



TEST REPORT IEC 60335-2-40 Safety of household and similar electrical appliances Part 2-40: Particular requirements for electrical heat pumps, air conditioners and dehumidifiers	
Report Number.....	ABUV-ESH-P22090046-A2 Supplement "A2" to Test report No: "ABUV-ESH-P22090046" dated on 2022-09-06
Date of issue	2023-03-30
Total number of pages	78
Name of Testing Laboratory preparing the Report	LCIE CHINA Company Limited Building 4, No. 518, XinZhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai, P.R.C(201612)
Applicant's name	Qingdao Haier Air Conditioner General Corp. Ltd.
Address	No.1 Haier Road, Hi-Tech Zone, Qingdao 266101, P.R. China
Test specification:	
Standard	IEC 60335-2-40:2002, AMD1:2005, COR1:2006, AMD2:2005 in conjunction with IEC 60335-1:2010, AMD1:2013, AMD2:2016
Test procedure.....	CE
Non-standard test method.....	N/A
Test Report Form No.	IEC60335_2_40R
Test Report Form(s) Originator ...	VDE Prüf- und Zertifizierungsinstitut GmbH
Master TRF	Dated 2020-04-30
<i>This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.</i>	
Test item description.....	Split type air conditioner
Trade Mark	

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Manufacturer.....:	Qingdao Haier Air Conditioner General Corp.,Ltd. No.1 Haier Road High-Tech Zone, 266103 Qingdao City, PEOPLE'S REPUBLIC OF CHINA
Model/Type reference.....:	AS18PDAHRA (Indoor unit) with 1U18MEGFRA (Outdoor unit), AS50PDAHRA (Indoor unit) with 1U50MEGFRA (Outdoor unit), AS18TDDHRA (Indoor unit) with 1U18MEGFRA (Outdoor unit), AS50TDMHRA-C (Indoor unit) with 1U50MEMFRA-C (Outdoor unit), AS50TDDHRA-CLC (Indoor unit) with 1U50MEGFRA (Outdoor unit), FP-18HT/21 (Indoor unit) with FP-18HTD/21 (Outdoor unit), AS18NDDHRA (Indoor unit) with 1U18MEGFRA (Outdoor unit), AS50TDDHRA-TU (Indoor unit) with 1U50MEMFRA-TU (Outdoor unit), AS50PDAHRA-TU (Indoor unit) with 1U50MEGFRA-TU (Outdoor unit), AS24TDRHRA (Indoor unit) with 1U24MRAFRA (Outdoor unit), AS24PDAHRA (Indoor unit) with 1U24WEGFRA (Outdoor unit), AS68PDAHRA (Indoor unit) with 1U68WEGFRA (Outdoor unit), TRK24INVDMEI (Indoor unit) with TRK24INVDMEO (Outdoor unit) OLE-24DIH (Indoor unit) with OLE-24DIH (Outdoor unit), AS24PDAHRA (Indoor unit) with 1U24MRAFRA (Outdoor unit), AS68PDAHRA (Indoor unit) with 1U68MRAFRA (Outdoor unit), AS68RDAHRA (Indoor unit) with 1U68MRAFRA (Outdoor unit), AS24TDRHRA (Indoor unit) with 1U24WEGFRA (Outdoor unit), AS68TDRHRA (Indoor unit) with 1U68WEGFRA (Outdoor unit), AS68TDRHRA-C (Indoor unit) with 1U68WEGFRA-C (Outdoor unit), AS68TDRHRA-CLC (Indoor unit) with 1U68WEGFRA-C (Outdoor unit), AS68TDRHRA-THC (Indoor unit) with 1U68WEGFRA-C (Outdoor unit), SGM18INVDHDI (Indoor unit) with SGM18INVDHDO (Outdoor unit), ESA1518A100 (Indoor unit) with ESB1518A100 (Outdoor unit), ESA1418A100 (Indoor unit) with ESB1418A100 (Outdoor unit), Vitoclima 200-S/HE W2050MDH3 (Indoor unit) with Vitoclima 200-S/HE OSW2050MDH3 (Outdoor unit), SGM24INVDHDI (Indoor unit) with SGM24INVDHDO (Outdoor unit), ESA1524A100 (Indoor unit) with ESB1524A100 (Outdoor unit), Vitoclima 200-S/HE W2068MDH3 (Indoor unit) with Vitoclima 200-S/HE OSW2068MDH3 (Outdoor unit). AS68RDAHRA-TU (Indoor unit) with 1U68MRAFRA-TU (Outdoor unit)
Ratings	See the model list on Page 4.

Supplement "A2" to Test report No: "ABUV-ESH-P22090046" dated on 2022-09-06

Testing procedure and testing location:		
☒	Testing Laboratory:	LCIE CHINA Company Limited
Testing location/ address..... :		Building 4, No. 518, Xin Zhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai, P.R.C (201612)
Tested by (name + signature)		Project Engineer: Jason Kong <i>Jason Kong</i>
Approved by (name + signature)		Product Line Manager Tim GUO
Testing procedure: CTF Stage 1:		
Testing location/ address..... :		
Tested by (name + signature)		
Approved by (name + signature)		
Testing procedure: CTF Stage 2:		
Testing location/ address..... :		
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
Testing procedure: CTF Stage 3 or 4:		
Testing location/ address..... :		
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
Supervised by (name + signature)		

The model list:

220-240V~, 50Hz, Class I, IPX4 for outdoor unit, IPX0 for indoor unit, Max. pressure: 4,3MPa, T1				
Model No.	Rated power input	Rated current input	Refrigerant	Trade Mark
AS18PDAHRA (Indoor unit) with 1U18MEGFRA (Outdoor unit)	2,5kW	11,3A	R32/0,90kg	Haier
AS50PDAHRA (Indoor unit) with 1U50MEGFRA (Outdoor unit)	2,5kW	11,3A	R32/0,90kg	
AS18TDDHRA (Indoor unit) with 1U18MEGFRA (Outdoor unit)	2,5kW	11,3A	R32/0,90kg	
AS50TDMHRA-C (Indoor unit) with 1U50MEMFRA-C (Outdoor unit)	2,5kW	11,3A	R32/0,90kg	
AS50TDDHRA-CLC (Indoor unit) with 1U50MEGFRA (Outdoor unit)	2,5kW	11,3A	R32/0,90kg	
FP-18HT/21 (Indoor unit) with FP-18HTD/21 (Outdoor unit),	2,5kW	11,3A	R32/0,90kg	FUJIPLUS⁺ FOR CONDENSERS EFFICIENCY
AS18NDDHRA (Indoor unit) with 1U18MEGFRA (Outdoor unit)	2,5kW	11,3A	R32/0,90kg	Haier
AS50TDDHRA-TU (Indoor unit) with 1U50MEMFRA-TU (Outdoor unit)	2,5kW	11,3A	R32/0,90kg	
AS50PDAHRA-TU (Indoor unit) with 1U50MEGFRA-TU (Outdoor unit)	2,5kW	11,3A	R32/0,90kg	
AS24TDRHRA (Indoor unit) with 1U24MRAFRA (Outdoor unit)	2,5kW	11,3A	R32/0,90kg	
AS24PDAHRA (Indoor unit) with 1U24WEGFRA (Outdoor unit)	2,9 kW	13,0A	R32/1,10kg	
AS68PDAHRA (Indoor unit) with 1U68WEGFRA (Outdoor unit)	2,9 kW	13,0A	R32/1,10kg	Tronic
TRK24INVDMEI (Indoor unit) with TRK24INVDMEO (Outdoor unit)	2,2kW cooling 2,3kW heating	10A cooling 10,5A heating	R32/0,90kg	
OLE-24DIH (Indoor unit) with OLE-24DIH (Outdoor unit)	2,2kW cooling 2,3kW heating	-	R32/0,90kg	OLEFINI
AS24PDAHRA (Indoor unit) with 1U24MRAFRA (Outdoor unit)	2,5kW	11,3A	R32/0,90kg	Haier
AS68PDAHRA (Indoor unit) with 1U68MRAFRA (Outdoor unit)	2,2kW	10,0A	R32/0,90kg	

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AS68RDAHRA (Indoor unit) with 1U68MRAFA (Outdoor unit)	2,2kW	10,0A	R32/0,90kg	
AS24TDRHRA (Indoor unit) with 1U24WEGFA (Outdoor unit)	2,9 kW	13,0A	R32/1,10kg	
AS68TDRHRA (Indoor unit) with 1U68WEGFA (Outdoor unit)	2,9kW	13,0A	R32/1,10kg	
AS68TDRHRA-C (Indoor unit) with 1U68WEGFA-C (Outdoor unit)	2,9kW	13,0A	R32/1,10kg	
AS68TDRHRA-CLC (Indoor unit) with 1U68WEGFA-C (Outdoor unit)	2,9kW	13,0A	R32/1,10kg	
AS68TDRHRA-THC (Indoor unit) with 1U68WEGFA-C (Outdoor unit)	2,9kW	13,0A	R32/1,10kg	
SGM18INVDHDI (Indoor unit) with SGM18INVDHDO (Outdoor unit)	2,0kW cooling 2,5kW heating	8,9A cooling 11,3A heating	R32/0,90kg	SIGMA
ESA1518A100 (Indoor unit) with ESB1518A100 (Outdoor unit)	2,50kW	11,3A	R32/0,90kg	E.C.A. ®
ESA1418A100 (Indoor unit) with ESB1418A100 (Outdoor unit)	2,50kW	11,3A	R32/0,90kg	E.C.A. ®
Vitoclima 200-S/HE W2050MDH3 (Indoor unit) with Vitoclima 200-S/HE OSW2050MDH3 (Outdoor unit)	2,0kW cooling 2,5kW heating	-	R32/0,90kg	VIESMANN
SGM24INVDHDI (Indoor unit) with SGM24INVDHDO (Outdoor unit)	2,9kW	13,0A	R32/1,10kg	SIGMA
ESA1524A100 (Indoor unit) with ESB1524A100 (Outdoor unit)	2,9kW	13,0A	R32/1,10kg	E.C.A. ®
Vitoclima 200-S/HE W2068MDH3 (Indoor unit) with Vitoclima 200-S/HE OSW2068MDH3 (Outdoor unit)	2,9kW	-	R32/1,10kg	VIESMANN
AS68RDAHRA-TU (Indoor unit) with 1U68MRAFA-TU (Outdoor unit)	2,3kW	11,5A	R32/0,90kg	Haier

List of Attachments (including a total number of pages in each attachment): Appendix 1: EU differences of EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012, EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019 + A15:2021 and EN 62233:2008 (Page 75 - 78)	
Summary of testing: The products were tested according to: EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019+ A15:2021 EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012 EN 62233:2008	
Tests performed (name of test and test clause): After technical evaluation, Cl. 7.1, Cl. 10, Cl.24 and Cl.30 were checked. Other test data were based on the original report. All test results were found complying with the standards.	Testing location: LCIE CHINA Company Limited Building 4, No. 518, Xin Zhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai, P.R.C (201612)
Summary of compliance with National Differences (List of countries addressed): EU Group Differences EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019+ A15:2021 EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012 EN 62233:2008	

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

AS18PDAHRA (Indoor unit) with 1U18MEGFRA (Outdoor unit)

Haier CE  MODEL: AS18PDAHRA Split type room air conditioner	<table> <tr> <td>Power supply</td><td>1PH,220-240V~,50Hz</td></tr> <tr> <td>Anti-electric shock</td><td>Class I</td></tr> <tr> <td>Net Weight</td><td>11.6kg</td></tr> <tr> <td>Air volume</td><td>900m³/h</td></tr> <tr> <td>Nominal voltage (UVC)</td><td>DC 12 V</td></tr> <tr> <td>Rated power (UVC)</td><td>1.2 W</td></tr> <tr> <td>Manufacture date</td><td></td></tr> <tr> <td>Manufactured by Haier</td><td>MADE IN P.R.C.</td></tr> </table>	Power supply	1PH,220-240V~,50Hz	Anti-electric shock	Class I	Net Weight	11.6kg	Air volume	900m³/h	Nominal voltage (UVC)	DC 12 V	Rated power (UVC)	1.2 W	Manufacture date		Manufactured by Haier	MADE IN P.R.C.
Power supply	1PH,220-240V~,50Hz																
Anti-electric shock	Class I																
Net Weight	11.6kg																
Air volume	900m³/h																
Nominal voltage (UVC)	DC 12 V																
Rated power (UVC)	1.2 W																
Manufacture date																	
Manufactured by Haier	MADE IN P.R.C.																
  																	

Haier CE 	
MODEL: 1U18MEGFRA Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	5.0
SEER	6.1
Heating Capacity (kW)	5.2
Pdesignh Capacity (kW)	4.6
SCOP	4.0
Rated power input (kW)	2.5
Rated current (A)	11.3
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: On the bar code	

AS50PDAHRA (Indoor unit) with 1U50MEGFRA (Outdoor unit),

Haier CE 		Power supply	1PH,220-240V~,50Hz
MODEL: AS50PDAHRA		Anti-electric shock	Class I
Split type room air conditioner		Net Weight	11.6kg
  		Air volume	900m³/h
		Nominal voltage (UVC)	DC 12 V
		Rated power (UVC)	1.2 W
		Manufacture date	
		Manufactured by Haier	MADE IN P.R.C.
0011512574			

Haier CE 	
MODEL: 1U50MEGFRA	
Single split type room air conditioner outdoor unit.	
ITEM	PARAMETER
Pdesignc Capacity (kW)	5.0
SEER	6.1
Heating Capacity (kW)	5.2
Pdesignh Capacity (kW)	4.6
SCOP	4.0
Rated power Input (kW)	2.5
Rated current (A)	11.3
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
    	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases.	
Manufacture date: On the bar code	
0011512578	

AS50TDMHRA-C (Indoor unit) with 1U50MEMFRA-C (Outdoor unit)

Haier   MODEL: AS50TDMHRA-C Split type room air conditioner	Power supply 1PH,220-240V~,50Hz Anti-electric shock Class I Net Weight 11.6 kg Air volume 900m³/h
  	Manufacture date MADE IN P.R.C. Manufactured by Haier

0011515697

Haier  	
MODEL: 1U50MEMFRA-C Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	5.0
SEER	6.1
Heating Capacity (kW)	5.2
Pdesignh Capacity (kW)	4.6
SCOP	4.0
Rated power input (kW)	2.5
Rated current (A)	11.3
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
    	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: On the bar code	
0011515699	

AS50TDDHRA-CLC (Indoor unit) with 1U50MEGFRA (Outdoor unit)

Haier CE  MODEL: AS50TDDHRA-CLC Split type room air conditioner	Power supply 1PH,230V~,50Hz Anti-electric shock Class I Net Weight 11.6 kg Air volume 900m³/h
  	Manufacture date MADE IN P.R.C. Manufactured by Haier

0011513467

Haier

MODEL: 1U50MEGFRA

Single split type room air conditioner outdoor unit

ITEM	PARAMETER
Pdesignc Capacity (kW)	5.0
SEER	6.1
Heating Capacity (kW)	5.2
Pdesignh Capacity (kW)	4.6
SCOP	4.0
Rated power Input (kW)	2.5
Rated current (A)	11.3
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90kg
GWP	675
Equivalent CO ₂	0.61t
IPX4	

The product contains fluorinated greenhouse gases and its functioning relies upon such gases.

