu Sanjo Intelligent Technology Co., Ltd. No. 258 Wuxing Avenue, Nandu Town, Liyang City, Jiangsu Province, China
<b>8.</b>	<b>Informations supplémentaires (s'il y a lieu):</b> Additional informations (where applicable):	See appendix below
<b>9.</b>	<b>Service technique responsable de l'exécution des essais:</b> Technical service responsible for carrying out the tests:	TÜV Rheinland Luxemburg s.à r.l. 2-4, rue Edmond Reuter L-5326 Contern
<b>10.</b>	<b>Date du rapport d'essai:</b> Date of test report:	15.09.2021
<b>11.</b>	<b>Numéro du rapport d'essai:</b> Number of test report:	87-R10-2072/21-00
<b>12.</b>	<b>Remarques (s'il y a lieu):</b> Remarks (if any):	See appendix below

13. **Lieu:** Bertrange  
Place:

14. **Date:** 09 novembre 2021  
Date:

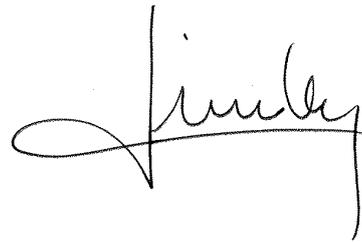
15. **Signature:**  
Signature:

**Pour le Ministre de la Mobilité  
et des Travaux publics**



**Alain DISVISCOUR**  
Conseiller

**Pour la SNCH**



**Laurent LINDEN**  
Directeur opérationnel



16. **L'index de l'ensemble des renseignements déposé chez l'autorité de réception, qui peut être obtenu sur demande, est joint.**

The index to the information package lodged with the approval authority, which may be obtained on request, is attached.

See index to type-approval report

17. **Raison(s) de l'extension:** Not applicable  
Reason(s) for extension:

## Appendice

Appendix

### au certificat d'homologation par type N° E13\*10R06/01\*16037\*00

to type-approval certificate N° E13\*10R06/01\*16037\*00

### concernant l'homologation par type d'un sous ensemble électrique/électronique selon le Règlement N° 10.

concerning the type-approval of an electrical/electronic sub-assembly under UN Regulation N° 10.

- |   |  |   |                        |               |   |  |                  |                 |   |  |
|---|--|---|------------------------|---------------|---|--|------------------|-----------------|---|--|
| <b>1.</b>                                 | <b>Informations supplémentaires.</b><br>Additional information.  |   |                        |               |   |  |                  |                 |   |  |
| <b>1.1.</b>                               | <b>Tension nominale du système électrique [V]:</b><br>Electrical system rated voltage [V]:   | 12/24 V DC  |                        |               |   |  |                  |                 |   |  |
|   | <b>Masse:</b><br>Ground:   | Negative / <del>Positive</del> <sup>(2)</sup>   |                        |               |   |  |                  |                 |   |  |
| <b>1.2.</b>                               | <b>Ce SEEE peut être utilisé sur n'importe quel type de véhicule avec les restrictions suivantes:</b><br>This ESA can be used on any vehicle type with the following restrictions:   | Vehicles with 12/24 V DC voltage system   |                        |               |   |  |                  |                 |   |  |
| <b>1.2.1.</b>                             | <b>Conditions d'installation, s'il y a lieu:</b><br>Installation conditions, if any:   | Connect to the Battery  |                        |               |   |  |                  |                 |   |  |
| <b>1.3.</b>                               | <b>CE SEEE peut seulement être utilisé sur les types de véhicules suivants:</b><br>This ESA can be used only on the following vehicle types:   | Not applicable  |                        |               |   |  |                  |                 |   |  |
| <b>1.3.1.</b>                             | <b>Conditions d'installation, s'il y a lieu:</b><br>Installation conditions, if any:   | Not applicable  |                        |               |   |  |                  |                 |   |  |
| <b>1.4.</b>                               | <b>La (les) méthode(s) spécifique(s) d'essais utilisée(s) et les bandes de fréquences couvertes pour déterminer l'immunité étai(ent): (indiquez s'il vous plaît à partir de l'annexe 9 la méthode précise utilisée).</b><br>The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from annex 9). | <table border="0"> <tr> <td>Bulk current injection</td> <td>20 to 400 MHz</td> </tr> <tr> <td>ISO 11452-4, 4<sup>th</sup> edition 2011</td> <td></td> </tr> <tr> <td>Absorber chamber</td> <td>400 to 2000 MHz</td> </tr> <tr> <td>ISO 11452-2, 2<sup>nd</sup> edition 2004</td> <td></td> </tr> </table> | Bulk current injection | 20 to 400 MHz | ISO 11452-4, 4 <sup>th</sup> edition 2011 |  | Absorber chamber | 400 to 2000 MHz | ISO 11452-2, 2 <sup>nd</sup> edition 2004 |  |
| Bulk current injection                    | 20 to 400 MHz  |   |                        |               |   |  |                  |                 |   |  |
| ISO 11452-4, 4 <sup>th</sup> edition 2011 |  |   |                        |               |   |  |                  |                 |   |  |
| Absorber chamber                          | 400 to 2000 MHz  |   |                        |               |   |  |                  |                 |   |  |
| ISO 11452-2, 2 <sup>nd</sup> edition 2004 |  |   |                        |               |   |  |                  |                 |   |  |
| <b>1.5.</b>                               | <b>Laboratoire accrédité au titre de la norme ISO 17025 et reconnu par l'autorité d'homologation chargé d'effectuer les essais:</b><br>Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests:   | Not applicable  |                        |               |   |  |                  |                 |   |  |
| <b>2.</b>                                 | <b>Commentaires:</b><br>Remarks:   | None  |                        |               |   |  |                  |                 |   |  |



**Référence:** E13\*10R06/01\*16037\*00

**Annexes:** - Rapport Technique  
- Fiche de Renseignements du constructeur

Bertrange, le 09 novembre 2021

## Index du dossier d'homologation

Index to type-approval report

	<b>Numéro d'homologation:</b> Approval number:	E13*10R06/01*16037*00
	<b>Révision:</b> Revision:	00
	<b>Marque de fabrique ou de commerce:</b> Trade name or mark:	SANJO (for logo refer to Test Report)
	<b>Type:</b> Type:	RCE
1.	<b>Procès-verbal d'essai:</b> Test report:	N° 87-R10-2072/21-00
	- Test report:	Page 1 to 11
	- Technical informations:	Appendix L - Page 12 & 13
	- List of modifications:	Appendix 0 - Page 14
2.	<b>Dossier du constructeur:</b> Report of the manufacturer:	N° RCE-R10-00
	- Manufacturer's information document:	Page 1 to 7
3.	<b>Autres documents annexés:</b> Other documents annexed:	Not applicable
4.	<b>Date de délivrance de l'homologation initiale:</b> Date of issue of initial type approval:	09.11.2021
5.	<b>Date de la dernière délivrance de pages révisées:</b> Date of last issue of revised pages:	Not applicable
6.	<b>Date de la dernière délivrance d'une homologation révisée:</b> Date of last extension:	Not applicable

Type : RCE  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

## TEST REPORT

according to UN-Regulation

### Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility

No.: 10  
including  
No.: 06 series of amendments, suppl. 01

Previously Granted	
UN approval	: ----

- Structure of report:
- 0. General information
  - 1. Test object(s) and general test information
  - 2. Test minutes
  - 3. Remark concerning tested object(s)
  - 4. Appendices
  - 5. Statement of conformity

The Test Report shall be reproduced and published only in its entirety by the client. It may however be reproduced and published partially, but only with the written permission of the Technical Service.

Type : RCE  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

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0. General information

- 0.1. Trade mark or trade name of type : 
- 0.2. Manufacturer's name for the type of the ESA : RCE  
Version : Version 1: RCE140L  
Version 2: RCE170L
- 0.3. Name and address of manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.  
No. 258 Wuxing Avenue, Nandu Town, Liyang City,  
Jiangsu Province, China
- 0.4. Name and address of authorised representative, if any : Not applicable
- 0.5. No. of information document : RCE-R10-00  
date of issue : August 03, 2021  
date of last amendment : --

Type : RCE  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

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## 1. Test object(s) and general test information

### 1.1. Test object(s)

Identification no. : Not applicable  
Model : RCE/ Version 2: RCE170L  
Remark : Compressor refrigerator

### 1.2. General test information

1.2.1 Order issued by (if different from manufacturer) : Not applicable  
1.2.2 Test object received on : August 05, 2021  
1.2.3 Test date : August 05, 2021 to August 10, 2021  
1.2.4 Test site : Unilab (shanghai) Co., Ltd.- No. 1350, Lianxi Road, Pudong District, Shanghai  
1.2.5 Worst case configuration : Version 2 RCE170L has been selected as the test representative.  
The two versions with same main parts. Only different in the volume of the refrigerator  
1.2.6 Remark : The results of the test refer exclusively to the objects mentioned under point 1.1. of this report.

Type : RCE  
 Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

2. Test minutes

2.1. Test facilities : The measurement equipment used was in compliance with the test requirements.

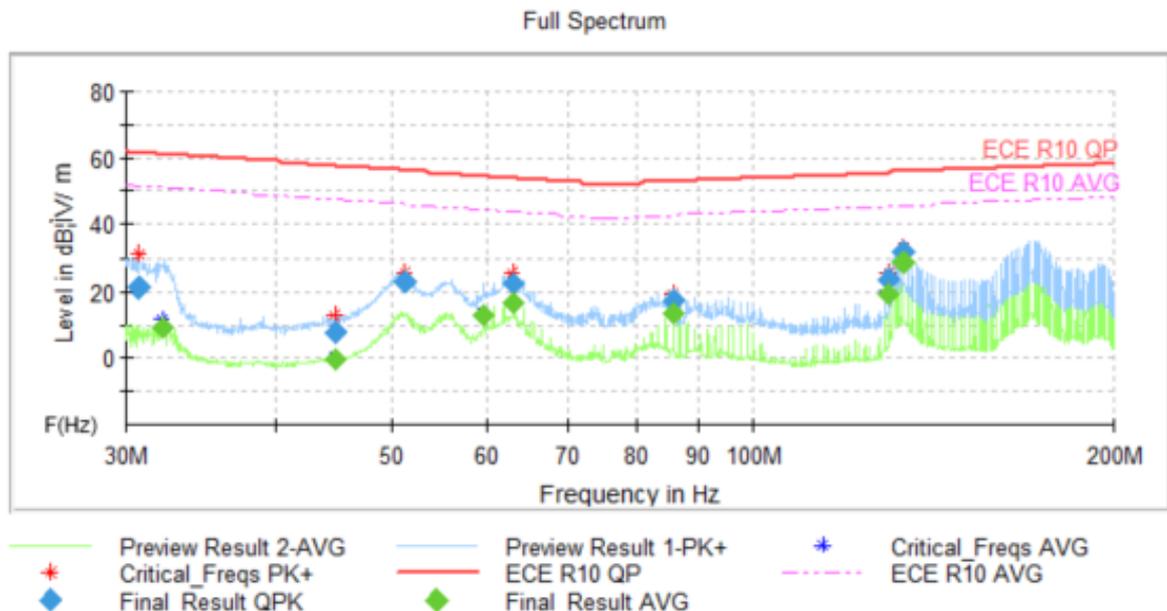
2.2. Technical information for the tested ESA : See Appendix L

2.3. Type approval tests conducted : Radiated narrowband electromagnetic emissions  
 Radiated broadband electromagnetic emissions  
 Immunity to electromagnetic radiation  
 Immunity to transient disturbances  
 Emission of transient conducted disturbances

