IEC IECEE CB SCHEME

Ref. Certif. No.

JPTUV-013076-M1

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Room air conditioner indoor unit
Name and address of the applicant Nom et adresse du demandeur	Electra Consumer Products 21 Aminadav St., Tel-Aviv 67067, Israel
Name and address of the manufacturer Nom et adresse du fabricant	Electra Consumer Products 21 Aminadav St., Tel-Aviv 67067, Israel
Name and address of the factory Nom et adresse de l'usine	(See appendix for factories information)
Rating and principal characteristics Valeurs nominales et caractéristiques principales	AC 220-230V; 50Hz; Class I rated power input: refer to the test report IP20; Refrigerant: R22, R407C or R410A
Trade mark (if any) Marque de fabrique (si elle existe)	ELECTRA
Model/type Ref. Ref. de type	WMF series TOP 9ST R410A, TOP 9RC R410A, TOP 12ST R410A, TOP 12RC R410A
Additional information (if necessary) Information complémentaire (si nécessaire)	For model differences, refer to the test report. Re-issue of JPTUV-013076 dated 13.12.2005, due to first modification.
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la	IEC 60335-2-40:1995+A1 IEC 60335-1:1991+A1+A2
As shown in the Test Report Ref. No.which forms part of this Certificate Comme indiqué dans le Rapport d'essais numéro de référence qui constitue une partie de ce Certificat	12012834 002

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

TÜV **TÜV Rheinland Group**

TÜV Rheinland Japan Ltd.
Shin Yokohama Daini Center Bldg.
3-19-5, Shin Yokohama, Kohoku-ku
Yokohama 222-0033 Japan
Phone + 81 45 470-1850
Fax + 81 45 473-5221
Mail: info@jpn.tuv.com
Web: www.tuv.com

Date: 13.04.2006

Signature: Dipl.-Ing. W. Herlitschke

10/061 CB 4.03

TÜV Rheinland Japan Ltd.
Member of TÜV Rheinland Group

TÜV Rheinland Group

Appendix to CB Certificate JPTUV-013076-M1
Report Number: 12012834 002

Name and address of the manufacturer
Electra Consumer Products
21 Aminadav St., Tel-Aviv
67067
Israel

Name and address of the factory(ies)
Electra Air-conditioning (Shenzhen) Co., Ltd.

2 WUHE AVENUE S.,
BANTIAN, BUJI
Shenzhen,Guangdong, P.R. China

Electra Consumer Products Ltd.

Sapir 1, Rishon Lezion
75704
Israel

Date: 13.04.2006

Dipl.-Ing. W. Herlitschke

Yokohama Head Office
Shin Yokohama Daini Center Bldg.
3-19-5, Shin Yokohama
Kohoku-ku, Yokohama 222-0033, Japan
Tel : +81-45-470-1850
Fax : +81-45-473-5221
e-mail: info@jpn.tuv.com

新横浜本社
〒222-0033 横浜市港北区新横浜3-19-5
新横浜第二センタービル
Tel : 045-470-1850
Fax : 045-473-5221
www.jpn.tuv.com

TEST REPORT

IEC 60335-2-40

Safety of household and similar electrical appliances
Part 2: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers

Report Reference No.	12012834 002
Compiled by (+ signature)	S. Kischka
Approved by (+ signature)	M. Kera
Contents	7 pages
Date of issue	2006-04-12

CB Testing laboratory Name	TÜV Rheinland Japan Ltd., Yokohama Laboratory
Address	4-25-2 Kita-Yamata, Tsuzuki-ku, Yokohama 224-0021, Japan
Testing location/procedure	CBTL ☒ SMT ☐ TMP ☐
Address	Same as above
Applicant's Name	ELECTRA CONSUMER PRODUCTS
Address	21 Aminadav St, Tel-Aviv, 67067 Israel
Test specification	
Standard	IEC 60335-2-40:1995 + A1:2000 used in conjunction with IEC 60335-1:1991 + A1:1994 + A2:1999
Test procedure	CB
Non-standard test method	N.A.
Test Report Form No.	IEC60335_2_40C
TRF originator	AENOR
Master TRF	Dated 2002-02

Test item description	Room air conditioner indoor unit
Trademark	ELECTRA
Model and/or type reference	TOP 9ST R410A, TOP 9RC R410A TOP 12ST R410A, TOP 12RC R410A
Manufacturer	Same as applicant
Factory	See page 2
Rating(s)	220-230V~ 50Hz Rated Power input: see model list on page 4 Refrigerant: R410A IP20

Summary of testing

The report is for new models approval, clause 7 and clause 29 is considered and checked on the appliance, for missing clause, please refer to original report.