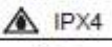
Manufacture date: On the bar code

0011512678

0011512678

FP-18HT/21 (Indoor unit) with FP-18HTD/21 (Outdoor unit)

  		Güç kaynağı 1PH,220-240V~,50Hz Elek. kor. sınıfı Sınıf I Net ağırlık 11.6 kg Hava debisi 900m³/h Tel:+90 322 224 14 14 Üretim Tarihi:
MODEL:FP-18HT/21 Split tipi klima SAKURA 18000 BTU/h		Importer Company / İthalatçı Firma: KURLUK MÜHENDİSLİK KLİMLENDİRME BEYAZ EŞYA İNŞ. TAAH. KİMYA TİC. VE SAN. İTH. İHR. LTD. ŞTİ. Postal address /Adres: Yeşilyurt Mh. Mavi Bulvarı Burcu Şenbayrak Apt. N:55/A Seyhan /ADANA Made in P.R.C.
  		0011516189

  	
MODEL: FP-18HTD/21 SAKURA 18000 BTU/h Split Tipi Klima Dış Ünitesi	
Madde	Parametre
Pdizayn Kapasitesi (kW)	5.0
Soğutma Kapasitesi Btu/h	
Norminal(Min-Max)	17060(4430-19790)
SEER	6.1
Isıtma Kapasitesi(kW)	5.2
Isıtma Kapasitesi Btu/h	
Norminal(Min-Max)	17740(4770-20470)
Pdizayn Kapasitesi (kW)	4.6
SCOP	4.0
Maks. güç girişi (kW)	2.5
Maks. akım (A)	11.3
Güç kaynağı	1PH,220-240V~,50Hz
İklim sınıflaması	T1
Elek. kor. sınıfı	Sınıf I
Net ağırlık	32.7kg
Maks. çalışma basıncı	4.3MPa
Soğutucu akışkan	R32 0.90kg
GWP	675
Equivalent CO ₂	0.61t
	
  	
 	
Ürün florlu sera gazları ve benzer içerikli gazlar bulundurmaktadır. Importer Company / İthalatçı Firma: KURLUK MÜHENDİSLİK KLİMLENDİRME BEYAZ EŞYA İNŞ. TAAH. KİMYA TİC. VE SAN. İTH. İHR. LTD. ŞTİ. Postal address /Adres: Yeşilyurt Mh. Mavi Bulvarı Burcu Şenbayrak Apt. N:55/A Seyhan /ADANA Tel: +90 322 224 14 14 Made in P.R.C. Üretim Yılı: 0011516190	

AS18NDDHRA (Indoor unit) with 1U18MEGFRA (Outdoor unit)

Haier CE  MODEL: AS18NDDHRA Split type room air conditioner	Power supply 1PH,230V~,50Hz Anti-electric shock Class I Net Weight 13 kg Air volume 900m³/h
  	Manufacture date MADE IN P.R.C. Manufactured by Haier

Haier CE 	
MODEL: 1U18MEGFRA Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	5.0
SEER	6.1
Heating Capacity (kW)	5.2
Pdesignh Capacity (kW)	4.6
SCOP	4.0
Rated power input (kW)	2.5
Rated current (A)	11.3
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
    	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: On the bar code	

AS50TDDHRA-TU (Indoor unit) with 1U50MEMFRA-TU (Outdoor unit)

Haier   MODEL:AS50TDDHRA-TU Split tipi klima	Güç kaynağı Elek. kor. sınıfı Net ağırlık Hava debisi Üretim Tarihi: Manufactured by Haier Made in P.R.C.	1PH,220~240V,50Hz 'Sınıf' I 11.6kg 900m³/h
	  	

0011517075

Haier  	
MODEL: 1U50MEMFRA-TU Split Tipi Klima Dış Ünitesi	
Madde	Parametre
Pdizayn Kapasitesi (kW)	5.0
SEER	6.1
Isıtma Kapasitesi (kW)	5.2
Pdizayn Kapasitesi (kW)	4.6
SCOP	4.0
Maks. güç girişi (kW)	2.5
Maks. akım (A)	11.3
Güç kaynağı	1PH,220-240V~,50Hz
İklim sınıflaması	T1
Elek. kor. sınıfı	Sınıf I
Net ağırlık	32.7 kg
Maks. çalışma basıncı	4.3 MPa
Soğutucu akışkan	R32 0.90 kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
    	
Ürün florlu sera gazları ve benzer içerikli gazlar bulundurmaktadır. Üretim Yılı: Made in P.R.C.	
0011517082	

AS50PDAHRA-TU (Indoor unit) with 1U50MEGFRA-TU (Outdoor unit)

Haier  		Güç kaynağı Elek. kor. sınıfı Net ağırlık Hava debisi Nominal güç (UVC) Anma Gücü (UVC)	1PH,220~240V,50Hz Sınıf I 11.6kg 900m³/h DC 12V 1.2W
MODEL:AS50PDAHRA-TU Split tipi klima		Üretim Tarihi: Manufactured by Haier Made in P.R.C.	
  		0011517079	

Haier  	
MODEL: 1U50MEGFRA-TU Split Tipi Klima Dış Ünitesi	
Madde	Parametre
Pdizayn Kapasitesi (kW)	5.0
SEER	6.1
Isıtma Kapasitesi (kW)	5.2
Pdizayn Kapasitesi (kW)	4.6
SCOP	4.0
Maks. güç girişi (kW)	2.5
Maks. akım (A)	11.3
Güç kaynağı	1PH,220~240V~,50Hz
İklim sınıflaması	T1
Elek. kor. sınıfı	Sınıf I
Net ağırlık	32.7 kg
Maks. çalışma basıncı	4.3 MPa
Soğutucu akışkan	R32 0.90kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
  	
 	
Ürün florlu sera gazları ve benzer içerikli gazlar bulundurmaktadır. Üretim Yılı: Made in P.R.C.	
0011517086	

AS24TDRHRA (Indoor unit) with 1U24MRAFRA (Outdoor unit)

Haier CE  MODEL: AS24TDRHRA Split type room air conditioner	Power supply 1PH,220-240V~,50Hz Anti-electric shock Class I Net Weight 11.6kg Air volume 1100 m³/h
  	Manufacture date MADE IN P.R.C. Manufactured by Haier

Haier CE  MODEL: 1U24MRAFRA Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.20
SEER	6.7
Heating Capacity (kW)	6.50
Pdesignh Capacity (kW)	4.60
SCOP	4.0
Rated power input (kW)	2.50
Rated current (A)	11.3
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90 kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
    	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases.	
Manufacture date: On the bar code	

AS24PDAHRA (Indoor unit) with 1U24WEGFRA (Outdoor unit)

  	MODEL: AS24PDAHRA Split type room air conditioner	Power supply 1PH,220-240V~,50Hz Anti-electric shock Class I Net Weight 11.6kg Air volume 1000m³/h Nominal voltage (UVC) DC 12 V Rated power (UVC) 1.2 W Manufacture date Manufactured by Haier	MADE IN P.R.C. 0011518821
	  		

  	
MODEL: 1U24WEGFRA Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.80
SEER	6.8
Heating Capacity (kW)	6.80
Pdesignh Capacity (kW)	5.60
SCOP	4.0
Rated power input (kW)	2.90
Rated current (A)	13.0
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	44.0 kg
Max work pressure	4.3 MPa
Refrigerant	R32 1.10kg
GWP	675
Equivalent CO ₂	0.74t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: On the bar code	
0011518821	

TRK24INVDMEI (Indoor unit) with TRK24INVDME0 (Outdoor unit)

Tronic  MODEL : TRK24INVDMEI INVERTER WALL MOUNTED TYPE INDOOR UNIT MADE FOR IKLIMSA MANUFACTURED DATE: xxxx / xx		POWER SUPPLY 1PH,220-240V~,50Hz COOLING CAPACITY 21154 (5800-23570) BTU/h HEATING CAPACITY 22178 (6442-24300) BTU/h COOLING RATED INPUT 2.2 kW HEATING RATED INPUT 2.3 kW OUTDOOR RESISTANCE CLASS IPX4	REFRIGERANT R32 MAXIMUM CURRENT 10 A (COOLING) MAXIMUM CURRENT 10.5 A (HEATING) NET WEIGHT 11.6 kg EXCESSIVE OPERATING PRESSURE HI 4.3MPa LO 2.5MPa
  		MANUFACTURER NAME: QINGDAO HAIER AIR CONDITIONER GENERAL CO.,LTD. MANUFACTURER ADD : QINGDAO HIGH-TECH. IND. PARK HAIER ROAD QINGDAO, SHANDONG 266101 P.R. CHINA. CONTAINS FLUORINATED GREENHOUSE GASES	
		Tronic Oracle Code 6.4001.9685 0011523980	

  		
INVERTER WALL MOUNTED TYPE AIR CONDITIONER OUTDOOR UNIT		
MODEL	TRK24INVDME0	
POWER SUPPLY	1PH,220-240V~,50Hz	
COOLING CAPACITY	21154(5800-23570)BTU/h	
HEATING CAPACITY	22178(6442-24300)BTU/h	
NET WEIGHT	32.7kg	
REFRIGERANT	R32/900g	
COOLING RATED INPUT	2.2kW	
HEATING RATED INPUT	2.3kW	
CO ₂ EQUIVALENT	0.61Tonnes	
GWP	675	
EXCESSIVE OPERATING PRESSURE	HI	4.3MPa
	LO	2.5MPa
OUTDOOR RESISTANCE CLASS	IPX4	
MANUFACTURED DATE: xxxx/xx		
Tronic MADE FOR iKLIMSA		
MANUFACTURER NAME: QINGDAO HAIER AIR CONDITIONER GENERAL CO.,LTD.		
MANUFACTURER ADD : QINGDAO HIGH-TECH. IND. PARK HAIER ROAD QINGDAO, SHANDONG 266101 P.R. CHINA.		
CONTAINS FLUORINATED GREENHOUSE GASES		
Tronic Oracle Code		
0011523989 6.4001.9686		

OLE-24DIH (Indoor unit) with OLE-24DIH (Outdoor unit)

SPLIT AIR CONDITIONER INDOOR UNIT

Model	OLE-24DIH
Rated Voltage	220-240V~
Rated Frequency	50Hz
Cooling Capacity	6200W
Heating Capacity	6300W
Air Flow Volume(Hava Debisi)	1000m ³ /h
Sound Pressure Level(H)	49dB(A)
Weight	11.6kg
Manufactured Date	DD/MM/YYYY

Importer
OAC IKLIMLENDİRME A.Ş.
Gursel Mh. Nurtac Cd. No:71/A Kagithane/Istanbul/Turkey
Manufacturer
Qingdao Haier Air Conditioner General Co., Ltd.
Add: Qingdao High-Tech. Ind. Park Haier Road
Qingdao, Shandong 266101 P.R. China

MADE IN P.R.C.

AIR CONDITIONER OUTDOOR UNIT

Model	OLE-24DIH
Rated Voltage	220-240V~
Rated Frequency	50Hz
Climate Type	T1
Cooling Capacity	6.2kW
Heating Capacity	6.3kW
Cooling Power Input	2200W
Heating Power Input	2300W
Cooling Rated Input	2000W
Heating Rated Input	1750W
Maximum Allowable Pressure	4.3MPa

Operating Pressure
(Discharge Side/Suction Side) 4.3/2.5MPa

Sound Pressure Level	57dB(A)
Moisture Protection	IPX4
Isolation	I
Refrigerant	R32
Refri. Charge	0.90kg
Weight	32.7kg
GWP	675
Co ₂ equivalent	0.61t
Manufactured Date	DD/MM/YYYY

Importer
OAC IKLIMLENDİRME A.Ş.
Gursel Mh. Nurtac Cd. No:71/A Kagithane/
Istanbul/Turkey
Manufacturer
Qingdao Haier Air Conditioner General Co., Ltd.
Add: Qingdao High-Tech. Ind. Park Haier Road Qingdao,
Shandong 266101 P.R. China
MADE IN P.R.C.

AS24PDAHRA (Indoor unit) with 1U24MRAFRA (Outdoor unit)

Haier CE 		Power supply	1PH,220-240V~,50Hz
MODEL: AS24PDAHRA		Anti-electric shock	Class I
Split type room air conditioner		Net Weight	11.6kg
  		Air volume	1000m³/h
		Nominal voltage (UVC)	DC 12 V
		Rated power (UVC)	1.2 W
		Manufacture date	
		Manufactured by Haier	MADE IN P.R.C.
			0011518621

Haier CE 	
MODEL: 1U24MRAFRA	
Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.20
SEER	6.7
Heating Capacity (kW)	6.50
Pdesignh Capacity (kW)	4.60
SCOP	4.0
Rated power input (kW)	2.50
Rated current (A)	11.3
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90 kg
GWP	675
Equivalent CO ₂	0.61t
	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: On the bar code	

AS68PDAHRA (Indoor unit) with 1U68MRAFRA (Outdoor unit)

  		Power supply 220-240V~,50Hz Anti-electric shock Class I Net Weight 11.6 kg Air volume 1000 m³/h Manufacture date XXXX / XX MADE IN P.R.C. Manufactured by Haier
MODEL: AS68PDAHRA Split type room air conditioner		  
		0011524200

  	
MODEL: 1U68MRAFRA Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.20
SEER	6.7
Heating Capacity (kW)	6.30
Pdesignh Capacity (kW)	4.60
SCOP	4.0
Rated power input (kW)	2.20
Rated current (A)	10.0
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90 kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
    	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: XXXX / XX	
0011524232	

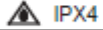
AS68RDAHRA (Indoor unit) with 1U68MRAFRA (Outdoor unit)

  	MODEL: AS68RDAHRA Split type room air conditioner	Power supply 220-240V~,50Hz Anti-electric shock Class I Net Weight 11.6 kg Air volume 1000 m³/h Manufacture date XXXX / XX MADE IN P.R.C. Manufactured by Haier	0011524200
	  		

  	
MODEL: 1U68MRAFRA Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.20
SEER	6.7
Heating Capacity (kW)	6.30
Pdesignh Capacity (kW)	4.60
SCOP	4.0
Rated power input (kW)	2.20
Rated current (A)	10.0
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90 kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
    	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: XXXX / XX 0011524232	

AS24TDRHRA (Indoor unit) with 1U24WEGFRA (Outdoor unit)

Haier CE  MODEL: AS24TDRHRA Split type room air conditioner	Power supply 1PH,220-240V~,50Hz Anti-electric shock Class I Net Weight 11.6kg Air volume 1100 m³/h
  	Manufacture date MADE IN P.R.C. Manufactured by Haier

Haier CE 	
MODEL: 1U24WEGFRA Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.80
SEER	6.8
Heating Capacity (kW)	6.80
Pdesignh Capacity (kW)	5.60
SCOP	4.0
Rated power input (kW)	2.90
Rated current (A)	13.0
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	44.0 kg
Max work pressure	4.3 MPa
Refrigerant	R32 1.10kg
GWP	675
Equivalent CO ₂	0.74t
	
    	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: On the bar code	

AS68TDRHRA (Indoor unit) with 1U68WEGFRA (Outdoor unit)

Haier   MODEL: AS68TDRHRA Split type room air conditioner	<table> <tr> <td>Power supply</td> <td>220-240V~,50Hz</td> </tr> <tr> <td>Anti-electric shock</td> <td>Class I</td> </tr> <tr> <td>Net Weight</td> <td>11.6 kg</td> </tr> <tr> <td>Air volume</td> <td>1000 m³/h</td> </tr> <tr> <td>Manufacture date</td> <td></td> </tr> <tr> <td>MADE IN P.R.C.</td> <td></td> </tr> <tr> <td>Manufactured by Haier</td> <td></td> </tr> </table>	Power supply	220-240V~,50Hz	Anti-electric shock	Class I	Net Weight	11.6 kg	Air volume	1000 m³/h	Manufacture date		MADE IN P.R.C.		Manufactured by Haier	
Power supply	220-240V~,50Hz														
Anti-electric shock	Class I														
Net Weight	11.6 kg														
Air volume	1000 m³/h														
Manufacture date															
MADE IN P.R.C.															
Manufactured by Haier															
  	0011520743														