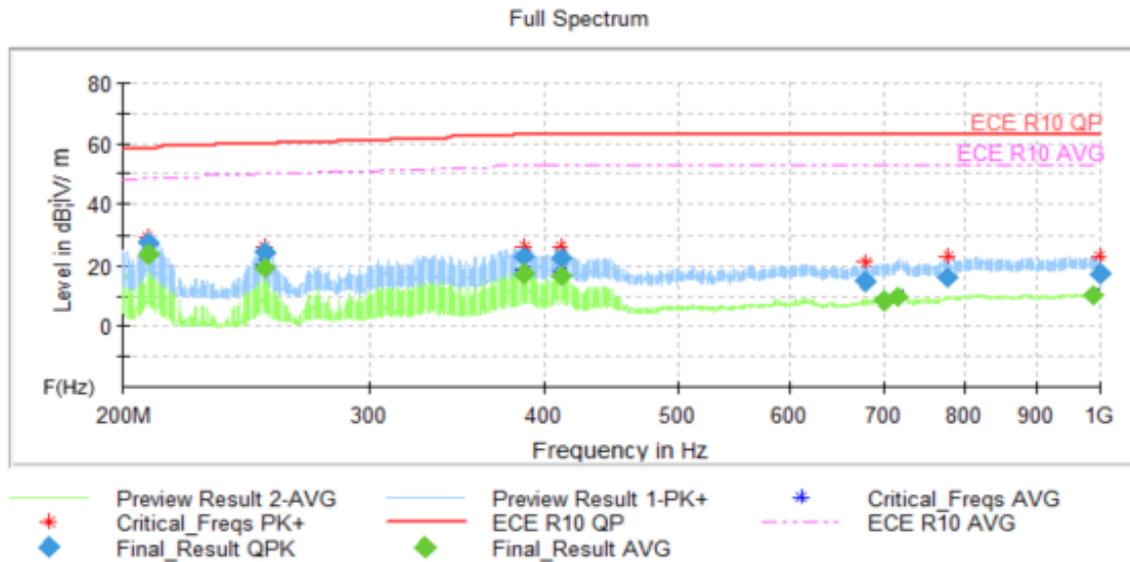
2.4. Test results : ~~The type has been examined according to the amendments mentioned in appendix O.~~  
 The performance of the ESA has been tested under 12/24V input modes.

2.4.1. Radiated narrowband and broadband electromagnetic emissions : Antenna position horizontal and vertical (Average detector and PK detector)

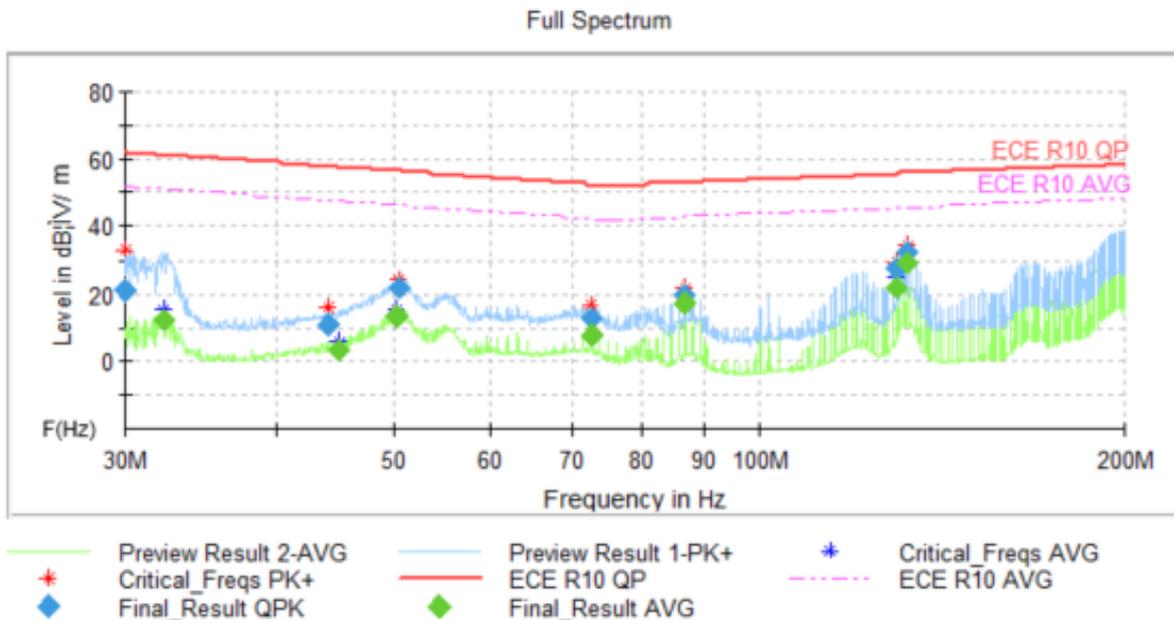
12V  
 Horizontal



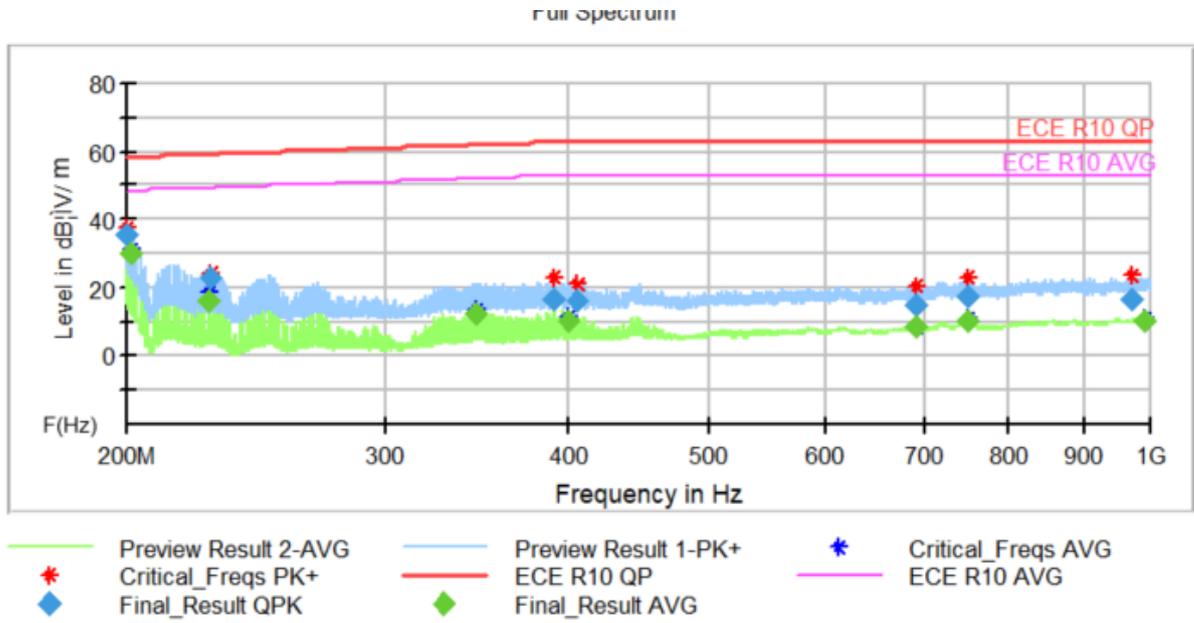
Type : RCE  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.



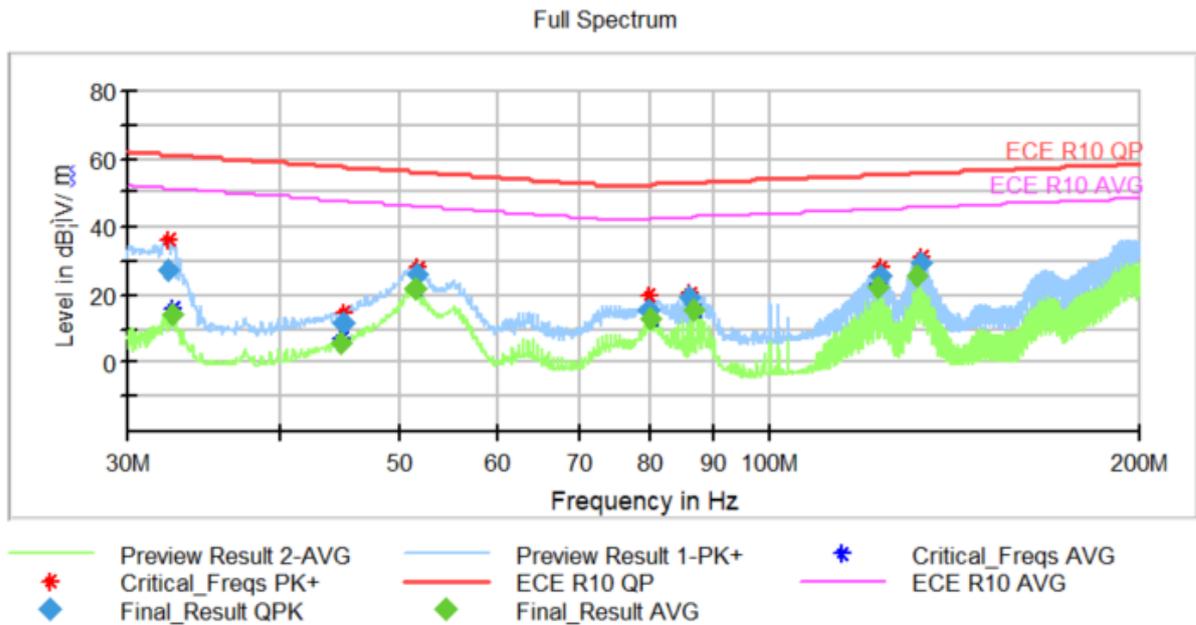
Vertical :



Type : RCE  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.