Test items particulars

Serial Number ..... : Prototype samples

Additional information..... : N(.A.)

..... :

..... :

Test case verdicts

Test case does not apply to the test object ..... : N(.A.)

Test item does meet the requirement..... : P(ass)

Test item does not meet the requirement ..... : F(ail)

Testing

Date of receipt of test item ..... : 2006-03-31

Date(s) of performance of test..... : N/A

General remarks

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

This test report shall not be reproduced except in full, without the written approval of the issuing testing laboratory.

Clause numbers between brackets refer to clauses in IEC 60335-1

"(see Enclosure #)" refers to an additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

Factory information:

Factory 1: Electra Air-Conditioning (Shenzhen) Co., Ltd.

Address: 2 Wuhe Avenue S., Bantian, Buji, Shenzhen, Guangdong, P. R. China

Factory 2: ELECTRA CONSUMER PRODUCTS LTD.

Address: Sapir 1, Rishon Lezion, 75704, Israel

History of amendments and modifications:

Ref.No.12012834 001, dated 2005-12-08(Original report);

Ref.No.12012834 002, dated 2006-04-12(Modification report);

Copy of marking plate:

ELECTRA	**MODEL:TOP 9ST R410A**		
PROD NO.:	Fuse: 10A(G)		
TYPE:	COSφ=0.95		
220-230V~ 50Hz	IP20 Rev.A	Dehumidification: 1.2 l/h	
R410A:	Prated: 32W	PS: 6.3MPa	Ps: 0.8MPa
		Temp.Class: T1	Weight: 13.5kg

ELECTRA	**MODEL:TOP 9RC R410A**		
PROD NO.:	Fuse: 10A(G)		
TYPE:	COSφ=0.95		
220-230V~ 50Hz	IP20 Rev.A	Dehumidification: 1.2 l/h	
R410A:	Prated: 32W	PS: 6.3MPa	Ps: 0.8MPa
		Temp.Class: T1	Weight: 13.5kg

ELECTRA	**MODEL:TOP 12ST R410A**		
PROD NO.:	Fuse: 15A(G)		
TYPE:	COSφ=0.95		
220-230V~ 50Hz	IP20 Rev.A	Dehumidification: 1.6 l/h	
R410A:	Prated: 42W	PS: 6.3MPa	Ps: 0.8MPa
		Temp.Class: T1	Weight: 14kg

ELECTRA	**MODEL:TOP 12RC R410A**		
PROD NO.:	Fuse: 15A(G)		
TYPE:	COSφ=0.95		
220-230V~ 50Hz	IP20 Rev.A	Dehumidification: 1.6 l/h	
R410A:	Prated: 42W	PS: 6.3MPa	Ps: 0.8MPa
		Temp.Class: T1	Weight: 14kg

Desciption of modification:

This report has three issues:

1. Change the applicant and manufacturer from **Electra Air-Conditioning (Shenzhen) Co.,Ltd.** 2 Wuhe Avenue S., Bantian, Buji, Shenzhen, Guangdong, P. R. China, into **ELECTRA CONSUMER PRODUCTS** 21 Aminadav St, Tel-Aviv, 67067 Israel.

2. Add a new factory **ELECTRA CONSUMER PRODUCTS LTD.** Sapir 1, Rishon Lezion, 75704, Israel.

3. New models approval.
   New models TOP series are identical with corresponding issued models WMF series except the outlook enclosure is changed, and matching with different refrigerant, detailes please refer to photo document.