Haier  	
MODEL: 1U68WEGFRA Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.80
SEER	6.8
Heating Capacity (kW)	6.80
Pdesignh Capacity (kW)	5.60
SCOP	4.0
Rated power input (kW)	2.90
Rated current (A)	13.0
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	44.0 kg
Max work pressure	4.3 MPa
Refrigerant	R32 1.10kg
GWP	675
Equivalent CO ₂	0.74t
 IPX4	
    	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: On the bar code	

AS68TDRHRA-C (Indoor unit) with 1U68WEGFRA-C (Outdoor unit)

   MODEL: AS68TDRHRA-C Split type room air conditioner	Power supply 220-240V~,50Hz Anti-electric shock Class I Net Weight 11.6 kg Air volume 1000 m³/h
	Manufacture date MADE IN P.R.C. Manufactured by Haier 0011520743

  	
MODEL: 1U68WEGFRA-C Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.80
SEER	6.8
Heating Capacity (kW)	6.80
Pdesignh Capacity (kW)	5.60
SCOP	4.0
Rated power input (kW)	2.90
Rated current (A)	13.0
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	44.0 kg
Max work pressure	4.3 MPa
Refrigerant	R32 1.10kg
GWP	675
Equivalent CO ₂	0.74t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: On the bar code	

AS68TDRHRA-CLC (Indoor unit) with 1U68WEGFRA-C (Outdoor unit)

   MODEL: AS68TDRHRA-CLC Split type room air conditioner	<table border="0"> <tr> <td>Power supply</td> <td>220-240V~,50Hz</td> </tr> <tr> <td>Anti-electric shock</td> <td>Class I</td> </tr> <tr> <td>Net Weight</td> <td>11.6 kg</td> </tr> <tr> <td>Air volume</td> <td>1000 m³/h</td> </tr> </table>	Power supply	220-240V~,50Hz	Anti-electric shock	Class I	Net Weight	11.6 kg	Air volume	1000 m³/h
Power supply	220-240V~,50Hz								
Anti-electric shock	Class I								
Net Weight	11.6 kg								
Air volume	1000 m³/h								
   MADE IN P.R.C. Manufactured by Haier	Manufacture date 0011520743								

Haier

MODEL: 1U68WEGFRA-C

Single split type room air conditioner outdoor unit

ITEM	PARAMETER
Pdesignc Capacity (kW)	6.80
SEER	6.8
Heating Capacity (kW)	6.80
Pdesignh Capacity (kW)	5.60
SCOP	4.0
Rated power input (kW)	2.90
Rated current (A)	13.0

Power supply

Climate class

Anti-electric shock

Net weight

Max work pressure

Refrigerant

GWP

Equivalent CO₂

1PH,220-240V~,50Hz

T1

Class I

44.0 kg

4.3 MPa

R32 1.10kg

675

0.74t

The product contains fluorinated greenhouse gases and its functioning relies upon such gases.

Manufacture date: On the bar code

AS68TDRHRA-THC (Indoor unit) with 1U68WEGFRA-C (Outdoor unit)

Haier   MODEL: AS68TDRHRA-THC Split type room air conditioner	Power supply 220-240V~,50Hz Anti-electric shock Class I Net Weight 11.6 kg Air volume 1000 m³/h Manufacture date XXXX / XX MADE IN P.R.C. Manufactured by Haier
  	0011526049

Haier   MODEL: 1U68WEGFRA-C Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.80
SEER	6.8
Heating Capacity (kW)	6.80
Pdesignh Capacity (kW)	5.60
SCOP	4.0
Rated power input (kW)	2.90
Rated current (A)	13.0
Power supply	1PH,220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	44.0 kg
Max work pressure	4.3 MPa
Refrigerant	R32 1.10kg
GWP	675
Equivalent CO ₂	0.74t
 IPX4	
    	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases.	
Manufacture date: On the bar code	

SGM18INVDHDI (Indoor unit) with SGM18INVDHDO (Outdoor unit)

  MODEL : SGM18INVDHDI INVERTER WALL MOUNTED TYPE INDOOR UNIT MADE FOR IKLIMSA MANUFACTURED DATE: xxxx / xx	POWER SUPPLY 1PH,220-240V~,50Hz COOLING CAPACITY 17060 (4430-19790) BTU/h HEATING CAPACITY 17740 (4770-20470) BTU/h COOLING RATED INPUT 2.0 kW HEATING RATED INPUT 2.5 kW OUTDOOR RESISTANCE CLASS IPX4	REFRIGERANT R32 MAXIMUM CURRENT 8.9A (COOLING) MAXIMUM CURRENT 11.3A (HEATING) NET WEIGHT 11.6kg EXCESSIVE OPERATING PRESSURE HI 4.3MPa LO 2.5MPa
	MANUFACTURER NAME: QINGDAO HAIER AIR CONDITIONER GENERAL CO.,LTD. MANUFACTURER ADD : QINGDAO HIGH-TECH. IND. PARK HAIER ROAD QINGDAO, SHANDONG 266101 P.R. CHINA. CONTAINS FLUORINATED GREENHOUSE GASES	Sigma Oracle Code 6.4001.9749 0011528975

  			
INVERTER WALL MOUNTED TYPE AIR CONDITIONER OUTDOOR UNIT			
MODEL		SGM18INVDHDO	
POWER SUPPLY		1PH,220-240V~,50Hz	
COOLING CAPACITY		17060 (4430-19790) BTU/h	
HEATING CAPACITY		17740 (4770-20470) BTU/h	
NET WEIGHT		32.7 kg	
REFRIGERANT		R32/900g	
COOLING RATED INPUT		2.0 kW	
HEATING RATED INPUT		2.5 kW	
CO ₂ EQUIVALENT		0.61 Tonnes	
GWP		675	
EXCESSIVE OPERATING PRESSURE		HI	4.3MPa
		LO	2.5MPa
OUTDOOR RESISTANCE CLASS			IPX4
MANUFACTURED DATE: xxxx/xx			
 MADE FOR IKLIMSA			
MANUFACTURER NAME: QINGDAO HAIER AIR CONDITIONER GENERAL CO.,LTD.			
MANUFACTURER ADD : QINGDAO HIGH-TECH. IND. PARK HAIER ROAD QINGDAO, SHANDONG 266101 P.R. CHINA.			
CONTAINS FLUORINATED GREENHOUSE GASES			

Sigma Oracle Code

0011528979

6.4001.9750

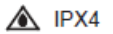
ESA1518A100 (Indoor unit) with ESB1518A100 (Outdoor unit)

  		Power supply Anti-electric shock Net Weight Air volume Nominal voltage(UVC) Rated power(UVC) Manufacture date	1PH,220~240V,50Hz Class I 11.6kg 900m³/h DC 12V 1.2W	 Wi-Fi APP
MODEL:ESA1518A100 Split tipi klima SPYLOS PRO 18000 BTU/h		Importer: EMAS MAKİNA SAN. A.Ş. Address: OSB III. Kısım, Keçiliköy OSB Mah. Mustafa Kemal Bulvarı No:13 45030 Yunusemre/ Manisa Made in China		
  		AABFTHED00 0011529423		

  	
MODEL: ESB1518A100 SPYLOS PRO 18000 BTU/h Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignnc Capacity (kW)	5.00
SEER	6.1
Heating Capacity (kW)	5.20
Pdesignnh Capacity (kW)	4.60
SCOP	4.0
Rated power input (kW)	2.50
Rated current (A)	11.3
Power supply	1PH,220~240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90 kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Importer:EMAS MAKİNA SAN. A.Ş. Address: OSB III. Kısım, Keçiliköy OSB Mah. Mustafa Kemal Bulvarı No:13 45030 Yunusemre/ Manisa Made in China Manufacture date:	
AABF4GE00 0011529428	

ESA1418A100 (Indoor unit) with ESB1418A100 (Outdoor unit)

  		Power supply Anti-electric shock Net Weight Air volume Nominal voltage(UVC) Rated power(UVC) Manufacture date	1PH,220~240V,50Hz Class I 11.6kg 900m³/h DC 12V 1.2W	 Wi-Fi APP
MODEL:ESA1418A100 Split tipi klima Niobe Blue 18000 BTU/h		Importer: EMAS MAKİNA SAN. A.Ş. Address: OSB III. Kısım, Keçiliköy OSB Mah. Mustafa Kemal Bulvarı No:13 45030 Yunusemre/ Manisa Made in China		
  		AABF5DE00 0011523622		

  	
MODEL: ESB1418A100 Niobe Blue 18000 BTU/h Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	5.00
SEER	6.1
Heating Capacity (kW)	5.20
Pdesignh Capacity (kW)	4.60
SCOP	4.0
Rated power input (kW)	2.50
Rated current (A)	11.3
Power supply	1PH,220~240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90 kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Importer:EMAS MAKİNA SAN. A.Ş. Address: OSB III. Kısım, Keçiliköy OSB Mah. Mustafa Kemal Bulvarı No:13 45030 Yunusemre/ Manisa Made in China Manufacture date:	
AABF63E01 0011529430	

Vitoclima 200-S/HE W2050MDH3 (Indoor unit) with Vitoclima 200-S/HE OSW2050MDH3 (Outdoor unit)

  		Power supply 1PH,220-240V~,50Hz Soğutma ve Isıtma Kapasitesi 5000W-5200W Net Weight 11.6kg Air volume 900m³/h Ses Basıncı Seviyesi 44dB(A)
MODEL : Vitoclima 200-S/HE W2050MDH3 DC INVERTER Split Klima İç Ünitesi		  
		VISSMANN Bar code 7335628XXXXXXX 0011528295

  	
MODEL: Vitoclima 200-S/HE OSW2050MDH3 DC INVERTER KLİMA DIŞ ÜNİTESİ	
Parametre	Değer
Soğutma Kapasitesi (W)	5000
Isıtma Kapasitesi (W)	5200
Soğutmada Çekilen Güç (W)	2000
Isıtmada Çekilen Güç (W)	2500
Ses Basıncı Seviyesi dB(A)	53
Soğutmada Nominal Güç (W)	1550
Isıtmada Nominal Güç (W)	1400
İşletim Basıncı Üfleme Tarafı	4.3 MPa
İşletim Basıncı Emiş Tarafı	2.5 MPa
Power supply	1PH, 220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90kg
GWP	675
Equivalent CO ₂	0.61t
 Nem Koruması : IPX4	
  	
 	
Florlu sera gazlarını içerir. SERİ NUMARASI:	
VISSMANN Bar code 7335629XXXXXXX 0011528297	

SGM24INVDHDI (Indoor unit) with SGM24INVDHDO (Outdoor unit)

 MODEL : SGM24INVDHDI INVERTER WALL MOUNTED TYPE INDOOR UNIT MADE FOR IKLIMSA MANUFACTURED DATE: xxxx / xx   	POWER SUPPLY 1PH,220-240V~,50Hz COOLING CAPACITY 23200 (7500-29000) BTU/h HEATING CAPACITY 23200 (8180-32410) BTU/h COOLING RATED INPUT 2.9 kW HEATING RATED INPUT 2.9 kW OUTDOOR RESISTANCE CLASS IPX4	REFRIGERANT R32 MAXIMUM CURRENT 13.0A (COOLING) MAXIMUM CURRENT 13.0A (HEATING) NET WEIGHT 11.6kg EXCESSIVE OPERATING PRESSURE HI 4.3MPa LO 2.5MPa
	MANUFACTURER NAME: QINGDAO HAIER AIR CONDITIONER GENERAL CO.,LTD. MANUFACTURER ADD: QINGDAO HIGH- TECH. IND. PARK HAIER ROAD QINGDAO, SHANDONG 266101 P.R. CHINA. CONTAINS FLUORINATED GREENHOUSE GASES	Sigma Oracle Code 6.4001.9751 0011528978

  			
INVERTER WALL MOUNTED TYPE AIR CONDITIONER OUTDOOR UNIT			
MODEL		SGM24INVDHDO	
POWER SUPPLY		1PH,220-240V~,50Hz	
COOLING CAPACITY		23200 (7500-29000) BTU/h	
HEATING CAPACITY		23200 (8180-32410) BTU/h	
NET WEIGHT		44.0 kg	
REFRIGERANT		R32/1100g	
COOLING RATED INPUT		2.9 kW	
HEATING RATED INPUT		2.9 kW	
CO ₂ EQUIVALENT		0.74 Tonnes	
GWP		675	
EXCESSIVE OPERATING PRESSURE		HI	4.3MPa
		LO	2.5MPa
OUTDOOR RESISTANCE CLASS		IPX4	
MANUFACTURED DATE: xxxx/xx			
		MADE FOR iKLIMSA	
MANUFACTURER NAME: QINGDAO HAIER AIR CONDITIONER GENERAL CO.,LTD.			
MANUFACTURER ADD : QINGDAO HIGH-TECH. IND. PARK HAIER ROAD QINGDAO, SHANDONG 266101 P.R. CHINA.			
CONTAINS FLUORINATED GREENHOUSE GASES			

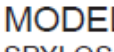
Sigma Oracle Code

0011528980

6.4001.9752

ESA1524A100 (Indoor unit) with ESB1524A100 (Outdoor unit)

  	Power supply Anti-electric shock Net Weight Air volume Manufacture date	1PH,220~240V,50Hz Class I 11.6kg 1000m³/h
MODEL:ESA1524A100 Split tipi klima SPYLOS PRO 24000 BTU/h	Importer: EMAS MAKİNA SAN. A.Ş. Address: OSB III. Kısım, Keçiliköy OSB Mah. Mustafa Kemal Bulvarı No:13 45030 Yunusemre/ Manisa Made in China	
  	0011529424	





MODEL: ESB1524A100

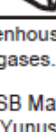
SPYLOS PRO 24000 BTU/h

Single split type room air conditioner outdoor unit

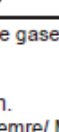
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.80
SEER	6.8
Heating Capacity (kW)	6.80
Pdesignh Capacity (kW)	5.60
SCOP	4.0
Rated power input (kW)	2.90
Rated current (A)	13.0

Power supply	1PH,220~240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	44.0 kg
Max work pressure	4.3 MPa
Refrigerant	R32 1.10 kg
GWP	675
Equivalent CO ₂	0.74t


IPX4





The product contains fluorinated greenhouse gases and its functioning relies upon such gases.
 Importer: EMAS MAKINA SAN. A.Ş.
 Address: OSB III. Kısım, Keçiliköy OSB Mah.
 Mustafa Kemal Bulvarı No:13 45030 Yunussemre/ Manisa
 Made in China
 Manufacture date: AABF4GE00 0011529429

Vitoclima 200-S/HE W2068MDH3 (Indoor unit) with Vitoclima 200-S/HE OSW2068MDH3 (Outdoor unit)

VIESSMANN  		Power supply	1PH, 220-240V~, 50Hz
MODEL : Vitoclima 200-S/HE W2068MDH3		Soğutma ve Isıtma Kapasitesi	6800W-6800W
DC INVERTER Split Klima İç Ünitesi		Net Weight	11.6 kg
  		Air volume	900m³/h
		Ses Basıncı Seviyesi	48dB(A)
		VISSMANN Bar code 7335630XXXXXXXXXX 0011528296	

VIESSMANN  	
MODEL: Vitoclima 200-S/HE OSW2068MDH3	
DC INVERTER KLİMA DIŞ ÜNİTESİ	
Parametre	Değer
Soğutma Kapasitesi (W)	6800
Isıtma Kapasitesi (W)	6800
Soğutmada Çekilen Güç (W)	2900
Isıtmada Çekilen Güç (W)	2900
Ses Basıncı Seviyesi dB(A)	57
Soğutmada Nominal Güç (W)	2110
Isıtmada Nominal Güç (W)	1830
İşletim Basıncı Üfleme Tarafı	4.3 MPa
İşletim Basıncı Emiş Tarafı	2.5 MPa
Power supply	1PH, 220-240V~, 50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	44.0 kg
Max work pressure	4.3 MPa
Refrigerant	R32 1.10kg
GWP	675
Equivalent CO ₂	0.74t
 Nem Koruması : IPX4	
  	
 	
Florlu sera gazlarını içerir.	
SERİ NUMARASI:	
VISSMANN Bar code 7335631XXXXXXXXXX 0011528296	

AS68RDAHRA-TU (Indoor unit) with 1U68MRAFRA-TU (Outdoor unit)

Haier CE 		Power supply 220-240V~,50Hz Anti-electric shock Class I Net Weight 11.6kg Air volume 1000m³/h Manufacture date Manufactured by Haier MADE IN P.R.C.
MODEL: AS68RDAHRA-TU Split type room air conditioner		
  		

Haier CE UK CA 	
MODEL: 1U68MRAFRA-TU Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	6.20
SEER	6.7
Heating Capacity (kW)	6.30
Pdesignh Capacity (kW)	4.60
SCOP	4.0
Rated power input (kW)	2.30
Rated current (A)	10.5
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	32.7 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.90 kg
GWP	675
Equivalent CO ₂	0.61t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: XXXX / XX Made in P.R.C.	
0011526465	

Note: The manufacturer confirmed that:

1) The label shall be attached on the external enclosure of the product, and visible after installation. But may be located on a panel that can be removed for installation or service, providing that the panel shall be in place for the intended operation of the appliance. The label indicates the name, registered trade name or registered trade mark and the postal address of the importer or authorized representatives. The postal address shall be a single point at which the importer or authorized representatives can be

contacted and in the European Union countries.