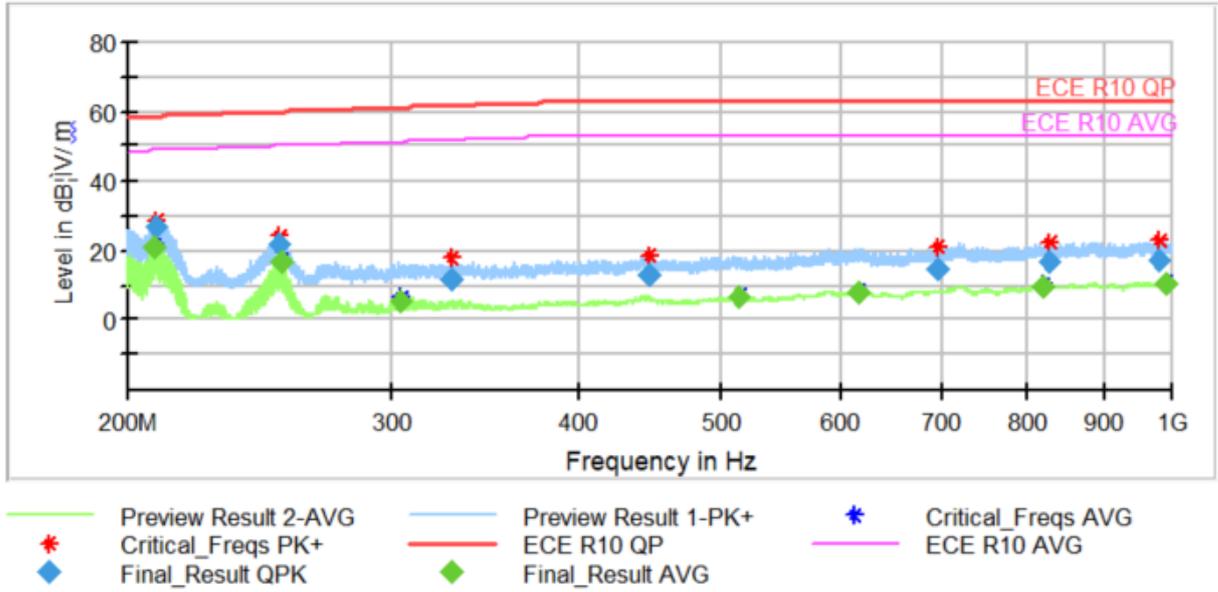


24V  
 Horizontal



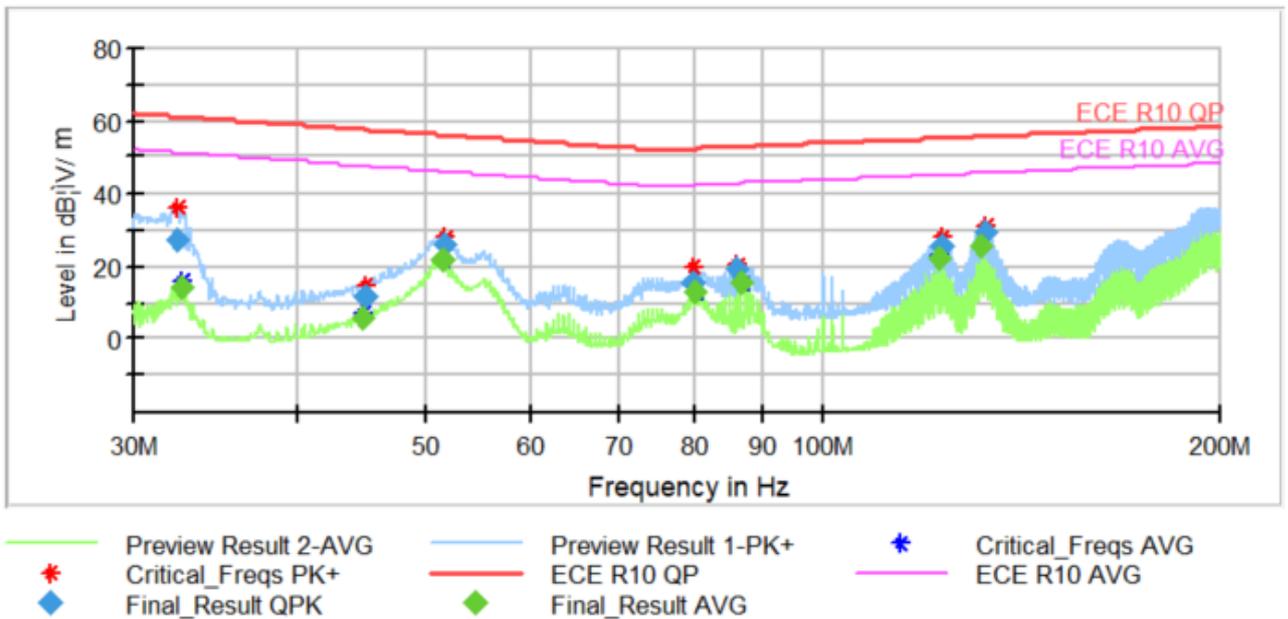
Type : RCE  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.

Full Spectrum

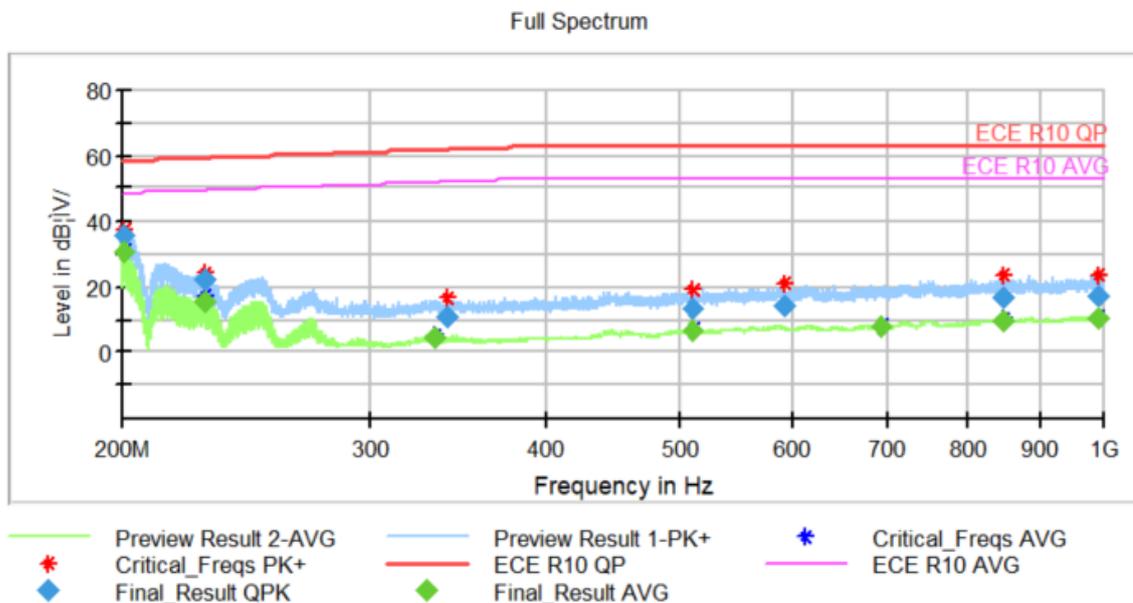


Vertical:

Full Spectrum



Type : RCE  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.



2.4.2. Immunity Test : ISO 11452-4, Fourth edition 2011  
 Bulk current injection testing method (from 20 to 400MHz)

ISO 11452-2 2nd edition: 2004  
 Free field testing method (from 400 MHz to 2000MHz)

Test method : Bulk current injection and absorber chamber test

Specified frequency range : 20 - 2000 MHz

Measurement result:  
 12V

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20~400	60mA	AM, 80%	150mm	---	Passed
400~800	30volts/m	AM, 80%	1 m	Vertical	Passed
800~2000	30volts/m	PM, 577µs	1 m	Vertical	Passed

Type : RCE  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.

24V

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20~400	60mA	AM, 80%	150mm	---	Passed
400~800	30volts/m	AM, 80%	1 m	Vertical	Passed
800~2000	30volts/m	PM, 577µs	1 m	Vertical	Passed

2.4.3. Immunity to transient disturbances

: The tests were conducted by the method according to ISO 7637-2 (second edition 2004) as described in Annex 10, and the functional status of the ESA after the tests complied with the levels shown in Table 2 of Paragraph 6.

Test pulse number	Immunity test level	Functional status for systems		
		Related to immunity-related functions	Not related to immunity-related functions	Test results
				12V
1	III	C	⊘	B
2a	III	B	⊘	B
2b	III	C	⊘	B
3a	III	A	⊘	A
3b	III	A	⊘	A
4	III	B	⊘	A

Test pulse number	Immunity test level	Functional status for systems		
		Related to immunity-related functions	Not related to immunity-related functions	Test results
				24V
1	III	C	⊘	B
2a	III	B	⊘	B
2b	III	C	⊘	C

**Type** : RCE  
**Manufacturer** : Jiangsu Sanjo Intelligent Technology Co., Ltd.

3a	III	A	⊘	A
3b	III	A	⊘	A
4	III	B	⊘	A

2.4.4. Emission of transient conducted : The tests were conducted by the method according to ISO 7637-2 (second edition 2004) as described in Annex 10, and the pulse amplitudes were within the limits specified in Table 1 of Paragraph 6.

Polarity of pulse amplitude	Maximum allowed pulse amplitude for vehicles with systems	Test results	
		Slow pulses	Fast pulses
	12V	12V	12V
Positive	+75	1.29	0.11
Negative	-100	-15.60	-11.25

Polarity of pulse amplitude	Maximum allowed pulse amplitude for vehicles with systems	Test results	
		Slow pulses	Fast pulses
	24V	24V	24V
Positive	+150	2.11	0.27
Negative	-450	-27.14	-21.88

2.4.5. Markings : The approval mark is marked clearly legible and indelible on the housing of the main unit.

**2.5. Variants and components** : Not applicable

Type : RCE  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

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### 3. Remark concerning tested object(s)

All versions of the ESA type as stated in the information document are covered with the tested version(s) and test object(s) respectively.

### 4. Appendices

**L Technical information about the electrical/electronic sub-assembly (ESA) according to Annex 3B of the communication concerning the UN-type approval**

**0 List of modifications**

Information folder No. : RCE-R10-00 ( 7 pages)

### 5. Statement of conformity

The point 0.5 mentioned information folder and the type described in that comply with the requirements mentioned on page 1.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (see point 1.2).

The mentioned test results refer to the vehicle(s)/object(s) described under point 1.1 of this report.

Engineering Center Shanghai, September 15, 2021  
CG



Cherry Gu  
Expert Technical Service

**Type** : RCE  
**Manufacturer** : Jiangsu Sanjo Intelligent Technology Co., Ltd.

**Technical information about the electrical/electronic sub-assembly (ESA) Appendix L**  
**according to Annex 3B of the communication concerning the UN-type approval**

- |   |  |
|---|--|
| <b>1. Make (trade name of manufacturer)</b>   | :   |
| <b>2. Type and general commercial description(s)</b>  | : RCE<br>Compressor refrigerator   |
| <b>3. Means of identification of type, if marked on the vehicle/component/separate technical unit</b>                             | : Version 1: RCE140L<br>Version 2: RCE170L   |
| <b>3.1. Location of that marking</b>  | : Label affixed on the housing of the product, refer to information folder   |
| <b>4. Category of vehicle</b>   | : Not applicable   |
| <b>5. Name and address of manufacturer</b>  | : Jiangsu Sanjo Intelligent Technology Co., Ltd.<br>No. 258 Wuxing Avenue, Nandu Town, Liyang City,<br>Jiangsu Province, China |
| <b>6. In the case of components and separate technical units, location and method of affixing of the approval mark</b>            | : Label affixed on the housing of the product, refer to information folder   |
| <b>7. Address(es) of the assembly plant(s)</b>  | : No. 258 Wuxing Avenue, Nandu Town, Liyang City,<br>Jiangsu Province, China   |
| <b>8. Additional information</b>  | : See appendix below   |
| <b>9. Technical Service responsible for carrying out the tests</b>  | : TÜV Rheinland Luxemburg S.à r.l.<br>2-4, rue Edmond Reuter<br>L-5326 Contern   |
| <b>A</b>  | : September 15, 2021   |
| <b>11. No. of test report</b>   | : 87-R10-2072/21-00  |
| <b>12. Remarks (if any)</b>   | : See appendix below   |
| <b>16. The index to the information package lodged with the Approval authority, which may be obtained on request, is attached</b> | : Not applicable   |
| <b>17. Reasons for extension</b>  | : <del>See information folder (approval history)</del> not applicable  |

Type : RCE  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

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**Appendix to type-approval communication form No. E13\*10R06/01\*XXXX\*00  
concerning the type-approval of an electrical/electronic sub-assembly under Regulation  
No. 10**

**1. Additional information**

- 1.1. Electrical system rated voltage : 12/24V DC, pos./neg. ground
- 1.2. This ESA can be used on any : vehicles with 12/24V DC voltage system  
vehicle type with the following  
restrictions
- 1.2.1. Installation conditions, if any : Connect to the Battery
- 1.3. This ESA can be used only on : Not applicable  
the following vehicle types
- 1.3.1. Installation conditions, if any : Not applicable
- 1.4. The specific test method(s) used : ISO 11452-4, Fourth edition 2011  
and the frequency ranges Bulk current injection testing method (from 20 to  
covered 400MHz)  
to determine immunity were ISO 11452-2 2nd edition: 2004  
(please specify precise method Free field testing method (from 400 MHz to 2000MHz)  
used from Annex 9)
- 1.5. Laboratory accredited to ISO : Not applicable  
17025 and recognized by the  
Approval Authority responsible  
for carrying out the tests
- 2. Remarks** : Not applicable

Type : RCE  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

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List of modifications

Appendix 0

Correction of : --

Modification of : --

Addition of : --

Deletion of : --

<b>Content</b>	
<b>DOCUMENT</b>	<b>PAGE</b>
Technical description	2
Photo of the ESA	3-4
Photo of the PCB	5
Electric Circuit Diagram	6
Bill of materials	6
Label	7

INFORMATION DOCUMENT FOR TYPE-APPROVAL OF AN ~~ELECTRIC~~/ELECTRONIC SUB-  
ASSEMBLY WITH RESPECT TO ELECTROMAGNETIC COMPATIBILITY ACCORDING ANNEX 2B OF  
UN-R10.06

- 1 Make (trade name of the manufacturer) : 
- 2 Type and general commercial description(s) : Type: RCE  
Commercial description: Compressor refrigerator  
Version : Version 1: RCE140L  
Version 2: RCE170L
- 3 Means of identification of type, if marked on the component/separate technical unit<sup>1</sup> : Same as item 2 versions
- 3.1 Location of that marking : Label affixed on the housing of the product
- 4 Name and address of the manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.  
No. 258 Wuxing Avenue, Nandu Town, Liyang City,  
Jiangsu Province, China  
Name and address of authorized representative, if any : N.A
- 5 In the case of components and separate technical units, location and method of affixing of the approval mark : Label affixed on the housing of the product
- 6 Address(es) of assembly plant(s) : Jiangsu Sanjo Intelligent Technology Co., Ltd.  
No. 258 Wuxing Avenue, Nandu Town, Liyang City,  
Jiangsu Province, China
- 7 This ESA shall be approved as a : Component / ~~STU~~<sup>2</sup>
- 8 Any restrictions of use and conditions for fitting : Connect to the Battery
- 9 Electrical system rated voltage : 12V/24V, ~~positive~~/negative<sup>2</sup> ground.