2) The content about a type, batch or serial number or other element allowing its identification shall be on above label or on a separate label which shall be clearly discernible from the outside of the appliance.

3) The height of CE marking shall be higher than 5mm and the height of WEEE marking shall be higher than 7mm and the height of operator's manual symbol, service indicator symbol, read operator's manual symbol and flame symbol on the nameplate shall be at least 10mm.

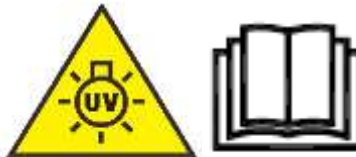


4) A label of the following symbol including colour and format shall be attached on the external enclosure and packing of the product, the height of which is at least 30mm.



5) Appliances (**Only for 18P model**) employing UV-C germicidal lamp systems shall be marked with ultraviolet radiation hazard symbol in the following locations:

- doors and access panels that provide direct access to an area within the appliance where the measured UV-C spectral irradiance is greater than 1,7 $\mu\text{W}/\text{cm}^2$;
- user maintenance access panels.



5) A label containing the name and address of the manufacturer shall be attached on the external enclosure of the product.

6) A label containing the information for F-gas shall be attached on the external enclosure of the product, which include the below information at least

(EN)Contains fluorinated greenhouse gases.			
(ES)Contiene gases fluorados de efecto invernadero.			
(DE)Enthält fluorierte Treibhausgase.			
(FR)Contient des gaz à effet de serre fluorés.			
(IT)Contiene gas fluorurati ad effetto serra.			
(PT)Contém gases fluorados com efeito de estufa.			
(DA)Indeholder fluorholdige drivhusgasser.			
(NL)Bevat gefluoreerde broeikasgassen.			
(SV)Innehåller fluorerade växthusgaser.			
(EL)Περιέχει φθοριούχα αέρια θερμοκηπίου.			
(SK)Obsahuje fluórovane skleníkové plyny.			
Refrigerant - Refrigerante - Kühlmittel			
- Fluide frigorigènes - Refrigerante			
- Refrigerante - Kølemiddel - Koelstof			
- Kylnings - Μεσο - Chladivo			
(A)GWP, PCA, GWP, PRP, GWP, PAG, GWP, GWP, GWP, GWP, GWP			
Additional Charge - Carga Adicional			
- Zusätzliche Füllmenge - Charge			kg
- supplémentaire - Carica aggiuntiva :			
- Carga adicional - Ekstra påfyldning			
- Extra vulling - Ytterligere påfyllning			
- Πρόσθετη πλήρωση - Další poplatky			
(B)Total Charge - Carga Total			
- Gesamtfüllmenge - Charge totale			kg
- Carica totale - Carga total :			
- Samlet påfyldning - Totale vulling			
- Totalpåfyllning - Συνολική πλήρωση			
- Celkové poplatky			
tCO₂ = (A) × (B) / 1000			tCO ₂

Test item particulars : Split type air conditioner	
Classification of installation and use : Stationary appliance	
Supply Connection : Connection to fixed wiring	
Possible test case verdicts: - test case does not apply to the test object: N/A - test object does meet the requirement.....: P (Pass) - test object does not meet the requirement: F (Fail)	
Testing: Date of receipt of test item: 2023-01-01 Date (s) of performance of tests: 2023-01-01 to 2023-01-16	
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☒ comma / ☐ point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60335-2-40:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies): Qingdao Haier Air Conditioner Electric Co., Ltd. Haier industrial Park, No.236, Qianwangang Road, Qingdao Eco-tech Development Zone, Qingdao 266555, China.	

General product information and other remarks:

1. The appliances are split-system air conditioners. The appliance is mainly composed of compressor, evaporator, condenser, capillary, 4-way valve, UVC sterilization module, WIFI module (optional). They are used to achieve heating and cooling, sterilization and other functions. The rated voltage is 220-240V, rated frequency is 50Hz. The refrigerant is R32.
2. The indoor unit shall be installed at the 2.5 m of height above floor.
3. The power is supplied by connecting fixed wiring, and shall be installed in accordance with the user manual and national electric regulation.
4. The difference between "AS18PDAHRA (Indoor unit) with 1U18MEGFRA (Outdoor unit)" and "AS50PDAHRA (Indoor unit) with 1U50MEGFRA (Outdoor unit)" are model name only.
5. Other model, detail see bellow table:

No.	Indoor unit	Outdoor unit
1	AS18TDDHRA (Indoor unit)	1U18MEGFRA (Outdoor unit)
2	AS50TDMHRA-C (Indoor unit)	1U50MEMFRA-C (Outdoor unit)
3	AS50TDDHRA-CLC (Indoor unit)	1U50MEGFRA (Outdoor unit)
4	FP-18HT/21 (Indoor unit)	FP-18HTD/21 (Outdoor unit)
5	AS18NDDHRA (Indoor unit)	1U18MEGFRA (Outdoor unit)
6	AS50TDDHRA-TU (Indoor unit)	1U50MEMFRA-TU (Outdoor unit)
7	AS50PDAHRA-TU (Indoor unit)	1U50MEGFRA-TU (Outdoor unit)

For outdoor unit: all outdoor unit machines are the same.

- a) The model "1U50MEMFRA-C (Outdoor unit)" is same as model "1U18MEGFRA (Outdoor unit)" except model name only.
- b) The model "FP-18HTD/21 (Outdoor unit)" is same as model "1U18MEGFRA (Outdoor unit)" except model name and trade mark only.
- c) The model "1U50MEMFRA-TU (Outdoor unit)" is same as model "1U18MEGFRA (Outdoor unit)" except model name only.
- d) The model "1U50MEGFRA-TU (Outdoor unit)" is same as model "1U18MEGFRA (Outdoor unit)" except model name only.

For indoor unit: adding new indoor machines. The new machine does not include UV-C lamp.

- a) The model "AS50TDMHRA-C (Indoor unit)" is same as model "AS18TDDHRA (Indoor unit)" except model name only.
- b) The model "AS50TDDHRA-CLC (Indoor unit)" is same as model "AS18TDDHRA (Indoor unit)" except model name only.
- c) The model "FP-18HT/21 (Indoor unit)" is same as model "AS18TDDHRA (Indoor unit)" except model name and trade mark only.
- d) The model "AS50TDDHRA-TU (Indoor unit)" is same as model "AS18TDDHRA (Indoor unit)" except model name only.
- e) The model "AS50PDAHRA-TU (Indoor unit)" is same as model "AS18PDAHRA (Indoor unit)" except model name only.
- f) The model "AS18NDDHRA (Indoor unit)" is same as model "AS18TDDHRA (Indoor unit)" except model name and control PCB only. Model "AS18NDDHRA (Indoor unit)" used control PCB of "0011800646" and model "AS18TDDHRA (Indoor unit)" used control PCB of "0011800646D". Control PCB of "0011800646" and "0011800646D" only due to the different software, resulting in the control of stepper motor rotation direction is different.

6. The model AS24TDRHRA (Indoor unit) with 1U24MRAFRA (Outdoor unit) is difference from model AS50PDAHRA (Indoor unit) with 1U50MEGFRA (Outdoor unit) is model name only.
7. The model AS24PDAHRA (Indoor unit) with 1U24WEGFRA (Outdoor unit) is difference from model AS18PDAHRA (Indoor unit) with 1U18MEGFRA (Outdoor unit) is outdoor unit and model name only.
8. The model AS68PDAHRA (Indoor unit) with 1U68WEGFRA (Outdoor unit) is difference from model AS24PDAHRA (Indoor unit) with 1U24WEGFRA (Outdoor unit) is model name and only.
9. model "TRK24INVDMEI (Indoor unit) with TRK24INVDMEO (Outdoor unit)" and "OLE-24DIH (Indoor unit) with OLE-24DIH (Outdoor unit)", which were marked in "Bold" in page 2. "TRK24INVDMEI (Indoor unit) with TRK24INVDMEO (Outdoor unit)" and "OLE-24DIH (Indoor unit) with OLE-24DIH (Outdoor unit)" are both identical with the original model "AS24TDRHRA

Supplement "A2" to Test report No: "ABUV-ESH-P22090046" dated on 2022-09-06

(Indoor unit) with 1U24MRAFRA (Outdoor unit)" except rated power input marking, model name and trade mark.

ABUV-ESH-P22090046-A1:

The original report ABUV-ESH-P22090046 dated on 2022-09-06 was modified on 2023-01-16 to include the following changes, which were considered as technical modifications:

1. Adding new model "**SGM18INVDHDI (Indoor unit) with SGM18INVDHDO (Outdoor unit)**", "**ESA1518A100 (Indoor unit) with ESB1518A100 (Outdoor unit)**", "**ESA1418A100 (Indoor unit) with ESB1418A100 (Outdoor unit)**" and "**Vitoclima 200-S/HE W2050MDH3 (Indoor unit) with Vitoclima 200-S/HE OSW2050MDH3 (Outdoor unit)**", which were marked in "Bold" in page 2. They are both identical with the original model "AS24TDRHRA (Indoor unit) with 1U24MRAFRA (Outdoor unit)" except rated power input marking, model name and trade mark.
2. Adding new model "**SGM24INVDHDI (Indoor unit) with SGM24INVDHDO (Outdoor unit)**", "**ESA1524A100 (Indoor unit) with ESB1524A100 (Outdoor unit)**" and "**Vitoclima 200-S/HE W2068MDH3 (Indoor unit) with Vitoclima 200-S/HE OSW2068MDH3 (Outdoor unit)**", which were marked in "Bold" in page 2. They are both identical with the original model "AS24TDRHRA (Indoor unit) with 1U24MRAFRA (Outdoor unit)" except rated power input marking, model name and trade mark.

After technical evaluation, Cl. 7.1, Cl. 10 and 24 were checked. Other test data were based on the original report.

ABUV-ESH-P22090046-A2:

The original report ABUV-ESH-P22090046+A1 dated on 2022-09-06, 2023-01-16 was modified on 2023-03-30 to include the following changes, which were considered as technical modifications:

- a) Adding new model "**AS68RDAHRA-TU (Indoor unit) with 1U68MRAFRA-TU (Outdoor unit)**", which were marked in "Bold" in page 2. They are both identical with the original model "AS24TDRHRA (Indoor unit) with 1U24MRAFRA (Outdoor unit)" except rated power input marking, model name and trade mark.
- b) Correct some information in CDF which were bold in table 24.1.
- c) Add new factory of main control PCB board.
- d) Add new relay and varistor which were bold in table 24.1.

After technical evaluation, Cl. 7.1, Cl. 10, Cl.24 and Cl.30 were checked.