<sup>1</sup> If the means of identification of type contains characters not relevant to describe the component or separate technical unit types covered by this information document, such characters shall be represented in the documentation by the symbol "?" (e.g. ABC??123??).

<sup>2</sup> Delete where not applicable.

Only applicable for charging systems: : Not applicable

10. Charger: on board/external
11. Charging current: direct current/alternating current
12. Maximal nominal current (in each mode if necessary)
13. Nominal charging voltage
14. Basic ESA interface functions: ex. L1/L2/L3/N/PE/control pilot
15. Minimum Rsce value

**Photo of the ESA**

**Front View**

RCE140L:



RCE170L:



**Rear View**

RCE140L:



RCE170L



**Inside View**

RCE170L:

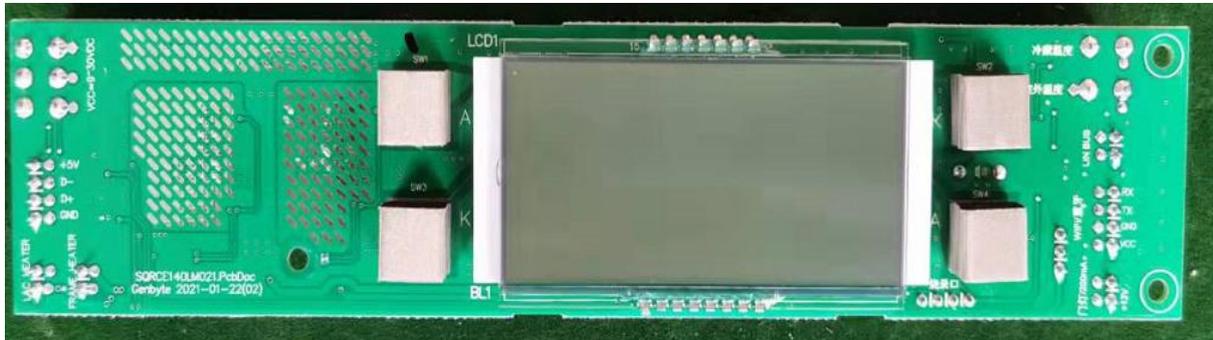


RCE140L:

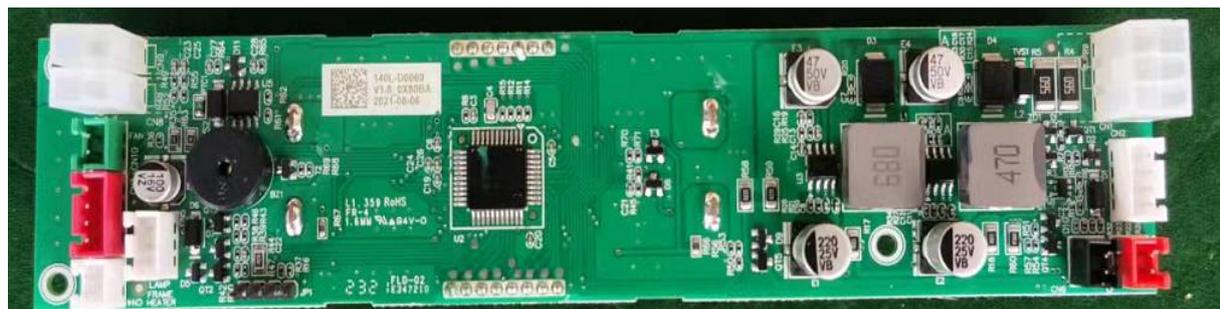


Photo of the PCB

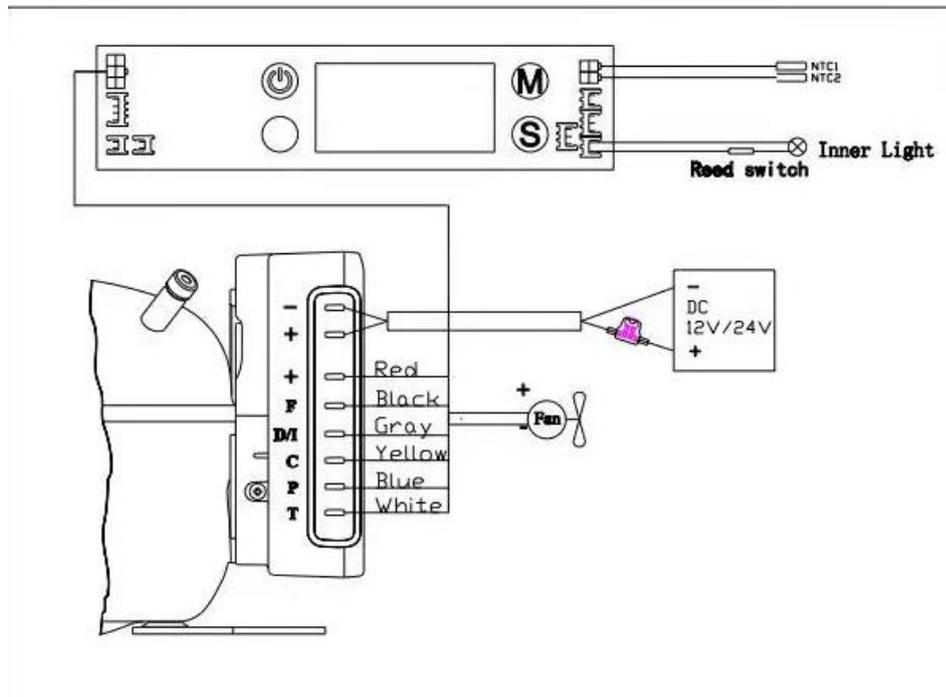
Front:



Back:



**Electric Circuit Diagram**



**Bill of materials**

Part number	Description	Quantity
Motor-Compressor	1.BD50F 2.BD80CN 3.ECV40 4.ECV60	1
Compressor control unit	1.10N0650 2.11212A 3.101N0212	1
FAN motor	D12BM-12	1
DC supply cord	300/300V	1
6Pin wire	300/300V	1
Operating board	FLD	1
LED board	FLD	1
Box cavity shell	1.PP; 2.Iron sheet	1

**Label:**

**RCE140L**

Model	RCE140L			
Serial	212700002			
Cold Volume:	113L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	28L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	6.93A at DC 12V	
Refrigerant :	R600A/0.035kg		4.06A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

Model	RCE140L			
Serial	212700002			
Cold Volume:	113L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	28L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	4.08A at DC 12V	
Refrigerant :	R290A/0.03kg		1.84A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

Model	RCE140L			
Serial	212700002			
Cold Volume:	113L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	28L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	6.41A at DC 12V	
Refrigerant :	R1234yf/0.075kg		2.70A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

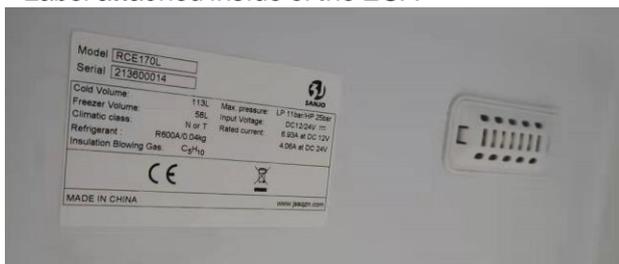
**RCE170L**

Model	RCE170L			
Serial	212700002			
Cold Volume:	113L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	58L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	6.93A at DC 12V	
Refrigerant :	R600A/0.04kg		4.06A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

Model	RCE170L			
Serial	212700002			
Cold Volume:	113L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	58L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	6.41A at DC 12V	
Refrigerant :	R1234yf/0.085kg		2.70A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

Model	RCE170L			
Serial	212700002			
Cold Volume:	113L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	58L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	4.08A at DC 12V	
Refrigerant :	R290A/0.035kg		1.84A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

Label attached inside of the ESA





**Référence:** E13\*10R06/01\*16038\*00

**Annexes:** - Rapport Technique  
- Fiche de Renseignements du constructeur

Bertrange, le 03 novembre 2021

**Communication concernant:**<sup>(2)</sup>  
Communication concerning:



- **la délivrance d'une homologation**  
approval granted  
- **l'extension d'homologation**  
approval extended  
- **le refus d'homologation**  
approval refused  
- **le retrait d'homologation**  
approval withdrawn  
- **l'arrêt définitif de la production**  
production definitely discontinued

**d'un type de sous-ensemble électrique/électronique<sup>(2)</sup> en ce qui concerne le Règlement N° 10**  
of a type of electrical/electronic sub-assembly with regard to Regulation N° 10

**Numéro d'homologation par type:**  
Approval number:

E13\*10R06/01\*16038\*00

**Marque d'homologation:**  
Approval mark:

 10R - 06 16038

- Fabricant: (marque commerciale du constructeur):**  
Make (trade name of manufacturer): SANJO (for logo refer to Test Report)
- Type:**  
Type: RCN
  
- Dénomination(s) commerciale(s) générale(s):**  
General commercial description(s): Compressor refrigerator

<b>3.</b>	<b>Moyens d'identification du type, s'ils sont marqués sur le véhicule / composant / entité technique<sup>(2)</sup>:</b> Means of identification of type, if marked on the vehicle / component / separate technical unit <sup>(2)</sup> :	Version 1: RCN90L Version 2: RCN150L
<b>3.1.</b>	<b>Emplacement de ce marquage:</b> Location of that marking:	Label affixed on the housing of the product
<b>4.</b>	<b>Catégorie du véhicule:</b> Category of vehicle:	Not applicable
<b>5.</b>	<b>Nom et adresse du constructeur:</b> Name and address of manufacturer:	Jiangsu Sanjo Intelligent Technology Co., Ltd. No. 258 Wuxing Avenue, Nandu Town, Liyang City, Jiangsu Province, China
<b>6.</b>	<b>Dans le cas de composants ou d'entités techniques, emplacement et procédé de fixation de la marque de réception CEE:</b> In the case of components and separate technical units, location and method of affixing of the ECE approval mark:	Label affixed on the housing of the product
<b>7.</b>	<b>Adresse(s) de l' (des) usine(s) d'assemblage:</b> Address(es) of assembly plant(s):	Jiangsu Sanjo Intelligent Technology Co., Ltd. No. 258 Wuxing Avenue, Nandu Town, Liyang City, Jiangsu Province, China
<b>8.</b>	<b>Informations supplémentaires (s'il y a lieu):</b> Additional informations (where applicable):	See appendix below
<b>9.</b>	<b>Service technique responsable de l'exécution des essais:</b> Technical service responsible for carrying out the tests:	TÜV Rheinland Luxemburg S.à r.l. 2-4, rue Edmond Reuter L-5326 Contern
<b>10.</b>	<b>Date du rapport d'essai:</b> Date of test report:	15.09.2021
<b>11.</b>	<b>Numéro du rapport d'essai:</b> Number of test report:	87-R10-2073/21-00
<b>12.</b>	<b>Remarques (s'il y a lieu):</b> Remarks (if any):	See appendix below

13. **Lieu:** Bertrange  
Place:

14. **Date:** 03 novembre 2021  
Date:

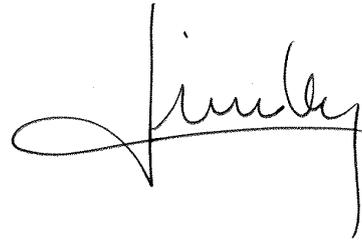
15. **Signature:**  
Signature:

**Pour le Ministre de la Mobilité  
et des Travaux publics**



**Alain DISVISCOUR**  
Conseiller

**Pour la SNCH**



**Laurent LINDEN**  
Directeur opérationnel



16. **L'index de l'ensemble des renseignements déposé chez l'autorité de réception, qui peut être obtenu sur demande, est joint.**

The index to the information package lodged with the approval authority, which may be obtained on request, is attached.