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict

7	MARKING AND INSTRUCTIONS		P
7.1	Rated voltage or voltage range (V)	220-240	P
	Symbol for nature of supply, or	~	P
	Rated frequency (Hz).....	50	P
	Rated power input (W), or	See marking plates	P
	Rated current (A)	See marking plates	P
	Manufacturer's or responsible vendor's name, trademark or identification mark.....	See marking plates	P
	Model or type reference	See marking plates	P
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0.....	IPX4	P
	Symbol IEC 60417-5180, for class III appliances, unless		N/A
	the appliance is operated by batteries only, or		N/A
	for appliances powered by rechargeable batteries recharged in the appliance		N/A
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	Class I appliance	N/A
	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage		N/A
	Mass of refrigerant or of each refrigerant in blend (except for azeotropic type) (IEC 60335-2-40).....	See marking plates	P
	Refrigerant identification (IEC 60335-2-40)	R32	P
	Permissible excessive operating pressure for sanitary hot water heat pumps (IEC 60335-2-40):.		N/A
	Maximum operating pressure for heat exchanger for hydronic fan coil/air handling units (IEC 60335-2-40/AMD2)		N/A
	Permissible excessive operating pressure of refrigerant circuit for suction and discharge, if they differ (IEC 60335-2-40)	See marking plates	P
	Symbol for degree of protection against ingress of water, other than IPX0 (IEC 60335-2-40).....	IPX4	P
	Separate marking of appliances with all rated characteristics of supplementary heaters (IEC 60335-2-40)		N/A
	Marking of direction of fluid flow (IEC 60335-2-40)	Evident from the design	N/A
	Flame symbol and instruction manual symbol of 7.6 visible when flammable refrigerant employed and following conditions exist (IEC 60335-2-40/AMD1):		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- accessing parts expected to be subjected to maintenance or repair (IEC 60335-2-40/AMD1);		P
	- observing appliance under sale or installed conditions (IEC 60335-2-40/AMD1);		P
	- observing appliance packaging, if appliance charged with refrigerant (IEC 60335-2-40/AMD1).		P
	If flammable refrigerant used, symbols for "read operator's manual", "operator's manual; operating instructions" and "service indicator; read technical manual" (symbols 0790, 1641 and 1659 of ISO 7000) placed on appliance in location visible to persons required to know information. Perpendicular height be at least 10 mm (IEC 60335-2-40/AMD1/COR1)		P
	Additional warning symbol (flame symbol: B.3.2 of ISO 3864) placed on nameplate of unit near declaration of refrigerant type and charge information. Perpendicular height be at least 10 mm, and symbol need not be in colour (IEC 60335-2-40/AMD1)		P
	Following warning also applied to appliance when flammable refrigerant employed. WARNING Appliance shall be installed, operated and stored in a room with a floor area larger than 'X' m ² (only applies to appliances that are not fixed appliances) (IEC 60335-2-40/AMD1)	Fixed appliances	N/A
	Not fixed appliances, minimum room size X specified on appliance. X in marking determined in m ² by procedure described in paragraph 2 of annex GG for unventilated areas and X in marking be 4 if refrigerant charge of appliance is less than m ₁ (see annex GG, paragraph 1.1) (IEC 60335-2-40/AMD1)		N/A
	Maximum allowable pressure for low-pressure side and high-pressure side marked on product (IEC 60335-2-40/AMD1)	Max. 4,3MPa	P
	If not already visible when accessing service port and if service port provided, service port marked to identify type of refrigerant. If refrigerant is flammable, symbol B.3.2 of ISO 3864, be included, without specifying the colour (IEC 60335-2-40/AMD1)		P
7.2	Warning for stationary appliances for multiple supply		N/A
	Warning placed in vicinity of terminal cover		N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	220-240V	P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Different rated values marked with the values separated by an oblique stroke		N/A
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible		N/A
	Requirement met if frequent changes are not required and the rated voltage to which the appliance is to be adjusted is determined from a wiring diagram		N/A
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless		N/A
	the power input is related to the arithmetic mean value of the rated voltage range		P
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		N/A
7.6	Correct symbols used		P
	Flammable refrigerant, warning symbol B.3.2 of ISO 3864, including colour and format, permanently placed on appliance. Perpendicular height of triangle containing "Caution, risk of fire" symbol be at least 30 mm (IEC 60335-2-40/AMD1)		P
	Flammable refrigerant, symbol requiring reference to manual [0790 of ISO 7000], including colour and format, permanently placed on appliance (IEC 60335-2-40/AMD1/COR1)		P
	Symbol for nature of supply placed next to rated voltage	~	P
	Symbol for class II appliances placed unlikely to be confused with other marking		N/A
	Units of physical quantities and their symbols according to international standardized system		P
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless		P
	correct mode of connection is obvious		N/A
7.8	Except for type Z attachment, terminals for connection to the supply mains indicated as follows:		P
	- marking of terminals exclusively for the neutral conductor (letter N)		P
	- marking of protective earthing terminals (symbol IEC 60417-5019)		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- marking of functional earthing terminals (symbol IEC 60417-5018)		N/A
	- marking not placed on removable parts		P
7.9	Marking or placing of switches which may cause a hazard		N/A
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means..... :	Patterns, letters and visual means used for the controller of indoor units	P
	This applies also to switches which are part of a control		N/A
	If figures are used, the off position indicated by the figure 0		N/A
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		P
7.11	Indication for direction of adjustment of controls		P
7.12	Instructions for safe use provided		P
	Details concerning precautions during user maintenance		P
	Appliances not accessible to general public, classification of clause 6.101 included (IEC 60335-2-40)		N/A
	Appliances using flammable refrigerants, an installation, service and operation manual, either separate or combined manuals, provided and include information given in annex DD (IEC 60335-2-40/AMD1)		P
	The instructions state that:		-
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction	Replaced by EN 60335-1	N/A
	- children being supervised not to play with the appliance	Replaced by EN 60335-1	N/A
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		N/A
	Instructions for class III appliances state that it must only be supplied at SELV, unless		N/A
	it is a battery-operated appliance, the battery being charged outside the appliance		N/A
	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated :		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only		N/A
7.12.1	Sufficient details for installation supplied		P
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated		N/A
	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance.		N/A
	Sufficient details for installation or maintenance supplied (IEC 60335-2-40):		P
	- that the appliance shall be installed in accordance with national wiring regulations (IEC 60335-2-40);		P
	- the dimensions of the space necessary for correct installation of the appliance including the minimum permissible distance to adjacent structures (IEC 60335-2-40);		P
	- for appliances with supplementary heaters, the minimum clearance from the appliance to combustible surfaces (IEC 60335-2-40);		N/A
	- a wiring diagram with a clear indication of the connections and wiring to external control devices and supply cord (IEC 60335-2-40);		P
	- the range of external static pressures at which the appliance was tested (add-on heat pumps and appliances with supplementary heaters only) (IEC 60335-2-40);		N/A
	- the method of connection to the appliance to the electrical supply and interconnection of separate components (IEC 60335-2-40);		P
	- indication of which parts of the appliance are suitable for outdoor use, if applicable (IEC 60335-2-40);		P
	- details of type and rating of fuses (IEC 60335-2-40);		P
	- details of supplementary heating elements that may be used in conjunction with the appliance, including fitting instructions either with the appliance or with the supplementary heater (IEC 60335-2-40);		N/A
	- maximum and minimum water or brine operating temperatures (IEC 60335-2-40);		N/A
	- maximum and minimum water or brine operating pressures (IEC 60335-2-40).		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Open storage tanks of heat pumps for water heating, accompanied by an instruction sheet which state that the vent shall not be obstructed (IEC 60335-2-40)		N/A
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules		P
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected		N/A
7.12.4	Instructions for built-in appliances:		N/A
	- dimensions of space		N/A
	- dimensions and position of supporting and fixing		N/A
	- minimum distances between parts and surrounding structure		N/A
	- minimum dimensions of ventilating openings and arrangement		N/A
	- connection to supply mains and interconnection of separate components		N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless		N/A
	a switch complying with 24.3		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
	Replacement cord instructions, type Y attachment		P
	Replacement cord instructions, type Z attachment		N/A
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard		N/A
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed		P
7.12.8	Instructions for appliances connected to the water mains:		-
	- max. inlet water pressure (Pa):		N/A
	- min. inlet water pressure, if necessary (Pa).....:		N/A
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance		P
	These instructions may be supplied with the appliance separately from any functional use booklet	Incorporated in the user manual	N/A
	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches		P
	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD		P
	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD :	Available on the manufacturer's website	P
7.13	Instructions and other texts in an official language		P
7.14	Markings clearly legible and durable:		P
	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified :	In uppercase and 3,6mm	P
	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm :	2,5mm	P
	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless		P
	contrasting colours are used		N/A
	Markings checked by inspection, measurement and rubbing test as specified		P
7.15	Markings on a main part		P
	Marking clearly discernible from the outside, if necessary after removal of a cover		P
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		P
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		P
	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Marking on panel allowed, provided panel in place for intended operation of appliance (IEC 60335-2-40)		P
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		P
7.101	Marking of fuses and overload protective devices, if replaceable (IEC 60335-2-40):		P
	- fuse rated current in amperes, type and rated voltage or (IEC 60335-2-40)		P
	- manufacturer and model of overload protective device (IEC 60335-2-40)		N/A
7.102	Marking for connection with aluminium wire, if necessary (IEC 60335-2-40)		N/A
10	POWER INPUT AND CURRENT		P
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1. :	(see appended table)	P
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the power input is the arithmetic mean value		N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated power input is related to the arithmetic mean value		P
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2..... :	(see appended table)	P
	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the current is the arithmetic mean value		N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated current is related to the arithmetic mean value of the range		P

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Clause	Requirement + Test	Result - Remark	Verdict
24	COMPONENTS		P
24.1	Components comply with safety requirements in relevant IEC standards		P
	List of components..... :	(see appended table)	P
	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance		P
	Relays tested as part of the appliance, or		P
	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1		P
	The requirements of clause 29 apply between live parts of components and accessible parts of the appliance		P
	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard		P
	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections		P
	Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2		P
	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met		P
	If these conditions are not satisfied, the component is tested as part of the appliance.		P
	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance		P
	If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard	No lampholder or starterholder	N/A
	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309	No plug	N/A
	Motor-compressors not tested according to IEC 60335-2-34 (not necessary to meet all requirements of IEC 60335-2-34) (IEC 60335-2-40)		N/A
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14		P
	If the capacitors have to be tested, they are tested according to annex F		N/A
24.1.2	Transformers in associated switch mode power supplies comply with annex BB of IEC 61558-2-16		N/A
	Safety isolating transformers complying with IEC 61558-2-6		N/A
	If they have to be tested, they are tested according to annex G		P
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000		N/A
	If they have to be tested, they are tested according to annex H		N/A
	If the switch operates a relay or contactor, the complete switching system is subjected to the test		N/A
	If the switch only operates a motor starting relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		N/A
24.1.4	Automatic controls complying with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:		P
	- thermostats: 10 000		N/A
	- temperature limiters: 1 000		N/A
	- self-resetting thermal cut-outs: 3000		P
	- voltage maintained non-self-resetting thermal cut-outs: 1 000		N/A
	- other non-self-resetting thermal cut-outs: 300		N/A
	- timers: 3 000		N/A
	- energy regulators: 10 000		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- thermostats which control motor-compressor (IEC/EN 60335-2-40): 100 000		N/A
	- motor-compressor starting relays (IEC/EN 60335-2-40): 100 000	100000	P
	- automatic thermal motor-protectors for hermetic and semi-hermetic type motor-compressors (not less than number of operations during locked rotor test) (IEC/EN 60335-2-40):..... min 2000		N/A
	- manual reset thermal motor-protectors for hermetic and semi-hermetic type motor-compressors (IEC/EN 60335-2-40): 50		N/A
	- other automatic thermal motor-protectors (IEC/EN 60335-2-40): 2000		N/A
	- other manual reset thermal motor-protectors (IEC/EN 60335-2-40): 30		N/A
	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited		P
	Thermal motor protectors are tested in combination with their motor under the conditions specified in annex D		N/A
	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection declared for subclause 6.5.2 of IEC 60730-2-8 is IPX7		N/A
	Thermal cut-outs of the capillary type comply with the requirements for type 2.K controls in IEC 60730-2-9		N/A
24.1.5	Appliance couplers complying with IEC 60320-1		N/A
	However, for appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3		N/A
	Interconnection couplers complying with IEC 60320-2-2		N/A
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable		N/A
24.1.7	For remote operation of the appliance via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151		N/A
24.1.8	The relevant standard for thermal links is IEC 60691		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of clause 19		N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance		P
	They are also tested in accordance with clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance	10 000 cycles	P
24.2	Appliances not fitted with:		P
	- switches or automatic controls in flexible cords		P
	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		P
	- thermal cut-outs that can be reset by soldering, unless		P
	the solder has a melting point of at least 230 °C		N/A
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and have a contact separation in all poles, providing full disconnection under overvoltage category III conditions		N/A
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1		P
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly	No motor capacitor	N/A
	Voltage across capacitors in series with a motor winding does not exceed 1,1 times rated voltage, when the appliance is supplied at 1,1 times rated voltage under minimum load		N/A
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V		N/A
	In addition, the motors comply with the requirements of annex I		N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770		N/A
	They are supplied with the appliance		N/A
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure	No motor capacitor	N/A
	One or more of the following conditions are to be met:		N/A
	- the capacitors are of class P2 according to IEC 60252-1		N/A
	- the capacitors are housed within a metallic or ceramic enclosure		N/A
	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm		N/A
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of annex E		N/A
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10		N/A
24.101	Replaceable parts of thermal control devices identified by marking (IEC 60335-2-40)		N/A
30	RESISTANCE TO HEAT AND FIRE		P
30.1	External parts of non-metallic material,		P
	parts supporting live parts, and		P
	parts of thermoplastic material providing supplementary or reinforced insulation		P
	sufficiently resistant to heat		P
	Ball-pressure test according to IEC 60695-10-2		P
	External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C)..... :	(see appended table 30.1)	P
	Parts supporting live parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 125 °C, whichever is the higher; temperature (°C) :	(see appended table)	P
	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C)..... :	(see appended table)	P
30.2	Parts of non-metallic material resistant to ignition and spread of fire		P
	This requirement does not apply to:		N/A
	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance		N/A
	Compliance checked by the test of 30.2.1, and in addition:		P
	- for attended appliances, 30.2.2 applies		N/A
	- for unattended appliances, 30.2.3 applies		P
	For appliances for remote operation, 30.2.3 applies		P
	For base material of printed circuit boards, 30.2.4 applies		P
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C	(see appended table 30.2)	P
	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or		N/A
	the material is classified at least HB40 according to IEC 60695-11-10		N/A
	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF		N/A
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2		P
	The tests are not applicable to conditions as specified		N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and		P
	parts of non-metallic material, other than small parts, within a distance of 3 mm,		P
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table 30.2)	P
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C		P
30.2.3.2	Parts of non-metallic material supporting connections, and		P
	parts of non-metallic material within a distance of 3 mm,		P
	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table 30.2)	P
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- 650 °C, for other connections		P
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	However, the glow-wire test of 750 °C or 650 °C as appropriate, is not carried out on parts of material fulfilling both or either of the following classifications:		N/A
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:		N/A
	- 775 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 675 °C, for other connections		N/A
	- a glow-wire flammability index according to IEC 60695-2-12 of at least:		N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	The glow-wire test is also not carried out on small parts. These parts are to:		N/A
	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of annex E, or		N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
	The consequential needle-flame test of annex E applied to non-metallic parts that encroach within the vertical cylinder placed above the centre of the connection zone and on top of the non-metallic parts supporting current-carrying connections, and parts of non-metallic material within a distance of 3 mm of such connections if these parts are those:		N/A
	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or		N/A
	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts for which the needle-flame test of annex E was applied, or		N/A
	- small parts for which a material classification of V-0 or V-1 was applied		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	However, the consequential needle-flame test is not carried out on non-metallic parts, including small parts, within the cylinder that are:		N/A
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or		N/A
	- parts shielded by a flame barrier that meets the needle-flame test of annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of annex E	(see appended table 30.2/30.2.4)	N/A
	Test not applicable to conditions as specified.....:	V-0 for PCB material	P

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10.1	TABLE: Power input deviation					P
Input deviation of/at:	P rated (W)	P measured (W)	ΔP	Required ΔP	Remark	
AS68RDAHRA-TU (Indoor unit) with 1U68MRAFRA-TU (Outdoor unit)						
230V/50Hz (Cooling mode)	2300	1795,1	-21,95%	$\leq +15\%$	P	
230V/50Hz (Heating mode)	2300	2086,5	-9,28%	$\leq +15\%$	P	
Supplementary information: Test conditions are as follows: Cooling mode: Outdoor 43(D)/-(W), Indoor 32(D)/23(W) & Outdoor 38(D)/-(W), Indoor 32(D)/23(W); Heating mode: Outdoor 24(D)/18(W), Indoor 27(D)/--(W) & Outdoor 2(D)/1(W), Indoor 20(D)/-(W).						

10.2	TABLE: Current deviation					P
Input deviation of/at:	I rated (A)	I measured (A)	ΔI	Required ΔI	Remark	
AS68RDAHRA-TU (Indoor unit) with 1U68MRAFRA-TU (Outdoor unit)						
230V/50Hz (Cooling mode)	10,5	7,83	-25,43%	$\leq +15\%$	P	
230V/50Hz (Heating mode)	10,5	9,02	-14,10%	$\leq +15\%$	P	
Supplementary information: Test conditions are as follows: Cooling mode: Outdoor 43(D)/-(W), Indoor 32(D)/23(W) & Outdoor 38(D)/-(W), Indoor 32(D)/23(W); Heating mode: Outdoor 24(D)/18(W), Indoor 27(D)/--(W) & Outdoor 2(D)/1(W), Indoor 20(D)/-(W).						

24.1	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity	
Terminal block	Changzhou Changheng Kaidu Electric Products Co., Ltd	JXW/JX/JXG Series	AC 600V; 4,0mm ²	EN 60998-2-1:2004 EN 61210:2010 EN 60998-1:2004	VDE 40042595	
Alternative	Nantong Huaguan Electric Co., Ltd	JXW/JX/JXO Series	AC 600V; 4,0mm ²	EN 60998-2-1:2004 EN 61210:2010 EN 60998-1:2004	VDE 40013197	
Alternative	Zhenjiang Honglian Electrician Co., Ltd.	JX Series	AC 600V; 4,0mm ²	EN 60998-2-1:2004 EN 61210:2010 EN 60998-1:2004	VDE 40044499	
Alternative	Foshan Shunde Yuanfeng Metal Electrical Appliances Co., Ltd.	YF2004A YF Series	AC 600V; 4,0mm ²	EN 60998-2-1:2004 EN 60998-1:2004	TUV 50425702	
Power Cord	Guangdong Rifeng Electrical Cable Co., Ltd.	H07RN-F	450/750V 3G 1,5mm ² 3G 2,5mm ²	EN 50525-2-21:2011	VDE 40015999	
Alternative	Guangdong Huasheng Electrical Appliances Co., Ltd.	H07RN-F	450/750V 3G 1,5mm ² 3G 2,5mm ²	EN 50525-2-21:2011	VDE 40016788	
Alternative	Yangzhou Huasheng Electronics Industrial Co., Ltd .	H07RN-F	450/750V 3G 1,5mm ² 3G 2,5mm ²	EN 50525-2-21:2011	VDE 40030537	

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Alternative	Weihai Honglin Electronic Co.,Ltd .	H07RN-F	450/750V 3G 1,5mm ² 3G 2,5mm ²	EN 50525-2-21:2011	VDE 40031965
Interconnection Cord	Guangdong Rifeng Electrical Cable Co., Ltd.	H07RN-F	450/750V 4G 1,0 mm ²	EN 50525-2-21:2011	VDE 40015999
Alternative	Guangdong Huasheng Electrical Appliances Co.,Ltd.	H07RN-F	450/750V 4G 1,0 mm ²	EN 50525-2-21:2011	VDE 40016788
Alternative	Yangzhou Huasheng Electronics Industrial Co.,Ltd .	H07RN-F	450/750V 4G 1,0 mm ²	EN 50525-2-21:2011	VDE 40030537
Alternative	Weihai Honglin Electronic Co.,Ltd .	H07RN-F	450/750V 4G 1,0 mm ²	EN 50525-2-21:2011	VDE 40031965
Internal wire	Hefei Deren Electronic Device Co., Ltd.	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E338621+ Test with appliance
Alternative	Qingdao Riken Wire & Cable Co., Ltd	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E212103 + Test with appliance
Alternative	CHINA LONISID ELECTRIC CO., LTD.	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E205056 + Test with Appliance
Alternative	Weihai Honglin Electronic Co., Ltd	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 603 35-2-40	UL E239426 + Test with appliance
Alternative	Xinya Electronic Co., Ltd.	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E170689 + Test with appliance
Alternative	TITION ELECTRIC WIRE GROUP CO.,LTD.	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E216894 + Test with appliance
Alternative	ZHEJIANG YUEQING XINGDA ELECTRONICS WIRE&CABLE CO.,LTD.	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E187208 + Test with appliance
Alternative	WENZHOU HU TAI ELECTRIC WIRE&CABLE CO.,LTD.	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E238824 + Test with appliance
Alternative	LTK ELECTRIC WIRE (HUIZHOU) LTD	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E148000 + test with appliance
Alternative	JIANGYIN JIANGZHOU COPPER PRODUCT CO LTD	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E341212 + test with appliance

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Alternative	ZHEJIANG LONDA ELECTRONIC WIRE & CABLE CO LTD	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E205056 + test with appliance
Alternative	TAIZHOU RISHUN ELECTRIC APPLIANCE DEVELOPMENT CO LTD	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E237675 + test with appliance
Alternative	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL COLTD	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	UL E227566 + test with appliance
Alternative	LINOYA ELECTRONIC TECHNOLOGY CO., LTD.	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Dongguan Linoya Wire & Cable CO.,LTD.	UL1015 UL3173	14, 16, 18, 20, 22 AWG	EN 60335-1 EN 60335-2-40	Test with appliance
Critical component on outdoor unit					
Compressor for 18K	SHANGHAI HIGHLY ELECTRECAL APPLIANCES CO., LTD	GTD130RKRF 8LV6B	=== 200V; 600-7200r/min; R32; Class B; winding: 1,982Ω at 20°C	EN 60335-1 EN 60335-2-40	Test with appliance
Compressor for 24K	MITSUBISHI ELECTRIC (GUANGZHOU) COMPRESSOR CO., LTD	SVB172FNQM C-L2	27-200V, 30-390Hz, R32, winding:1,96 Ω at 20°C	EN 60335-1 EN 60335-2-40	Test with appliance
Outdoor fan motor for 18K	Wolong Electric (Ji nan) Motor Co., Ltd.	WZD-A01025L-01A	DC 310V, 25W, Class B	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	NIDEC SHIBAURA (Zhejiang) CORPORATION	SIC-54FM-F125-1	DC 310V, 25W, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Jeamo Motor Co., Ltd.	YMA040BL01S 7	DC 310V, 25W, Class B	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	ZHONGSHAN BROAD-OCEAN MOTOR CO., LTD.	ZW465A50001 4	DC 310V, 25W, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Outdoor fan motor for 24K	Wolong Electric (Ji nan) Motor Co., Ltd.	WZD-A02090L-01A	DC310V, 10P, 90W, 900r/min, IP44, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	ZHONGSHANG BROAD OCEAN	ZW511B50004 3	DC310V, 10P, 90W, 900r/min, IP44, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
4-way valve for 18K	Zhejiang Dun'an Artificial Environment Co., Ltd.	DSF-4	AC 220-240V; 50/60Hz; Class E	EN 60730-1:2011	VDE 40013212
Alternative	Zhejiang Sanhua Intelligent Controls Co., Ltd.	SHF-4H-23U-P/ SHF-4-10L3	AC 220-240V; 50/60Hz; Class E	EN 60730-1:2011	VDE 40048077
Alternative	OKAYAMA SEIKO (ZHONG SHAN) CO.,LTD.	DSF-C4-23-1	AC 220-240V; 50/60Hz; Class E	EN 60730-1:2011	VDE 40044501

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Alternative	ZHONGSHAN CITY GANGLI REFRIGERATION FITTINGS CO.,LTD.	SHF-4	AC 220-240V; 50/60Hz; Class E	EN 60730-1:2011	VDE 40026249
4-way valve for 24K	Zhejiang Sanhua Intelligent Controls Co., Ltd	SHF-7H-34U-P SHF-4-10L3	AC220-240V, 50/60Hz, 4,5/3,5W	EN 60730-1:2011	VDE 40048077
Alternative	Zhejiang Dun'an Artificial Environment Co., Ltd.	DSF-9	AC 220-240V, 50/60Hz, 7/5W	EN 60730-1:2011	VDE 40013212
Alternative	ZHONGSHAN CITY GANGLI REFRIGERATION FITTINGS CO., LTD.	SHF-7	AC220-240V, 50/60Hz, 4,5/3,5W	EN 60730-1:2011	VDE 40026249
Alternative	OKAYAMA SEIKO (ZHONG SHAN) CO., LTD.	DSF-C7-34-1	AC220-240V, 4,5/3,5W, 50/60Hz, IP54	EN 60730-1:2011	VDE 40044501
Reactor for 18K outdoor	Nantong DPC Electronics Co., Ltd.	DPC1552A-PR	5,20mH/15A, Class N	EN 60335-1 EN 60335-2-40	Test with appliance
-Alternative	QINGDAO YUNLU ENERGY TECHNOLOGY CO.,LTD.	R1505HRA	5,2mH/15A, Class N	EN 60335-1 EN 60335-2-40	Test with appliance
Reactor for 24K outdoor	QINGDAO YUNLU ENERGY TECHNOLOGY CO., LTD.	R2050HR	5,20mH/20A, Class N	EN 60335-1 EN 60335-2-40	Test with appliance
Outdoor control PCB for 18K	Chearihi (Anhui) Technology Co., Ltd	0011801039	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Qingdao Haier Intelligent Electronics Co., Ltd.	0011801039	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Ruking Emerson Climate Technologies (Shanghai) Co., Ltd.	0011801039	AC 220-240V, 50Hz	EN 60335 -2-40	Test with appliance
Alternative	Guangdong Shangyan Electronic Technology Co., Ltd.	0011801039	AC 220-240V, 50Hz	EN 60335 -2-40	Test with appliance
Alternative	Hefei Huntkey Electronic Technology Co., Ltd.	0011801039	AC 220-240V, 50Hz	EN 60335 -2-40	Test with appliance
Outdoor control PCB 24K	Chearihi (Anhui) Technology Co., Ltd	0011801039F	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Qingdao Haier Intelligent Electronics Co., Ltd.	0011801039F	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternativ	Ruking Emerson Climate Technologies (Shanghai) Co., Ltd.	0011801039F	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternativ	Guangdong Shangyan Electronic Technology Co., Ltd.	0011801039F	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance

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Alternativ	Hefei Huntkey Electronic Technology Co., Ltd.	0011801039F	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Anti-defrost Heating element for 18K	Zhejiang Dongfang Electric Heating Technology Co., Ltd.	0010401482B	AC 220 V; 300W; Dry burning type	EN 60335-1 EN 60335-2-40	Test with appliance
Thermal protector for anti- snow heater L	Changzhou Changda Electric Appliance Co., Ltd.	KWB-045	Cut-off at 45°C; 5A; 250V	EN 60730-1	VDE 40020632
Thermal cut-out for defrost heater	Changzhou changda Electric Appliance Co., Ltd	KWC-SPEC001	AC 250V; 16A	EN 60730-1 IEC 60079-15	VDE 40028541
Anti-defrost Heater wire for 24K	Jiangyin Qingyang Electric Heating Component Factory	0010400381	AC 240V, 65W Dry burning type	EN 60335-1 EN 60335-2-40	Test with appliance
Self-reset protector for Anti-defrost Heater wire	Changzhou Changda Electric Appliance Co., Ltd.	KWB	AC 250V, 45°C	EN 60730-1: 2009 EN 60730-2-2:2006	VDE 40028541
Critical component on indoor unit					
Indoor fan motor	Wolong Electric (Jinan) Motor Co., Ltd	WZD-40D	DC 310V, 40W, Class B	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Zhongshan Broad-Ocean Motor Co., Ltd.	ZWK465A00411	DC 310V; 40W; Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Step motor	Changzhou Leili Electronics Co., Ltd.	20BYJ46 24BYJ48 28BYJ48 35BYJ46	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Jiangsu Huayang Intelligent Equipment Co., Ltd.	20BYJ46 24BYJ48 28BYJ48 35BYJ46	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Changzhou Oukai Electric Co., Ltd.	20BYJ46 24BYJ48 28BYJ48 35BYJ46	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huilipu motor Co., Ltd.	20BYJ46 24BYJ48 28BYJ48 35BYJ46	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Indoor control PCB for 18P &24P	Qingdao Haier Intelligent Electronics Co., Ltd.	0011801123A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Ruking Emerson Climate Technologies (Shanghai) Co., Ltd.	0011801123A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Guangdong Shangyan Electronic Technology Co., Ltd.	0011801123A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huntkey Electronic Technology Co., Ltd.	0011801123A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance

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Alternative	Chearihi (Anhui) Technology Co., Ltd	0011801123A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Indoor control PCB for 18N	Qingdao Haier Intelligent Electronics Co., Ltd.	0011800646	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Ruking Emerson Climate Technologies (Shanghai) Co., Ltd.	0011800646	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Guangdong Shangyan Electronic Technology Co., Ltd.	0011800646	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huntkey Electronic Technology Co., Ltd.	0011800646	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Chearihi (Anhui) Technology Co., Ltd	0011800646	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Indoor control PCB for 18T	Qingdao Haier Intelligent Electronics Co., Ltd.	0011800646D	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Ruking Emerson Climate Technologies (Shanghai) Co., Ltd.	0011800646D	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Guangdong Shangyan Electronic Technology Co., Ltd.	0011800646D	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huntkey Electronic Technology Co., Ltd.	0011800646D	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Chearihi (Anhui) Technology Co., Ltd	0011800646D	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
WIFI module	Qingdao Haier Technology Co., Ltd	MK-QTWIFI-08	DC 5V	IEC 60950-1 IEC 62311 IEC 60335-2-40 EN 300 328	Tested with appliance & SZEM170300 1951CRV TUV SUD CE No. T8A 103612 0003
Alternative	HANGZHOU TUYA INFORMATION TECHNOLOGY CO., LTD	HEWRQU1	DC 5V	EN 300 328 EN 62311 EN 62368-1	TUV SUD CE No. T8A 104731 0037

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Alternative	JiangSu Fulian Communication Technology Co., Ltd.	ESP32-for-Haier	DC 5V	EN 300 328 V2.2.2 EN 301 489-1 V2.2.3 Draft EN 301 489-17 V.3.2.2 EN 62311:2008	SGS Report No.: SHEM200500402601 SHEM200500402602 SHEM200500402603 SHEM200500402604 SHEM200500402605 &Test with appliance
UVC Sterilization Module (for 18P model)	Xiamen Guangpu Electronics Co., Ltd.	0011012908	DC12V	EN 60335-1 EN 60335-2-40	Test with appliance
Plasmaion generator	Shandong Xuesheng Electric Appliance Co., Ltd.	XS-PL-06	AC 220-240V; 50/60Hz; 2W	EN 60335-2-65 IEC 60079-11	TÜV R 50172899 TUV SUD 44.105.18.00 903.01
Critical component on control PCB					
PCB for indoor and outdoor	HT Circuits (Qingdao) Co., Ltd.	1094V0/1194V0/1194V0G/1194V0Z/1294V0/1494V0/1494V0G/2694V0/A894V0/894V0G/1594V0/2894V0	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E56334
-Alternative	Kunshan Huaxin Circuit Board Co., Ltd.	HXF-S/HX-SA	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E227809
-Alternative	NIPPON (BOLUO) ELECTRONICS Co., Ltd.	Q2-3/D2/ KB-6160/ KB-6160C	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E56327
-Alternative	Changzhou Aohong Electronics Co., Ltd.	AOH-2/AOH-3/AOH-4	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E303981
-Alternative	HUIZHOU GLORYSKY ELECTRONICS CO., LTD.	GS-001, GS-004, TC-1, GS*, GS-D1	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E257384
-Alternative	Shenzhen Sun & Lynn Circuits Co., Ltd.	SL-D	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E234156
-Alternative	SHANTOU FENGLIDA ELECTRONICS TECHNOLOGY CO., LTD.	FLD-04, KB-6160/ KB-6160C, FLD-02	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E347210
-Alternative	Jiangxi Xusheng Electronics Co., Ltd.	PWB Type XS-M, XS-D	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E503744

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-Alternative	KUNSHAN JINPENG ELECTRONICS CO., LTD.	JP-2	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E306084
-Alternative	ANHUI JUKANG ELECTRONICS CO., LTD.	JK-2	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E472363
-Alternative	KUNSHAN DAYANG PRINTED CIRCUIT BOARD CO., LTD.	DY-M	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E360224
-Alternative	KUNSHAN YIMAI CIRCUIT BOARD MFR CO.,LTD.	YM-M	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E209202
-Alternative	Jiangsu H-Fast Electronic Co., Ltd.	211004	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E507530
-Alternative	SHENZHEN KECHENGDA TECHNOLOGY CORP LTD	KD-002	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E498693
-Alternative	Suizhou Kangmei Electronics Co., LTD.	KM-D1	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E511140
-Alternative	Changzhou Haihong Electronics Co., Ltd.	KB-6160/ KB-6160C	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E166702
-Alternative	HT Circuits (Qingdao) Co., Ltd.	KB-6160/ S1141/ S1600	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E56334
-Alternative	Shengyi Technology Co., Ltd.	S1600	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E234156
-Alternative	HUIZHOU XINGZHIGUANG TECHNOLOGY CO.,LTD	S1600/KB-6160/KB-6160A/S1141/S2126/S2131/KB-6164F/KB-6160C/S1150G/S1000-2M XZG-P2 XZG-P3 XZG-P1	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E246887
-Alternative	RONGHUI ELECTRONICS (HUIZHOU)CO., LTD.	RH-3 RH-4 RH-4HF RH-1 RH-2 RH-3HF	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E252098
-Alternative	Aoshikang Technology Co., Ltd	K-3	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E239218
-Alternative	Jiangxi XuSheng Electronics Co., Ltd	XS-D/XS-M	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E503744
-Alternative	LongNan Champion Asia Precision Circuit Co.,Ltd	KB-6160/KB-6160C C1 C2 C3 F-H F-M H1 H2 M1 M2 F-M2 D1 D2 D3 F-D F-D1 F-D2	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E342828