See index to type-approval report

17. **Raison(s) de l'extension:** Not applicable  
Reason(s) for extension:

<sup>2</sup> **Biffer la mention inutile**  
Strike out what does not apply

## Appendice

Appendix

### au certificat d'homologation par type N° E13\*10R06/01\*16038\*00

to type-approval certificate N° E13\*10R06/01\*16038\*00

### concernant l'homologation par type d'un sous ensemble électrique/électronique selon le Règlement N° 10.

concerning the type-approval of an electrical/electronic sub-assembly under UN Regulation N° 10.

- |               |  |  |
|---------------|--|--|
| <b>1.</b>     | <b>Informations supplémentaires.</b><br>Additional information.  |  |
| <b>1.1.</b>   | <b>Tension nominale du système électrique [V]:</b><br>Electrical system rated voltage [V]:   | 12/24 V DC   |
|               | <b>Masse:</b><br>Ground:   | Negative / <del>Positive</del> <sup>(2)</sup>  |
| <b>1.2.</b>   | <b>Ce SEEE peut être utilisé sur n'importe quel type de véhicule avec les restrictions suivantes:</b><br>This ESA can be used on any vehicle type with the following restrictions:   | Vehicles with 12/24 V DC voltage system  |
| <b>1.2.1.</b> | <b>Conditions d'installation, s'il y a lieu:</b><br>Installation conditions, if any:   | Connect to the Battery   |
| <b>1.3.</b>   | <b>CE SEEE peut seulement être utilisé sur les types de véhicules suivants:</b><br>This ESA can be used only on the following vehicle types:   | Not applicable   |
| <b>1.3.1.</b> | <b>Conditions d'installation, s'il y a lieu:</b><br>Installation conditions, if any:   | Not applicable   |
| <b>1.4.</b>   | <b>La (les) méthode(s) spécifique(s) d'essais utilisée(s) et les bandes de fréquences couvertes pour déterminer l'immunité étai(ent): (indiquez s'il vous plaît à partir de l'annexe 9 la méthode précise utilisée).</b><br>The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from annex 9). | Bulk current injection                      20 to 400 MHz<br>ISO 11452-4, 4 <sup>th</sup> edition 2011<br>Absorber chamber                              400 to 2000 MHz<br>ISO 11452-2, 2 <sup>nd</sup> edition 2004 |
| <b>1.5.</b>   | <b>Laboratoire accrédité au titre de la norme ISO 17025 et reconnu par l'autorité d'homologation chargé d'effectuer les essais:</b><br>Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests:   | Not applicable   |
| <b>2.</b>     | <b>Commentaires:</b><br>Remarks:   | None   |



**Référence:** E13\*10R06/01\*16038\*00

**Annexes:** - Rapport Technique  
- Fiche de Renseignements du constructeur

Bertrange, le 03 novembre 2021

## Index du dossier d'homologation

Index to type-approval report

	<b>Numéro d'homologation:</b> Approval number:	E13*10R06/01*16038*00
	<b>Révision:</b> Revision:	00
	<b>Marque de fabrique ou de commerce:</b> Trade name or mark:	<i>SANJO (for logo refer to Test Report)</i>
	<b>Type:</b> Type:	<i>RCN</i>
<b>1.</b>	<b>Procès-verbal d'essai:</b> Test report:	N° 87-R10-2073/21-00
	- Test report:	Page 1 to 11
	- Technical informations:	Appendix L - Page 12 & 13
	- List of modifications:	Appendix 0 - Page 14
<b>2.</b>	<b>Dossier du constructeur:</b> Report of the manufacturer:	N° RCN-R10-00
	- Manufacturer's information document:	Page 1 to 8
<b>3.</b>	<b>Autres documents annexés:</b> Other documents annexed:	Not applicable
<b>4.</b>	<b>Date de délivrance de l'homologation initiale:</b> Date of issue of initial type approval:	03.11.2021
<b>5.</b>	<b>Date de la dernière délivrance de pages révisées:</b> Date of last issue of revised pages:	Not applicable
<b>6.</b>	<b>Date de la dernière délivrance d'une homologation révisée:</b> Date of last extension:	Not applicable

Type : RCN  
 Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

## TEST REPORT

according to UN-Regulation

### Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility

No.: **10**  
 including  
 No.: **06 series of amendments, suppl. 01**

Previously Granted	
UN approval	: ----

- Structure of report:
- 0. General information
  - 1. Test object(s) and general test information
  - 2. Test minutes
  - 3. Remark concerning tested object(s)
  - 4. Appendices
  - 5. Statement of conformity

The Test Report shall be reproduced and published only in it's entirety by the client. It may however be reproduced and published partially, but only with the written permission of the Technical Service.

Type : RCN  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

---

0. General information

- 0.1. Trade mark or trade name of type : 
- 0.2. Manufacturer's name for the type of the ESA : RCN  
Version : Version 1: RCN90L  
Version 2: RCN150L
- 0.3. Name and address of manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.  
No. 258 Wuxing Avenue, Nandu Town, Liyang City,  
Jiangsu Province, China
- 0.4. Name and address of authorised representative, if any : Not applicable
- 0.5. No. of information document : RCN-R10-00  
date of issue : August 03, 2021  
date of last amendment : --

Type : RCN  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

---

## 1. Test object(s) and general test information

### 1.1. Test object(s)

Identification no. : Not applicable  
Model : RCN/ Version 2: RCN150L  
Remark : Compressor refrigerator

### 1.2. General test information

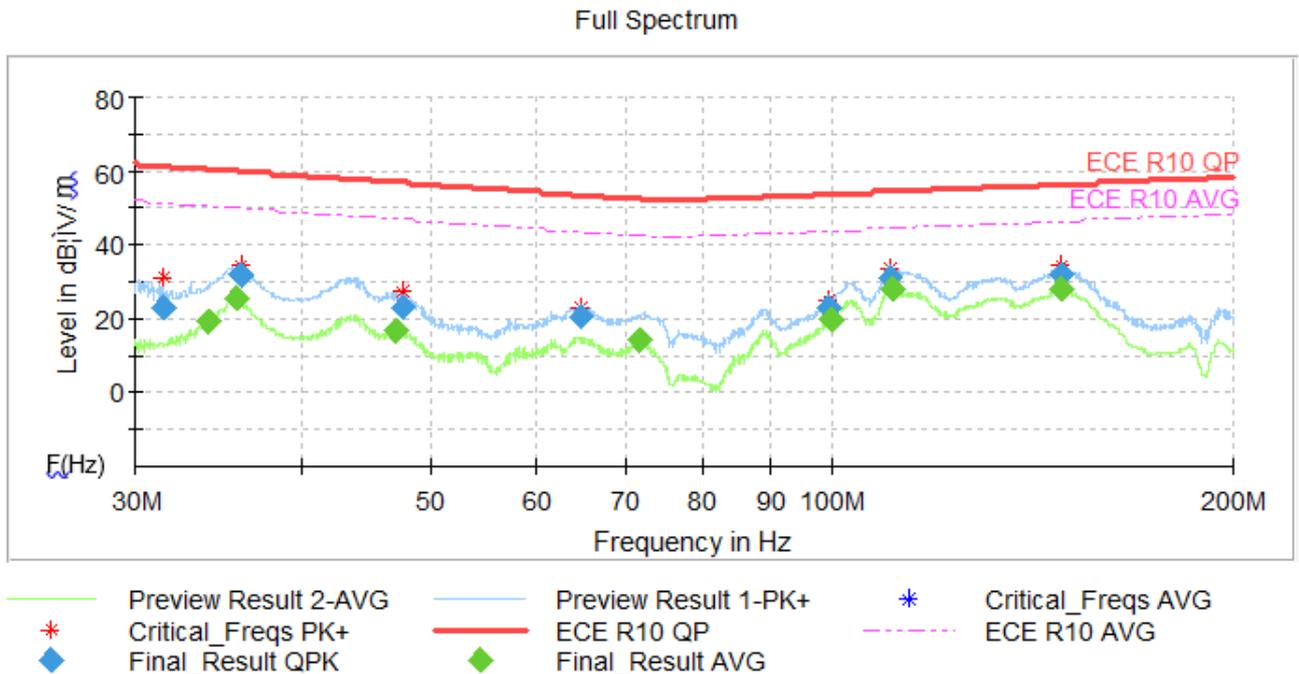
1.2.1 Order issued by (if different from manufacturer) : Not applicable  
1.2.2 Test object received on : August 05, 2021  
1.2.3 Test date : August 05, 2021 to August 10, 2021  
1.2.4 Test site : Unilab (shanghai) Co., Ltd.- No. 1350, Lianxi Road, Pudong District, Shanghai  
1.2.5 Worst case configuration : Version 2 RCN150L has been selected as the test representative.  
The two versions with same main parts. Only different in the volume of the refrigerator  
1.2.6 Remark : The results of the test refer exclusively to the objects mentioned under point 1.1. of this report.

Type : RCN  
 Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

2. Test minutes

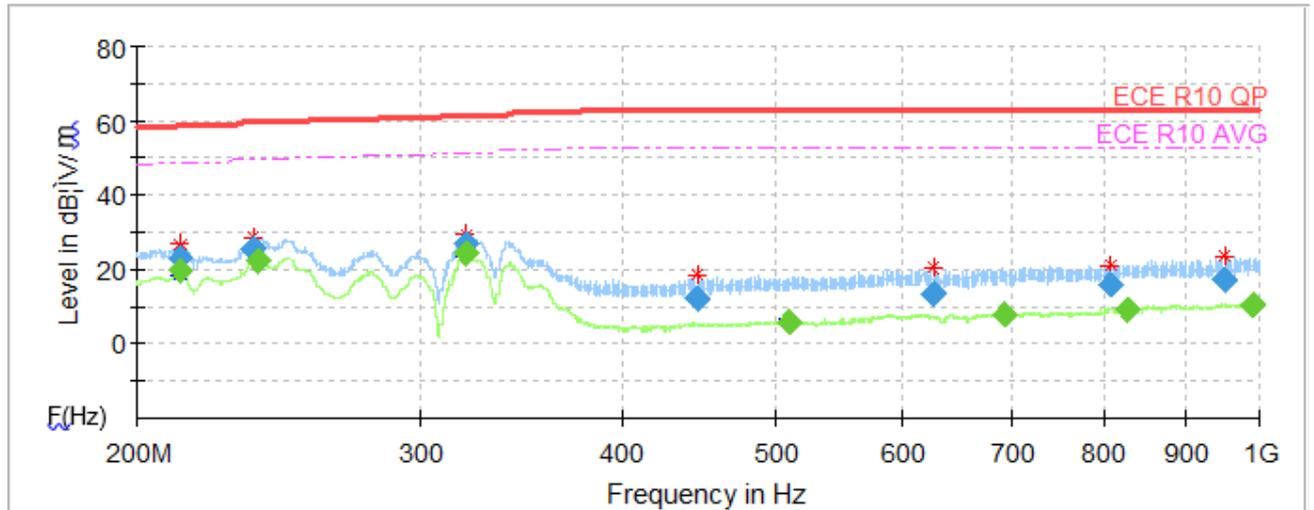
- 2.1. Test facilities : The measurement equipment used was in compliance with the test requirements.
- 2.2. Technical information for the tested ESA : See Appendix L
- 2.3. Type approval tests conducted : Radiated narrowband electromagnetic emissions  
 Radiated broadband electromagnetic emissions  
 Immunity to electromagnetic radiation  
 Immunity to transient disturbances  
 Emission of transient conducted disturbances
- 2.4. Test results : ~~The type has been examined according to the amendments mentioned in appendix O.~~  
 The performance of the ESA has been tested under 12/24V input modes.
- 2.4.1. Radiated narrowband and broadband electromagnetic emissions : Antenna position horizontal and vertical (Average detector and PK detector)

12V  
 Horizontal



Type : RCN  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.

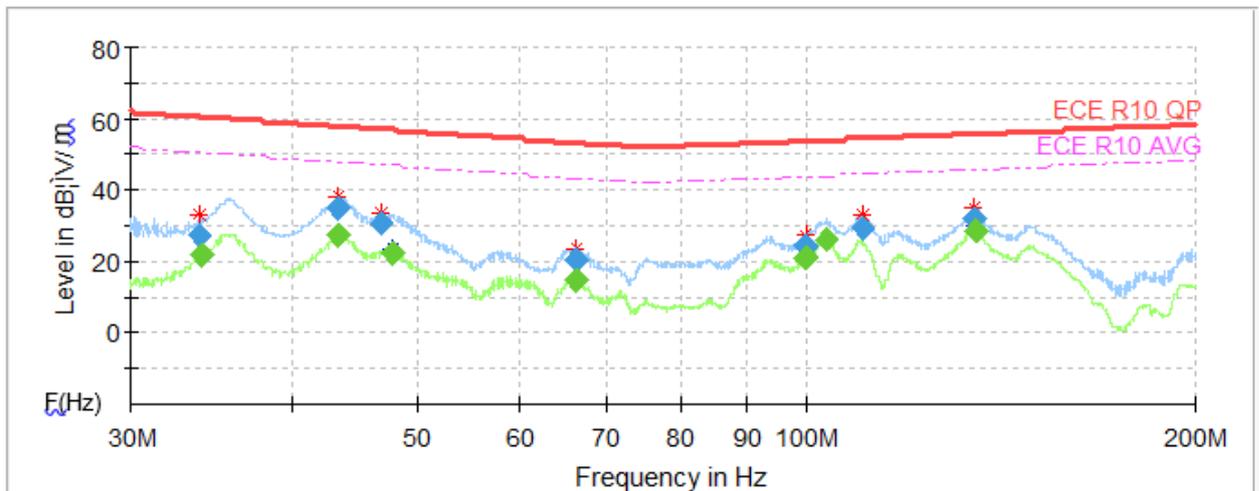
Full Spectrum



— Preview Result 2-AVG     — Preview Result 1-PK+     \* Critical\_Freqs AVG  
— ECE R10 QP     ◆ Final\_Result AVG     ◆ Final\_Result QPK  
- - - ECE R10 AVG

Vertical :

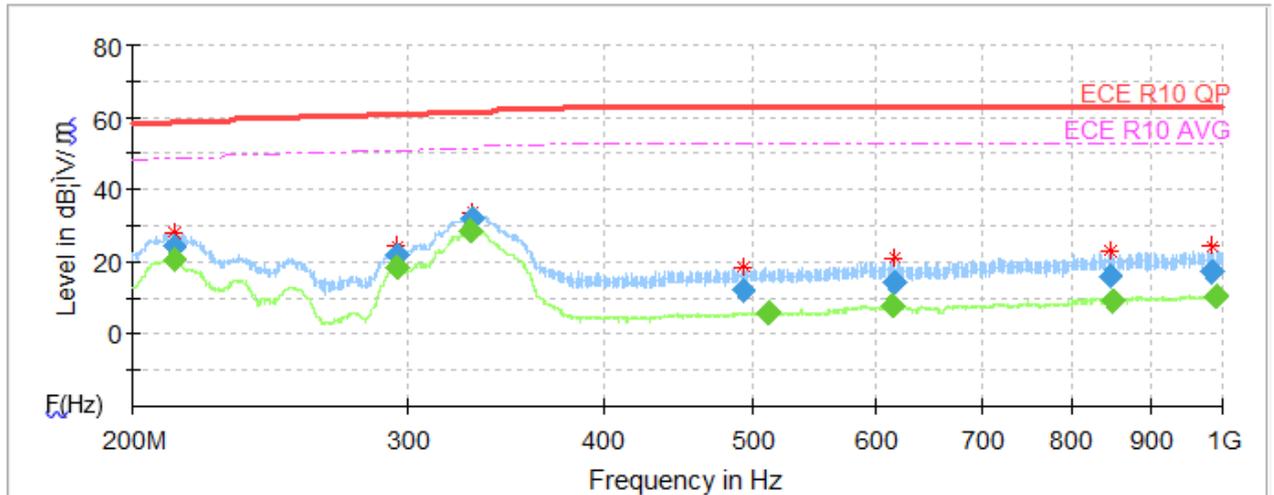
Full Spectrum



— Preview Result 2-AVG     — Preview Result 1-PK+     \* Critical\_Freqs AVG  
— ECE R10 QP     ◆ Final\_Result AVG     ◆ Final\_Result QPK  
- - - ECE R10 AVG

Type : RCN  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.

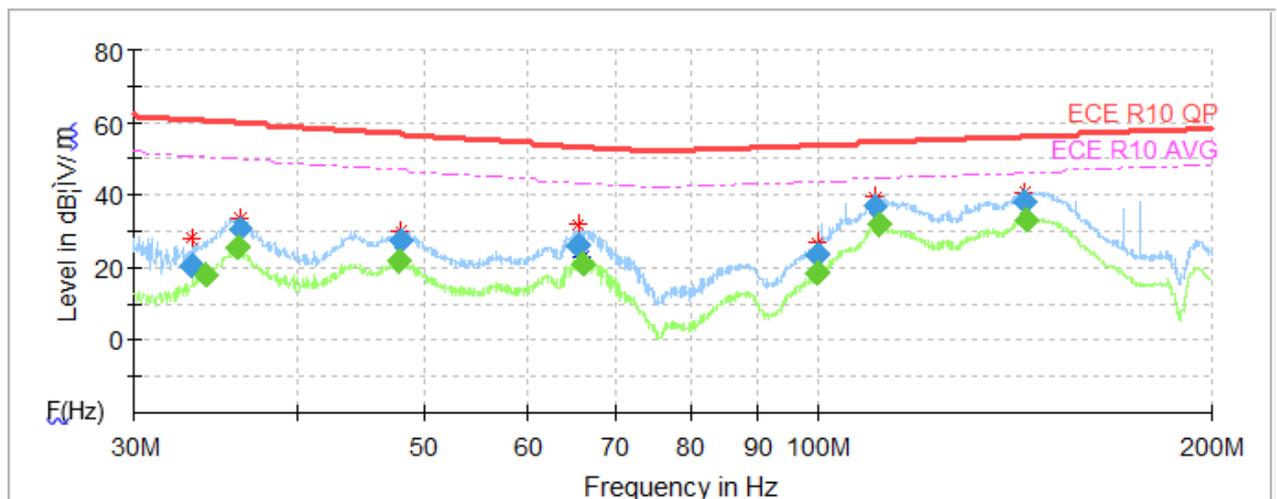
Full Spectrum



- Preview Result 2-AVG
- Preview Result 1-PK+
- \* Critical\_Freqs PK+
- ECE R10 QP
- - - ECE R10 AVG
- ◆ Final\_Result QPK
- ◆ Final\_Result AVG

24V  
 Horizontal

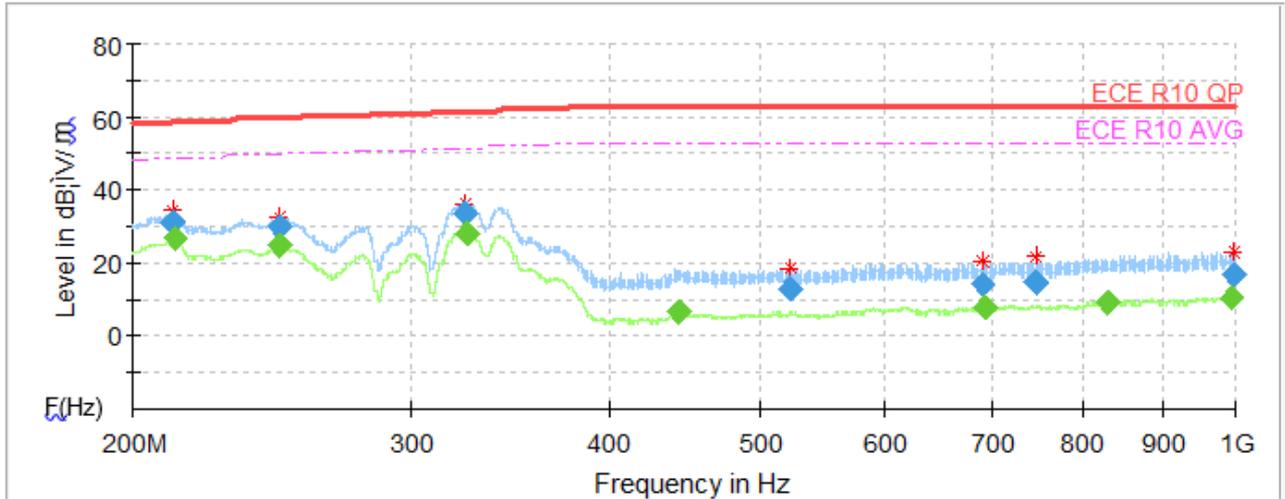
Full Spectrum



- Preview Result 2-AVG
- Preview Result 1-PK+
- \* Critical\_Freqs PK+
- ECE R10 QP
- - - ECE R10 AVG
- ◆ Final\_Result QPK
- ◆ Final\_Result AVG

Type : RCN  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.

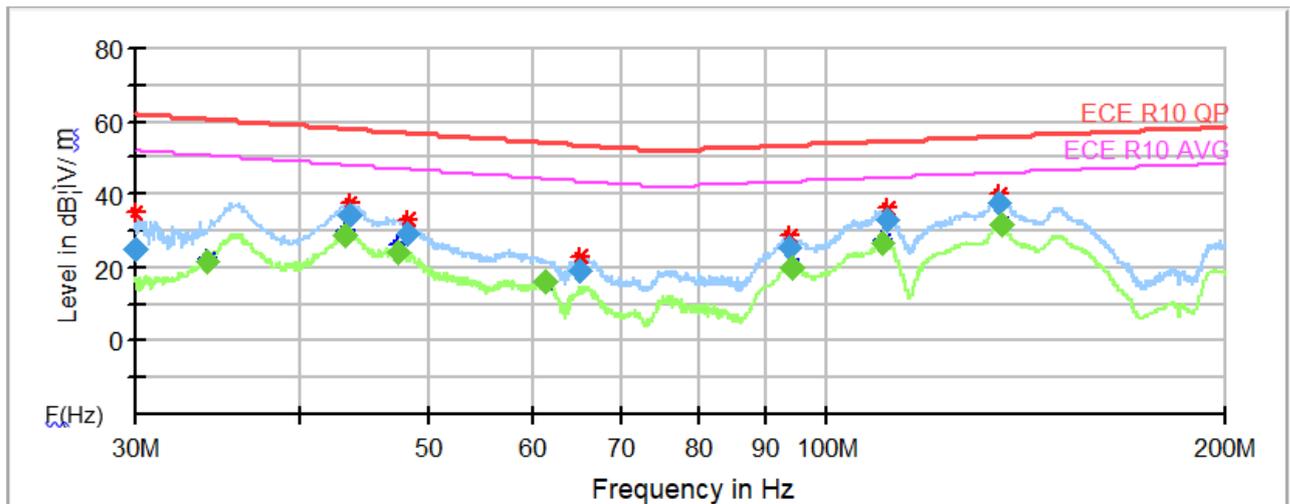
Full Spectrum



◆ Preview Result 2-AVG      — Preview Result 1-PK+      \* Critical\_Freqs AVG  
\* Critical\_Freqs PK+      — ECE R10 QP      - - - ECE R10 AVG  
◆ Final\_Result QPK      ◆ Final\_Result AVG