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-Alternative	INNO CIRCUITS LIMITED	NY2140/NY1600/KB-6160/KB-6160C/S1141/S1600L/IQE-D1	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & UL E365781
-Alternative	Jiangsu Zhong xin hua Electronic Technology Co., Ltd.	ZXHPCB-D	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & ULE505746
-Alternative	TEAN ELECTRONIC (DA YA BAY) CO.,LTD.	KB6160C/KB6160/ S1600	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & ULE358874
-Alternative	DONG GUAN NEW ENERGY PRINTED CIRCUIT B	KB-6160C	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance & ULE206420
Relay 1	Tyco Electronics (Shenzhen) Co., Ltd.	PCF-112D2M	AC 250V, DC12V, 10E4, 20A, 40T85	EN 61810-1:2015 EN 60079-15	VDE 40012548
-Alternative	Xiamen Hongfa Electroacoustics Co., Ltd.	HF102F/12VD C(310)(335)	AC 250V, DC12V, 10E4, 20A, 40T85	EN 61810-1:2015 EN 60079-15	TUV SUD 64.105.16.00 159.01
-Alternative	Shanghai Song Chuan Precision Electron Co.,Ltd.	891WP-1A-S	AC 250V, DC12V, 10E4, 20A, 30T70	EN 61810-1:2015 EN 60079-15	TUV R50003966
-Alternative	OMRON Corporation	G4A-1A4-E-CF-HA	AC 250V, DC12V, 10E4, 20A, 25T50	EN 61810-1:2015 EN 60079-15	VDE 107293
-Alternative	Zhejiang Meishuo Electric Technology Co., Ltd.	MPY-S-112-A	AC 250V, DC12V, 10E4, 20A, 40T105	EN 61810-1:2015 EN 60079-15	TUV AK 50410083
-Alternative	Xiamen Hongfa Electroacoustics Co., Ltd.	HF161F/12-H(310)(335)	AC 250V, DC12V, 10E4, 20A, 40T85	EN 61810-1:2015 EN 60079-15	TUV SUD 64.105.15.05 241.01
-Alternative	Shanghai Song Chuan Precision Electron Co., Ltd.	891P-1A-S	AC 250V, DC12V, 10E4, 20A, 40T85	EN 61810-1:2015 EN 60079-15	TUV R50003966
-Alternative	OMRON Corporation	G4A-1AE-PE-CF-HA	AC 250V, DC12V, 10E4, 20A, 25T50	EN 61810-1:2015 EN 60079-15	VDE 107293
-Alternative	Zhejiang Meishuo Electric Technology Co., Ltd.	MPY-S-112-A-P	AC 250V, DC12V, 10E4, 20A, 40T105	EN 61810-1:2015 EN 60079-15	TUV AK 50410083
Alternative	Wang Rong Electronics (Shenzhen) Co. Ltd.	RF Serie(s) RFL Serie(s)	AC250V/277V; DC12V; 10E4; 20A; 40T85; Explosion proof type	EN 61810-1:2015 EN 60079-15	VDE 40032929
Alternative	Sanyou Corporation Limited	SFK-112DMP-F	AC 250V DC12V 10E4 20A 40T85	EN 61810-1:2015 EN 60079-15	R 50138321 AK 50464382 0001
Relay 2	Xiamen Hongfa Electroacoustics Co., Ltd.	HF33F/012-ZS(310)(335)	AC 250V, DC12V, 7.5E4, 5A, 40T70	EN 61810-1:2015 EN 60079-15	TUV SUD 64.100.15.04 554.01

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-Alternative	Zhejiang Meishuo Electric Technology Co., Ltd.	MPDN-S-112-C	AC 250V, DC12V, 10E4, 5A, 40T85	EN 61810-1:2015 EN 60079-15	TUV AK 50461279
-Alternative	Xiamen Hongfa Electroacoustics Co., Ltd.	HF32F/012-HS(310)(335)	AC 250V, DC12V, 10E4, 5A, 40T70	EN 61810-1:2015 EN 60079-15	TUV SUD 64.105.16.02 325.01
-Alternative	Shanghai Song Chuan Precision Electron Co., Ltd.	307-1AH-V/H/S-307-1AH-F-C/V/S	AC 250V, DC12V, 10E4, 5A, 40T85	EN 61810-1:2015 EN 60079-15	VDE 40028236
-Alternative	Zhejiang Meishuo Electric Technology Co., Ltd.	MPD-S-112-A	AC 250V, DC12V, 10E4, 5A, 40T105	EN 61810-1:2015 EN 60079-15	TUV AK 50396767
-Alternative	Xiamen Hongfa Electroacoustics Co., Ltd.	HF33F/012-HSL(310)(335)	AC 250V, DC12V, 10E4, 5A, 40T85	EN 61810-1:2015 EN 60079-15	TUV SUD 64.100.15.04 554.01
-Alternative	OMRON Corporation	G5Q-1A4-HA	AC 250V, DC12V, 10E4, 5A, 40T85	EN 61810-1:2015 EN 60079-15	VDE 40009467
-Alternative	Tyco Electronics (Shenzhen) Co., Ltd.	OJE-SH-112DM	AC 250V, DC12V, 10E4, 5A, 40T85	EN 61810-1:2015 EN 60079-15	TUV AK 50439949
-Alternative	Xiamen Hongfa Electroacoustics Co., Ltd.	HF46F/12-HS1(310)(335)	AC 250V, DC12V, 10E4, 5A, 40T85	EN 61810-1:2015 EN 60079-15	TUV SUD 64.105.16.02 608.01
-Alternative	OMRON Corporation	G5NB-1A4-E-HA	AC 250V, DC12V, 10E4, 5A, 40T85	EN 61810-1:2015 EN 60079-15	VDE 137575
-Alternative	Zhejiang Meishuo Electric Technology Co., Ltd.	MPR-S-112-A	AC 250V, DC12V, 10E4, 5A, 40T85	EN 61810-1:2015 EN 60079-15	TUV AK 50396773
-Alternative	Tyco Electronics (Shenzhen) Co., Ltd.	PCJ-112D3 MH-WG	AC 250V, DC12V, 10E4, 5A, 40T85	EN 61810-1:2015 EN 60079-15	TUV AK 50434362
Alternative	Wangrong Electronics (Shenzhen) Co., Ltd.	RJ-SS-112DM-S	250VAC; DC12V; 10E4; 5A; T85	EN 61810-1:2015 EN 60079-15	TUV R 50222701
Alternative	Xiamen Hongfa Electroacoustic Co., Ltd	HF32F-G	AC 250VAC; DC12V; 10E4; 5A; 40T105	EN 61810-1:2015 EN 60079-15	VDE 40012204
Alternative	Sanyou Corporation Limited	SJ-SH-112DM2(Ex)	AC250V, DC12V, 10E4, 5A, 40T105	EN 61810-1:2015 EN 60079-15	VDE 40002146
Alternative	Xiamen Hongfa Electroacoustics Co., Ltd.	HF33F/012-HSL(310)(335)	AC 250V DC12V 10E4 5A 40T85	EN 61810-1:2015 EN 60079-15	VDE 125661 TUV64.100.1 5.04554.01
Alternative	Huangshan Wangrong Electronics Co.,Ltd.	RJE-112LM-S	AC 277V DC12V 10E4 5A 40T85	EN 61810-1:2015 EN 60079-15	VDE 40045973 TUV 64.105.16.00 108.03
Alternative	Sanyou Corporation Limited	SJE-SH-112LM2	AC 277V DC12V 10E4 5A 40T85	EN 61810-1:2015 EN 60079-15	VDE 40035912 CNEx19.542 1U

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Alternative	Huangshan Wangrong Electronics Co.,Ltd.	RC-112DM1H	AC 250V DC12V 10E4 5A 40T85	EN 61810-1:2015 EN 60079-15	VDE 40034781 TUV 64.105.18.1 6738.02
Alternative	Sanyou Corporation Limited	SRB-SH-112DM2	AC 277V DC12V 10E4 5A 40T85	EN 61810-1:2015 EN 60079-15	VDE 40033402 CNEEx19.54 27U
Alternative	Sanyou Corporation Limited	SJE-SH-112D2	AC250V,DC12V,10E4 5A 40T105	EN 61810-1:2015 EN 60079-15	VDE 40035912 CNEEx19.542 1U
Transformer for indoor PCB	Qingdao Jingshi Electronic Co., Ltd.	BK-19-1989 BCK-25-1989	Input: AC 90-264V~, 50/60Hz Output :DC 12V Class B	EN 61558-1:2005 EN 61558-2-16:2009	VDE 40037839
-Alternative	Wuxi Derun Electron Co., Ltd.	DB26-00146A BCK-146	Input: AC 85-240V~, 50/60Hz Output :DC 12V Class B	EN 61558-1:2005 EN 61558-2-16:2009	TÜV B 16108689000 3
-Alternative	Dezhou Sanhe Electric Co., Ltd.	SANHE-19-195	Input: AC 90-245V~, 50/60Hz Output :DC 12V Class B	EN 61558-1:2005 EN 61558-2-16:2009	VDE 40029326
-Alternative	Qingdao Jingshi Electronic Co., Ltd.	BK-19-1933 BCK-25-1933	Input: AC 90-264V~, 50/60Hz Output :DC 12V Class B	EN 61558-1:2005 EN 61558-2-16:2009	VDE 40037839
-Alternative	Dezhou Sanhe Electric Co., Ltd.	SANHE-19-090 (SANHE-19-032)	Input: AC 90-245V~, 50/60Hz Output :DC 12V Class B	EN 61558-1:2005 EN 61558-2-16:2009	VDE 40029326
-Alternative	Jiangsu Taichang Electronics Co., Ltd.	BCK-EE19-03414 (BCK-EE19-05609)	Input: AC 90-245V~, 50/60Hz Output :DC 12V Class B	EN 61558-1:2005 EN 61558-2-16:2009	VDE 40042740
Alternative	Keneng Electronic Co., Ltd.	BCK-6-FE1901H	Input: AC 85-265V; 50Hz; output: DC 12V; class B	EN 60335-1 EN 60335-2-40	Test with appliance
Transformer for outdoor PCB	Qingdao Jingshi Group Co., Ltd.	BK-19-0030	Input: AC 90-264 V~, 50/60Hz Output:DC Class B	EN 61558-2-16:2009 EN 61558-1:2005	VDE 40037839
Alternative	Wuxi Derun Electron Co., Ltd.	DA26-00021A	Input: AC 85-240V~, 50/60Hz Output :DC Class B	EN 61558-2-16:2009 EN 61558-1:2005-11	TUV 16108689000 3
Fuse on PCB (Indoor)	Suzhou Littelfuse OVS Ltd.	215 Series	T3,15A, 250V	EN 60127-1:2006 EN 60127-2:2014	VDE 40013521

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-Alternative	Sun Electric Co.	5H	T3,15A, 250V	EN 60127-2:2003+A1 EN 60127-1:2006	TUV J 50220933
-Alternative	Dongguan Better Electronic Technology Co.,Ltd.	524	T3,15A, 250V	EN 60127-1:2006 EN 60127-2:2014	VDE 40025424
-Alternative	Suzhou Walter Electronic Co., Ltd.	TSC	T3,15A, 250V	EN 60127-1:2006 EN 60127-2:2014	VDE 40016670
Fuse on PCB (Outdoor)	Sun Electric Co.	6HP/6SP/6EP	T25A, 250V	EN 60335-1 EN 60335-2-40	Test with appliance
-Alternative	CHI LICK SCHURTER LTD	SUT 6.3x32 Series	T25A, 250V	EN 60335-1 EN 60335-2-40	Test with appliance
-Alternative	Dongguan Better Electronic Technology Co.,Ltd.	614	T25A, 250V	EN 60335-1 EN 60335-2-40	Test with appliance
-Alternative	Dongguan Cooper Electronics Co.,Ltd.	612	T25A, 250V	EN 60127-1:2006+A1:2011+A2:2015 EN 60127-3:2015	VDE 400122052
-Alternative	Walter Electronic Co., Ltd.	MTP	T25A, 250V	EN 60127-1:2006+A1 EN 60127-7:2013	TUV R 50305728
-Alternative	Suzhou Littelfuse OVS Ltd.	325/326 Series	T25A, 250V	EN 60335-1 EN 60335-2-40	Test with appliance
-Alternative	CONQUER ELECTRONICS CO., LTD.	MST Series	T1A or 3,15A, 250V	EN 60127-3:1996+A2 EN 60127-1:2006	TUV R 50176525
-Alternative	DongGuan Better Electronic Co., Ltd.	932 Series	T1A or 3,15A, 250V	EN 60127-1:2006+A1:2011+A2:2015 EN 60127-3:2015	VDE 40033369
-Alternative	Suzhou Littelfuse OVS Ltd.	392 Series	T1A or 3,15A, 250V	EN 60127-1:2006+A1:2011+A2:2015 EN 60127-3:2015	VDE 126983
-Alternative	Walter Electronic Co., Ltd.	2010 Series	T1A or 3,15A, 250V	EN 60127-1:2006+A1 EN 60127-7:2013	TÜV R 50305728
IPM for 18K Compressor	Infineon Technologies China Co., Ltd.	IKCM20L60GD	600V, 20A	EN 60335-1 EN 60335-2-40	Test with appliance
-Alternative	Infineon Technologies China Co, Ltd	IKCM15L60GD	600V; 15A	EN 60335-1 EN 60335-2-40	Test with appliance
IPM for 24K Compressor	Infineon Technologies China Co., Ltd.	IKCM30F60GD	600V, 30A	EN 60335-1 EN 60335-2-40	Test with appliance
Optocoupler on PCB (IN and OUT)	Sharp Corporation Electronic Components Group	PC817	890V peak; T110; Cr. & Cl.=6,4mm	EN 60747-5-5:2011+A1:2015	VDE 40008189
-Alternative	Sharp Corporation Electronic Components Group	PC851	890V peak; T110; Cr. & Cl.=6,4mm	EN 60747-5-5:2011+A1:2015	VDE 40015248
-Alternative	Sharp Corporation Electronic Components Group	PC725V	890V peak; T100; Cr.&Cl.>=6,4mm	EN 60747-5-5:2011+A1:2015	VDE 40008898
-Alternative	Lite-on Technology Corporation	LTV-817	890V peak; T115; Cr.&Cl.>=7,0mm	EN 60747-5-5:2011+A1:2015	VDE 40009302

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-Alternative	Lite-on Technology Corporation	LTV-851	890V peak; T115; Cr.&Cl.>=7,0mm	EN 60747-5-5:2011+A1:2015	VDE 40008862
-Alternative	Lite-On Technology Corporation	LTV-3150	1140V peak; T115; Cr. & Cl.>=7,0mm	EN 60747-5-5:2011+A1:2015	VDE 102497
-Alternative	Everlight Electronics Co., Ltd.	EL817 EL851	850V peak; T110; Cr. & Cl.>=7,6mm	EN 60747-5-5:2011+A1:2015	VDE 40010944
-Alternative	Toshiba Electronic Devices & Storage Corporation	TLP351	890V peak; T85; Cr.&Cl.>=7,0mm	EN 60747-5-5:2011+A1:2015	VDE 40009302
-Alternative	Toshiba Electronic Devices & Storage Corporation	TLP251	890V peak; T85; Cr.&Cl.>=7,0mm	EN 60747-5-5:2011+A1:2015	VDE 40015248
-Alternative	Toshiba Electronic Devices & Storage Corporation	TLP628	890V peak; T100; Cr. & Cl.>=7,0mm	EN 60747-5-5:2011+A1:2015	Test with appliance
Alternative	Toshiba Corp	TLP388	1230V peak; T125; Cr. & Cl.>=8,0mm	EN 60747-5-5:2011+A1:2015	VDE 40040216
Alternative	Toshiba Corp.	TLP3526 TLP3616	890V peak, 25/80/21	EN 60747-5-5:2011+A1:2015	TÜV R 50028007
-Alternative	Fairchild Semiconductor Pte Ltd	FOD3150	890V peak; T110; Cr. & Cl.>=7,0mm	EN 60747-5-5:2011+A1:2015	VDE 40004928
-Alternative	Panasonic Corporation	AQH2223	600V peak; T85; Cr.&Cl.>=7,0mm	EN 60747-5-5:2011+A1:2015	VDE 40015248
-Alternative	Fairchild Semiconductor Pte Ltd	MOC3051	850V peak; T100; Cr.&Cl.>=7.0mm	EN 60747-5-5:2011+A1:2015	VDE 132249
-Alternative	Lite-on Technology Corporation	MOC3052	890V peak; T115; Cr.&Cl.>=7,0mm	EN 60747-5-5:2011+A1:2015	VDE 40015248
-Alternative	Sharp Corporation Electronic Components Group	R3BMF5	890V peak; T100; Cr.&Cl.>=6,4mm	EN 60747-5-5:2011+A1:2015	VDE 40015248
-Alternative	Shenzhen Orient Components Co. Ltd.	ORPC-817	850V peak; T110; Cr. & Cl.>=7,6mm	EN 60747-5-5:2011+A1:2015	VDE 40029733
-Alternative	Shenzhen Orient Components Co. Ltd.	ORPC-851	850V peak; T100; Cr. & Cl.>=7,6mm	EN 60747-5-5:2011+A1:2015	VDE 40029733
PTC on outdoor PCB	Xiaogan Huagong Gaoli Electronic Co., Ltd.	MZ8IV-B470N	250VAC; 47Ω (25°C); I _{max} 10A	EN 60738-1 EN 60738-1-1 EN 60730-1 EN 60730-2-10	TUV R 50176237
-Alternative	Thinking Electronic Industrial Co., Ltd.	PSB470N	250VAC; 47Ω (25°C); I _{max} 10A	EN 60738-1-3:2008	VDE 40017625