Vertical:

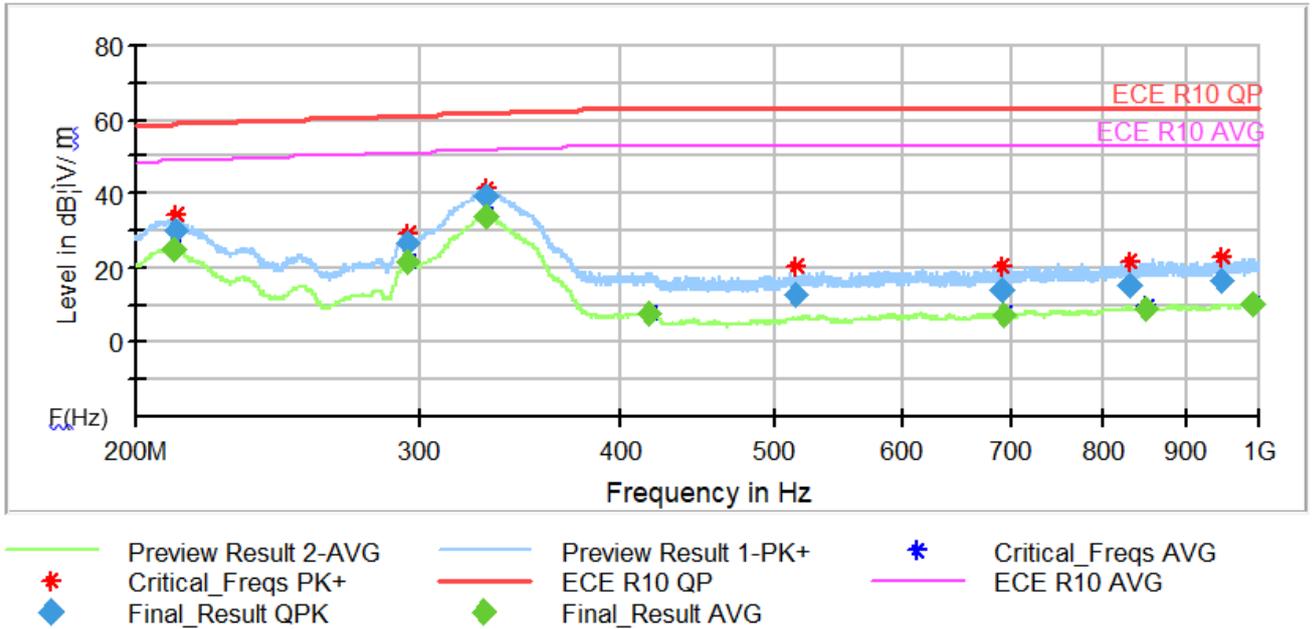
Full Spectrum



◆ Preview Result 2-AVG      — Preview Result 1-PK+      \* Critical\_Freqs AVG  
\* Critical\_Freqs PK+      — ECE R10 QP      - - - ECE R10 AVG  
◆ Final\_Result QPK      ◆ Final\_Result AVG

Type : RCN  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.

Full Spectrum



2.4.2. Immunity Test

: ISO 11452-4, Fourth edition 2011  
 Bulk current injection testing method (from 20 to 400MHz)

ISO 11452-2 2nd edition: 2004  
 Free field testing method (from 400 MHz to 2000MHz)

Test method : Bulk current injection and absorber chamber test

Specified frequency range : 20 - 2000 MHz

Measurement result:  
 12V

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20~400	60mA	AM, 80%	150mm	---	Passed
400~800	30volts/m	AM, 80%	1 m	Vertical	Passed
800~2000	30volts/m	PM, 577µs	1 m	Vertical	Passed

Type : RCN  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.

24V

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20~400	60mA	AM, 80%	150mm	---	Passed
400~800	30volts/m	AM, 80%	1 m	Vertical	Passed
800~2000	30volts/m	PM, 577µs	1 m	Vertical	Passed

2.4.3. Immunity to transient disturbances

: The tests were conducted by the method according to ISO 7637-2 (second edition 2004) as described in Annex 10, and the functional status of the ESA after the tests complied with the levels shown in Table 2 of Paragraph 6.

Test pulse number	Immunity test level	Functional status for systems		
		Related to immunity-related functions	Not related to immunity-related functions	Test results
				12V
1	III	C	⊘	B
2a	III	B	⊘	A
2b	III	C	⊘	B
3a	III	A	⊘	A
3b	III	A	⊘	A
4	III	B	⊘	A

Test pulse number	Immunity test level	Functional status for systems		
		Related to immunity-related functions	Not related to immunity-related functions	Test results
				24V
1	III	C	⊘	B

Type : RCN  
 Manufacturer : Jiangu Sanjo Intelligent Technology Co., Ltd.

2a	III	B	⊘	A
2b	III	C	⊘	B
3a	III	A	⊘	A
3b	III	A	⊘	A
4	III	B	⊘	B

2.4.4. Emission of transient conducted : The tests were conducted by the method according to ISO 7637-2 (second edition 2004) as described in Annex 10, and the pulse amplitudes were within the limits specified in Table 1 of Paragraph 6.

Polarity of pulse amplitude	Maximum allowed pulse amplitude for vehicles with systems	Test results	
		Slow pulses	Fast pulses
	12V	12V	12V
Positive	+75	8.49	8.42
Negative	-100	-13.47	-11.94

Polarity of pulse amplitude	Maximum allowed pulse amplitude for vehicles with systems	Test results	
		Slow pulses	Fast pulses
	24V	24V	24V
Positive	+150	5.75	16.02
Negative	-450	-24.46	-22.18

2.4.5. Markings : The approval mark is marked clearly legible and indelible on the housing of the main unit.

2.5. Variants and components : Not applicable

Type : RCN  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

---

### 3. Remark concerning tested object(s)

All versions of the ESA type as stated in the information document are covered with the tested version(s) and test object(s) respectively.

### 4. Appendices

- L **Technical information about the electrical/electronic sub-assembly (ESA) according to Annex 3B of the communication concerning the UN-type approval**
  - 0 **List of modifications**
- Information folder No. : RCN-R10-00 ( 8 pages)

### 5. Statement of conformity

The point 0.5 mentioned information folder and the type described in that comply with the requirements mentioned on page 1.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (see point 1.2).

The mentioned test results refer to the vehicle(s)/object(s) described under point 1.1 of this report.

Engineering Center Shanghai, September 15, 2021  
CG



Cherry Gu  
Expert Technical Service

Type : RCN  
 Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

**Technical information about the electrical/electronic sub-assembly (ESA) Appendix L**  
**according to Annex 3B of the communication concerning the UN-type approval**

- |      |   |  |
|------|---|--|
| 1.   | <b>Make (trade name of manufacturer)</b>  | :   |
| 2.   | <b>Type and general commercial description(s)</b>   | : RCN<br>Compressor refrigerator   |
| 3.   | <b>Means of identification of type, if marked on the vehicle/component/separate technical unit</b>                            | : Version 1: RCN90L<br>Version 2: RCN150L  |
| 3.1. | Location of that marking  | : Label affixed on the housing of the product, refer to information folder   |
| 4.   | <b>Category of vehicle</b>  | : Not applicable   |
| 5.   | <b>Name and address of manufacturer</b>   | : Jiangsu Sanjo Intelligent Technology Co., Ltd.<br>No. 258 Wuxing Avenue, Nandu Town, Liyang City,<br>Jiangsu Province, China |
| 6.   | <b>In the case of components and separate technical units, location and method of affixing of the approval mark</b>           | : Label affixed on the housing of the product, refer to information folder   |
| 7.   | <b>Address(es) of the assembly plant(s)</b>   | : No. 258 Wuxing Avenue, Nandu Town, Liyang City,<br>Jiangsu Province, China   |
| 8.   | <b>Additional information</b>   | : See appendix below   |
| 9.   | <b>Technical Service responsible for carrying out the tests</b>   | : TÜV Rheinland Luxemburg S.à r.l.<br>2-4, rue Edmond Reuter<br>L-5326 Contern   |
| A    |   | : September 15, 2021   |
| 11.  | <b>No. of test report</b>   | : 87-R10-2073/21-00  |
| 12.  | <b>Remarks (if any)</b>   | : See appendix below   |
| 16.  | <b>The index to the information package lodged with the Approval authority, which may be obtained on request, is attached</b> | : Not applicable   |
| 17.  | <b>Reasons for extension</b>  | : <del>See information folder (approval history)</del> not applicable  |

Type : RCN  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

---

**Appendix to type-approval communication form No. E13\*10R06/01\*XXXX\*00  
concerning the type-approval of an electrical/electronic sub-assembly under Regulation  
No. 10**

**1. Additional information**

- 1.1. Electrical system rated voltage : 12/24V DC, pos./neg. ground
- 1.2. This ESA can be used on any : vehicles with 12/24V DC voltage system  
vehicle type with the following  
restrictions
- 1.2.1. Installation conditions, if any : Connect to the Battery
- 1.3. This ESA can be used only on : Not applicable  
the following vehicle types
- 1.3.1. Installation conditions, if any : Not applicable
- 1.4. The specific test method(s) used : ISO 11452-4, Fourth edition 2011  
and the frequency ranges Bulk current injection testing method (from 20 to  
covered 400MHz)  
to determine immunity were ISO 11452-2 2nd edition: 2004  
(please specify precise method Free field testing method (from 400 MHz to 2000MHz)  
used from Annex 9)
- 1.5. Laboratory accredited to ISO : Not applicable  
17025 and recognized by the  
Approval Authority responsible  
for carrying out the tests
- 2. Remarks** : Not applicable

Type : RCN  
Manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.

---

List of modifications

Appendix 0

Correction of : --

Modification of : --

Addition of : --

Deletion of : --

<b>Content</b>	
<b>DOCUMENT</b>	<b>PAGE</b>
Technical description	2
Photo of the ESA	3-4
Photo of the PCB	5
Electric Circuit Diagram	6
Bill of materials	7
Label	8

INFORMATION DOCUMENT FOR TYPE-APPROVAL OF AN ~~ELECTRIC~~/ELECTRONIC SUB-  
ASSEMBLY WITH RESPECT TO ELECTROMAGNETIC COMPATIBILITY ACCORDING ANNEX 2B OF  
UN-R10.06

- 1 Make (trade name of the manufacturer) : 
- 2 Type and general commercial description(s) : Type: RCN  
Commercial description: Compressor refrigerator
- Version : Version 1: RCN90L  
Version 2: RCN150L
- 3 Means of identification of type, if marked on the component/separate technical unit<sup>1</sup> : Same as item 2 versions
- 3.1 Location of that marking : Label affixed on the housing of the product
- 4 Name and address of the manufacturer : Jiangsu Sanjo Intelligent Technology Co., Ltd.  
No. 258 Wuxing Avenue, Nandu Town, Liyang City,  
Jiangsu Province, China
- Name and address of authorized representative, if any : N.A
- 5 In the case of components and separate technical units, location and method of affixing of the approval mark : Label affixed on the housing of the product
- 6 Address(es) of assembly plant(s) : Jiangsu Sanjo Intelligent Technology Co., Ltd.  
No. 258 Wuxing Avenue, Nandu Town, Liyang City,  
Jiangsu Province, China
- 7 This ESA shall be approved as a : Component / ~~STU~~<sup>2</sup>
- 8 Any restrictions of use and conditions for fitting : Connect to the Battery
- 9 Electrical system rated voltage : 12V/24V, ~~positive~~/negative<sup>2</sup> ground.

<sup>1</sup> If the means of identification of type contains characters not relevant to describe the component or separate technical unit types covered by this information document, such characters shall be represented in the documentation by the symbol "?" (e.g. ABC??123??).