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-Alternative	Dandong guotong electronic components Co., Ltd.	MZ-47R-A	250VAC; 47Ω (25°C); I _{max} 10A	EN 60335-2-40	Test with appliance
-Alternative	Xiaogan Huagong Gaoli Electronic Co., Ltd.	MZ8IV-B470M	250VAC; 47Ω (25°C); I _{max} 10A	EN 60738-1 EN 60738-1-1 EN 60730-1 EN 60730-2-10	TUV R 50176237
-Alternative	ShenZhen AMPRON Technology co., Ltd.	MZ3247R	250VAC; 47Ω (25°C); I _{max} 10A	EN 60738-1 EN 60738-1-1	TUV R 50187698
-Alternative	MURATA MFG CO., LTD.	PTGL14AS470 H0D76AZ	250VAC; 47Ω (25°C); I _{max} 10A	EN 60335-2-40	Test with appliance
-Alternative	Thinking Electronic Industrial Co., Ltd.	PPL20400NA2 B7CKL	250VAC; 40Ω (25°C); I _{max} 12A	EN 60335-2-40	Tested with appliance
Alternative	Thinking Electronic Industrial Co., Ltd.	PSB400MA2B5 10CGY	250VAC; 40Ω (25°C); I _{max} 12A	EN 60738-1-3:2008	VDE 40017625
Alternative	Dandong guotong electronic components co.,ltd	MZ9240RN	250VAC; 40Ω (25°C); I _{max} 12A	EN 60738-1:2006 EN 60738-1-1:2008	TUV B 17076773300 2
Alternative	ShenZhen AMPRON Technology co., Ltd.	MZ3240R	250VAC; 40Ω (25°C); I _{max} 12A	EN 60738-1-3:2008	TUV R 50187698
Alternative	Thinking Electronic Industrial Co., Ltd.	PSB400M	250VAC; 40Ω (25°C); I _{max} 12A	EN 60738-1-3:2008	VDE 40017625
Alternative	Xiaogan Huagong Gaoli Electronic Co., Ltd.	MZ8 II - CH400M MZ8 I - CH400M	250VAC; 40Ω (25°C); I _{max} 12A	EN 60738-1-3:2008	TUV R 50176237
Varistor on PCB (IN and OUT)	TDK Electronics GmbH & Co OG	S14K385 S14K385K1	620V, 40T125	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40027582
-Alternative	TDK Electronics GmbH & Co OG	S14K350	560V; 40/85/56	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40027582
-Alternative	Thinking Electronic Industrial Co., Ltd.	TVR14621V	620V, 40T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	TUV J 50411784
Alternative	Thinking Electronic Industrial Co., Ltd.	TVR14561K	560V; 40/85/56	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005944
Alternative	Thinking Electronic Industrial Co., Ltd.	TVR14471K	470V; 40/85/56	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005944
-Alternative	Thinking Electronic Industrial Co., Ltd.	TVR14621 TVR14621* TVR14621K	620V, 40T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	TUV J 50411784
-Alternative	Chengdu Tieda Electronics Corporation	MYN15-621KM	620V, 40T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40045597
-Alternative	Chengdu Tieda Electronics Corporation	14KAC385MS	620V, 40T125	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40045597

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Y Capacitor	Capatronics Electronics (Kunshan) Co., Ltd.	Y5P/Y5V/Y5U	AC 250V, 20/125/21/C, Y2, 2200pF, 4700pF, 10000pF	EN 60384-14: 2013+A1:2016	VDE 40013317
-Alternative	TDK Corporation	CD	AC 250V, 25/125/21/B, Y1, 2200pF, 4700pF, 10000pF	EN 60384-14: 2013+A1:2016	VDE 40017931
-Alternative	TDK Corporation	CS	AC 250V, 25/125/21/B, Y2, 2200pF, 4700pF, 10000pF	EN 60384-14: 2013+A1:2016	VDE 40029781
-Alternative	Murata Mfg. Co., Ltd.	KY	AC 250V/ 300V , 40/125/21/C, Y2, 2200pF, 4700pF, 10000pF	EN 60384-14: 2013+A1:2016	VDE 40006273
-Alternative	Murata Mfg. Co., Ltd.	KX	AC250V/ 300V , 40/125/21/B, Y2, 2200pF, 4700pF, 10000pF	EN 60384-14: 2013+A1:2016	VDE 40002831
-Alternative	Yinan Don's Electronic Component Co., Ltd.	CT81	AC 250V, 25/125/21/C, Y2/ Y1 2200pF, 4700pF, 10000pF	EN 60384-14: 2013+A1:2016	VDE 135256
-Alternative	Guangdong Fenghua Advanced Technology Holding CO., LTD.	CT7	AC 250V/ 300V , 25/125/21/C, Y2, 2200pF, 4700pF, 10000pF	EN 60384-14: 2013+A1:2016	VDE 40013869
-Alternative	Walsin Technology Corp.	AC	AC 250V/ 300V , 40/125/21/C, Y2, 2200pF, 4700pF, 10000pF	EN 60384-14: 2013+A1:2016	VDE 40001829
-Alternative	Walsin Technology Corp.	AH	AC 250V, 40/125/21/B, Y2, 2200pF, 4700pF, 10000pF	EN 60384-14: 2013+A1:2016	VDE 40001804
-Alternative	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	CE	AC 250V, 40/125/21/B, Y2, 2200pF, 4700pF, 10000pF	EN 60384-14: 2013+A1:2016	VDE 40025748

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X2 Capacitor	Xiamen Faratronic Co., Ltd.	MKP62	AC275V or AC305V or AC310V ; 40/110/56/B; or 40/105/56/B or 40/100/56/B 0,1µF;0,47µF;-indoor 0,22µF;2,2µF; 0,01µF;-outdoor	EN 60384-14: 2013+A1:2016	VDE 40000358
-Alternative	Xiamen Faratronic Co., Ltd.	MKP61	AC305V or AC275V; 40/110/56/B or 40/100/56/B ; 0,1µF;0,47µF;-indoor 0,22µF;2,2µF; 0,01µF;-outdoor	EN 60384-14: 2013+A1:2016	VDE 40007424
-Alternative	Nistronics (Jiangxi) Co., Ltd.	MPR	AC275V or AC310V; 40/110/56/B; or 40/100/21/B; 0,1µF;0,47µF;-indoor 0,22µF;2,2µF; 0,01µF;-outdoor	EN 60384-14: 2013+A1:2016	VDE 40032056
-Alternative	TDK (Zhuhai FTZ) Co., Ltd.	B3292 Series	AC 305V, 40/105/56/B, 0,1µF;0,47µF;-indoor 0,22µF;2,2µF; 0,01µF;-outdoor	EN 60384-14: 2013+A1:2016	VDE 40010694
-Alternative	Guangdong Fengming Electronic Tech. Co., Ltd.	MKP-X2	AC 275V or AC305V or AC310V , 40/105/21/C or 40/110/56/B or 40/110/56/C , 0,1µF;0,47µF;-indoor 0,22µF;2,2µF; 0,01µF;-outdoor	EN 60384-14: 2013+A1:2016	VDE 40025702
-Alternative	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	AC 275V, 40/110/56/B, 0,1µF;0,47µF;-indoor 0,22µF;2,2µF; 0,01µF;-outdoor	EN 60384-14: 2013+A1:2016	VDE 40024534
-Alternative	JIMSON ELECTRONICS (XIAMEN) CO., LTD.	MKP	AC 275V or AC250V , 40/100/21/B, 0,1µF; 0,47µF; -indoor 0,22µF; 2,2µF; 0,01µF; -outdoor	EN 60384-14: 2013+A1:2016	VDE 40000463

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30.1	TABLE: Ball Pressure Test of Thermoplastics			P
Allowed impression diameter (mm):		2,0		—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	
Relay SFK-112DMP-F	--	125	1,0	
Relay HF33F/012-HSL(310)(335)	--	125	1,2	
Relay RJE-112LM-S	--	125	1,4	
Relay SJE-SH-112LM2	--	125	1,0	
Relay RC-112DM1H	--	125	1,3	
Relay SRB-SH-112DM2	--	125	1,1	
Relay SJE-SH-112D2	--	125	1,2	
Supplementary information: --				

30.2	TABLE: Resistance to heat and fire – Glow wire tests							P
Object/ Part No./ Material	Manufactur er/ trademark	Glow wire test (GWT); (°C)						Verdict
		550	650		750		850	
			te	ti	te	ti		
Relay SFK-112DMP-F	--				X	X	X	P
Relay HF33F/012-HSL(310)(335)	--				X	X	X	P
Relay RJE-112LM-S	--				X	X	X	P
Relay SJE-SH-112LM2	--				X	X	X	P
Relay RC-112DM1H	--				X	X	X	P
Relay SRB-SH-112DM2	--				X	X	X	P
Relay SJE-SH-112D2	--				X	X	X	P
Object/ Part No./ Material	Manufact urer/ trademark	Glow-wire flammability index (GWFI), °C				GW ignition temp. (GWIT), °C		Verdict
		550	650	750	850	675	775	

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The test specimen passed the glow wire test (GWT) with no ignition [(te – ti) ≤ 2s] (Yes/No)							Yes
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No).....							N/A
The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)?							No
Ignition of the specified layer placed underneath the test specimen (Yes/No)							No
Supplementary information: - 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF - The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances							

30.2/30.2.4	TABLE: Needle- flame test (NFT)				P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
PCB	\	30	Not Ignition	0	P
Supplementary information: - NFT not relevant (or applicable) for Parts of material classified as V-0 or V-1 - NFT not relevant (or applicable) for Base material of PCBs classified as V-0 or if relevant VTM-0					

EU differences of EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012, EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019 +A15:2021			
Clause	Requirement + Test	Result - Remark	Verdict

	CENELEC COMMON MODIFICATIONS		
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered	220-240V	P
	Multi-phase appliances to be connected to the supply mains: 400 V covered		N/A
7.10	Devices used to start/stop operational functions of the appliance distinguished from other manual devices by means of shape, size, surface texture, position, etc.	The on/stop button on control panel of indoor unit is in a different position with others.	P
	An indication that the device has been operated is given by:		P
	- a tactile feedback, or		P
	- an audible and visual feedback		P
	Delete the paragraphs starting with "Devices used to start/stop..." until the end of the requirement "...by vulnerable persons.". This includes Notes Z1 and Z2. (EN 60335-1:2012/A2:2019)		P
7.12	The instructions include the substance of the following:		P
	- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved		P
	- children shall not play with the appliance		P
	- cleaning and user maintenance shall not be made by children without supervision		P
7.12.1	Installation instructions for appliances intended to be permanently connected to fixed wiring, and have leakage current exceed 10 mA, state that installation of residual current device (RCD) having rated residual operating current not exceeding 30 mA is advisable (EN 60335-2-40)		N/A
	For appliances not accessible to the general public and which are intended to be permanently connected to fixed wiring and which may have leakage currents exceeding 10 mA, the installation instructions shall specify the rating of the residual current device (RCD) to be installed (EN 60335-2-40/A12)		N/A
7.14	Delete Note Z1 (EN 60335-1:2012/A2:2019)		P
24.1	Replace the existing text by the following:	(EN 60335-1:2012/A1:2019)	—
	Components shall comply with the safety requirements specified in the relevant EN standards as far as they reasonably apply		P

EU differences of EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012, EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019 +A15:2021			
Clause	Requirement + Test	Result - Remark	Verdict
	Compliance with the EN standard for the relevant component does not necessarily ensure compliance with the requirements of this standard		P
	Motors are not required to comply with EN 60034-1. They are tested as part of the appliance according to this standard		P
	Relays shall be tested as part of the appliance according to this standard. They may be alternatively tested to EN 60730-1, in which case they shall also meet the additional requirements in EN 60335-1		P
	Unless otherwise specified, the requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance		P
	Unless otherwise specified, components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard		P
	Unless otherwise specified, the requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components		P
	Components that have not been previously tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard		P
	Components that have been previously tested and shown to comply with the resistance to fire requirements in the EN standard for the relevant component need not be retested provided that:		P
	— the severity specified in the component standard is not less than the severity specified in 30.2 of this standard, and		P
	— unless the pre-selection alternatives in 30.2 are used, the test report for the component states the values of t_e and t_i as required by EN 60695-2-11		P
	If the above two conditions are not satisfied, the component is tested as part of the appliance		P
	Power electronic converter circuits are not required to comply with EN 62477-1. They are tested as part of the appliance according to this standard		P
	Unless components have been previously tested and found to comply with the relevant EN standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant EN standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		P

EU differences of EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012, EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019 +A15:2021			
Clause	Requirement + Test	Result - Remark	Verdict
	Components that have not been separately tested and found to comply with the relevant EN standard and components that are not marked or not used in accordance with their marking, are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		P
	Lamp-holders and starter-holders that have not been previously tested and found to comply with the relevant EN standard are tested as a part of the appliance and shall additionally comply with the gauging and interchangeability requirements of the relevant EN standard under the conditions occurring in the appliance. Where the relevant EN standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used	No lampholder or starterholder	N/A
	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard	No plug	N/A
	Plugs and socket-outlets and other connecting devices of interconnection cords shall not be interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of EN 60320-1, if direct supply to these parts from the supply mains could give rise to a hazard		N/A
	NOTE Z3 For details of plugs used in CENELEC countries listed in IEC TR 60083 see Annex ZH. (EN 60335-1:2012/A14:2019)		N/A
	When an EN standard does not exist for a component, there are no additional tests specified		P
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is EN 41003		N/A
	Compliance with clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003		N/A
24.Z1	For motor running capacitors (IEC 60252-1 type P2) with a metallic enclosure having an overpressure fuse the flame testing of internal plastic parts supporting current carrying connections as required in 30.2.2 and 30.2.3.1 is not necessary	No motor capacitor	N/A
	Replacement: (EN 60335-1:2012/A2:2019)		—

EU differences of EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012, EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019 +A15:2021			
Clause	Requirement + Test	Result - Remark	Verdict
	Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1.		N/A
24.1	In the note, replace the word "NOTE Z3" with "NOTE Z1" (EN 60335-1:2012/A15:2021)		N/A
24.1.7	Replace the sub clause with the following: If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151. (EN 60335-1:2012/A15:2021)		N/A

*** End of test report ***