<sup>2</sup> Delete where not applicable.

Only applicable for charging systems: : Not applicable

10. Charger: on board/external
11. Charging current: direct current/alternating current
12. Maximal nominal current (in each mode if necessary)
13. Nominal charging voltage
14. Basic ESA interface functions: ex. L1/L2/L3/N/PE/control pilot
15. Minimum Rsce value

**Photo of the ESA**

**Front View**

RCN90L:



RCN150L:



**Rear View**

RCN90L:



RCN150L:



**Inside View**

RCN90L:



RCN150L:



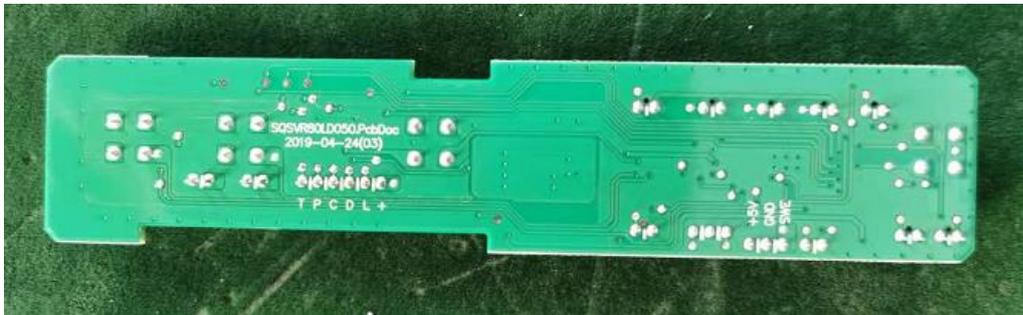
Photo of the PCB

RCN90/150L: Internal Control

Front:

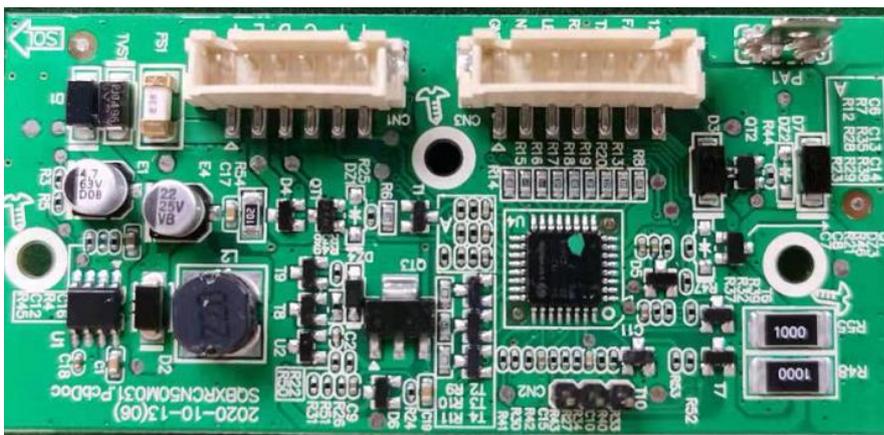


Back:

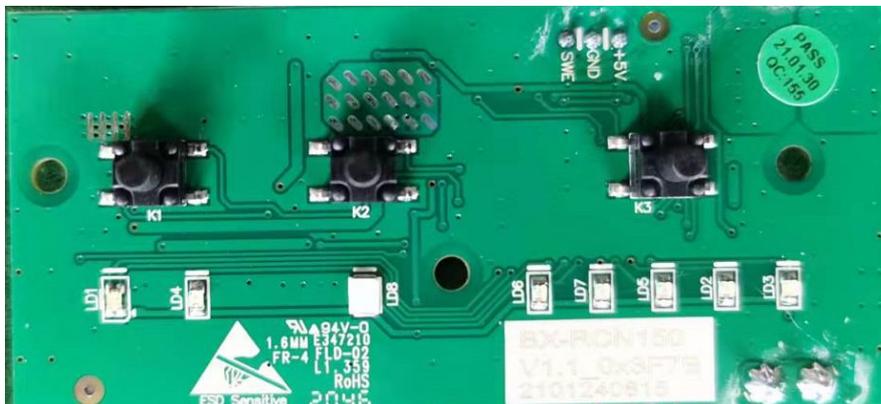


RCN90/150L: External Control:

Front:

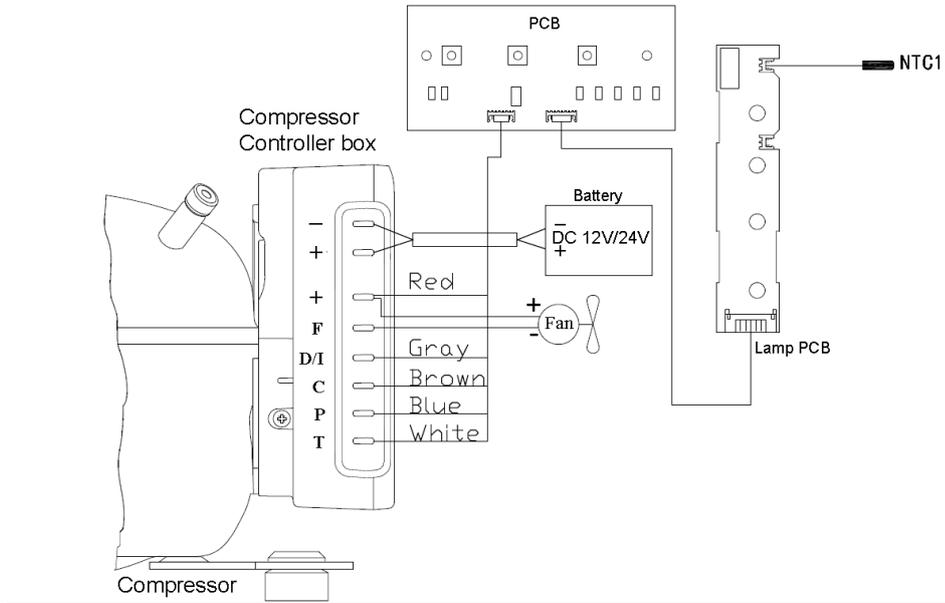


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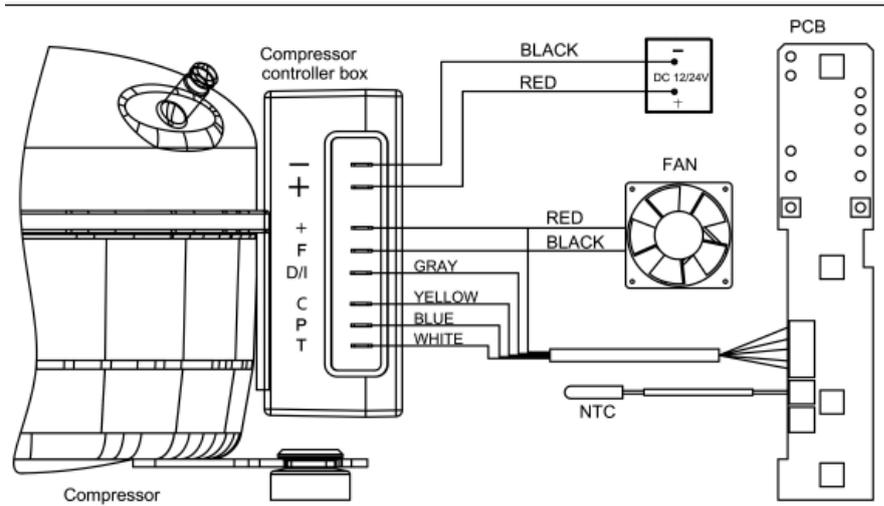


**Electric Circuit Diagram**

**Electric Circuit Diagram: RCN150/90L:**



RCN series 接线图



**Bill of materials**

<b>Part number</b>	<b>Description</b>	<b>Quantity</b>
Motor-Compressor	1.BD50F 2.BD80CN 3. ECV40 4.ECV60	1
Compressor control unit	1.10N0650 2.11212A 3.101N0212	1
FAN motor	D12BM-12	1
DC supply cord	300/300V	1
6Pin wire	300/300V	1
Operating board	FLD	1
LED board	FLD	1
Box cavity shell	1. PP 2. Iron sheet	1

**Label**

**RCN90L**

Model	RCN90L-R			
Serial	212700002			
Cold Volume:	60L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	15L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	6.93A at DC 12V	
Refrigerant :	R600A/0.02kg		4.06A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

Model	RCN90L-R			
Serial	212700002			
Cold Volume:	60L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	15L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	4.08A at DC 12V	
Refrigerant :	R1234yf/0.045kg		1.84A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

Model	RCN90L-R			
Serial	212700002			
Cold Volume:	60L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	15L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	6.41A at DC 12V	
Refrigerant :	R1234yf/0.045kg		2.70A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

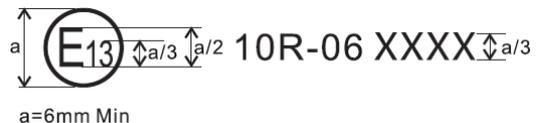
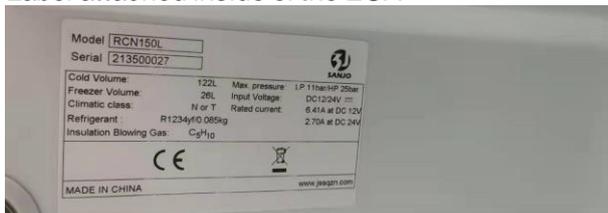
**RCN150L**

Model	RCN150L			
Serial	212700002			
Cold Volume:	122L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	26L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	6.93A at DC 12V	
Refrigerant :	R600A/0.04kg		4.06A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

Model	RCN150L			
Serial	212700002			
Cold Volume:	122L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	26L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	4.08A at DC 12V	
Refrigerant :	R290A/0.035kg		1.84A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

Model	RCN150L			
Serial	212700002			
Cold Volume:	122L	Max. pressure:	LP 11bar/HP 25bar	
Freezer Volume:	26L	Input Voltage:	DC12/24V ---	
Climatic class:	N or T	Rated current:	6.41A at DC 12V	
Refrigerant :	R1234yf/0.085kg		2.70A at DC 24V	
Insulation Blowing Gas:	C <sub>5</sub> H <sub>10</sub>			
MADE IN CHINA		www.jssqzn.com		

**Label attached inside of the ESA**



**CERTIFICATE**  
of Conformity  
EC Council Directive 2014/30/EU  
Electromagnetic Compatibility

Registration No.: AE 50537538 0001

Report No.: CN22J81A 001

Holder: **JIANGSU SANJO INTELLIGENT  
TECHNOLOGY CO., LTD.**  
No. 8 Jinguazi ROAD,  
NANDU TOWN, LIYANG CITY,  
Jiangsu  
P.R. China

Product: **Refrigerator**  
(Car Refrigerator)

Identification: RCN90L RCN150L RCE140L RCE170L

Serial No.: n.a.

Remark: Refer to test report CN22J81A 001 for details

Tested acc. to: EN 50498:2010

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Certification Body

Date 23.03.2022



*Xinhua Lu*

Xinhua Lu

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

JIANGSU SANJO INTELLIGENT  
TECHNOLOGY CO., LTD.

Date : 23.03.2022  
Our ref. : CZG 01  
Your ref.:

No. 8 Jinguazi ROAD,  
NANDU TOWN, LIYANG CITY,  
Jiangsu  
P.R. China

**Ref : AE Certificate of Conformity EMC**

Type of Equipment : Car Refrigerator  
Model Designation : See Certificate  
Certificate No. : AE 50537538 0001  
Report No. : CN22J81A 001

Dear Ladies and Gentlemen,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

*Xinhua Lu*

Xinhua Lu

CC: JIANGSU SANJO INTELLIGENT

Enclosure

证书的详细信息请登陆[www.tuvdotcom.com](http://www.tuvdotcom.com)查询, 或拨打我司客服热线800 999 3688 / 400 883 1300咨询