   Model list:

No.	New model name	Issued models	Rated Voltage	Rated input	Refrigerant	Remark
1	TOP 9ST R410A	WMF9ST	220-230V	32W	R410A	Cooling mode
2	TOP 9RC R410A	WMF9RC	220-230V	32W	R410A	Reverse type
3	TOP 12ST R410A	WMF12ST	220-230V	42W	R410A	Cooling mode
4	TOP 12RC R410A	WMF12RC	220-230V	42W	R410A	Reverse type

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
7	**MARKING**		P
7.1	Rated voltage or voltage range (V) ..... :	220-230V	P
	Symbol for nature of supply including number of phases, unless for single phase operation (IEC 60335-2-40:1995)	~	P
	Rated frequency or frequency range (Hz) ..... :	50Hz	P
	Rated input or rated current	See rating label.	P
	Manufacturer's or responsible vendor's name, trademark or identification mark	ELECTRA	P
	Model or type reference	See rating label	P
	Symbol for Class II	Class I appliance	N
	Symbol for degree of protection against ingress of water, other than IPX0 (IEC 60335-2-40:1995)	IP20	N
	Mass of the refrigerant or of each refrigerant in a blend (except for azeotropic type (IEC 60335-2-40:1995)		N
	Refrigerant identification (IEC 60335-2-40:1995)	R410A	P
	Permissible excessive operating pressure in pascals for sanitary hot water heat pumps (IEC 60335-2-40:1995)		N
	Excessive operating pressure of the refrigerant circuit for suction and discharge, if they differ (IEC 60335-2-40:1995)	Specified on rating label	P
	The maximum operating pressure for the heat exchanger (IEC 60335-2-40/A1:2000)		P
	Separate marking of the appliances with all the rated characteristics of the supplementary heaters (IEC 60335-2-40:1995)	No supplementary heaters	N
	Marking of the direction of the fluid flow (IEC 60335-2-40:1995)		N
29	**CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH INSULATION**		P
29.1	Creepage distances and clearances not less than specified in table 13	(See appended table)	P
	Values increased by 4 mm in case of reinforced insulation when resonance voltage		N
	Creepage distances and clearances for circuits with voltages greater than 250 V r.m.s. (345 V peak) comply with table (IEC 60335-2-40:1995)		P
	For motor-compressors with working voltages ≤ 250 V, 29.1 of IEC 60335-2-34 applies (IEC 60335-2-40:1995)		N

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
	Creepage distances and clearances for motor-compressors with working voltages > 250 V r.m.s. and ≤ 600 V r.m.s. not less than stated in Table 101 (IEC 60335-2-40:1995)		N
29.2	Distances through insulation not less than 1,0 mm for supplementary insulation, and 2,0 mm for reinforced insulation. Interpretation of this requirement: see Interpretation Sheet I-SH 02, August, 1994		N
29.2.1	Supplementary insulation applied in thin sheet form, other than mica or similar scaly material, consists of at least two layers, each of the layers withstands the electric strength test of 16.3 for supplementary insulation		N
	Reinforced insulation applied in thin sheet form, other than mica or similar scaly material, consists of at least three layers, and any two of the layers together withstand the electric strength test of 16.3 for reinforced insulation		N
29.2.2	Supplementary or reinforced insulation inaccessible and does not exceed the maximum permissible temperature values		N
	Supplementary or reinforced insulation, after conditioning as specified, withstands the electric strength test as specified in 16.3, both at the oven temperature and room temperature		N

29.1	TABLE: MINIMUM CREEPAGE DISTANCES AND CLEARANCES								P
creepage (cr) and clearance (cl) distance (mm):	Class III appliances		Other appliances, working voltage:						remark
			< 130 V		130-250 V		250-440 V		
	cr	cl	cr	cl	cr	cl	cr	cl	
Between live parts of different potential									
- if protected against deposition of dirt	1,0	1,0	1,0	1,0	***3,0***	***3,0***	2,0	2,0	P
- if not protected against deposition of dirt	2,0	1,5	2,0	1,5	***4,0***	***4,0***	4,0	3,0	P
- if lacquered or enameled windings	1,0	1,0	1,5	1,5	***4,0***	***4,0***	3,0	3,0	P
- for positive temperature coefficient (PTC) resistors including their connecting wires, if protected against deposition of moisture or dirt	—	—	1,0	1,0	1,0	1,0	—	—	N
Cl and Cr measured between: ***1. L and N on PCB;*** ***The shortest value is considered.***									
Between live parts and other metal parts over basic insulation:									

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

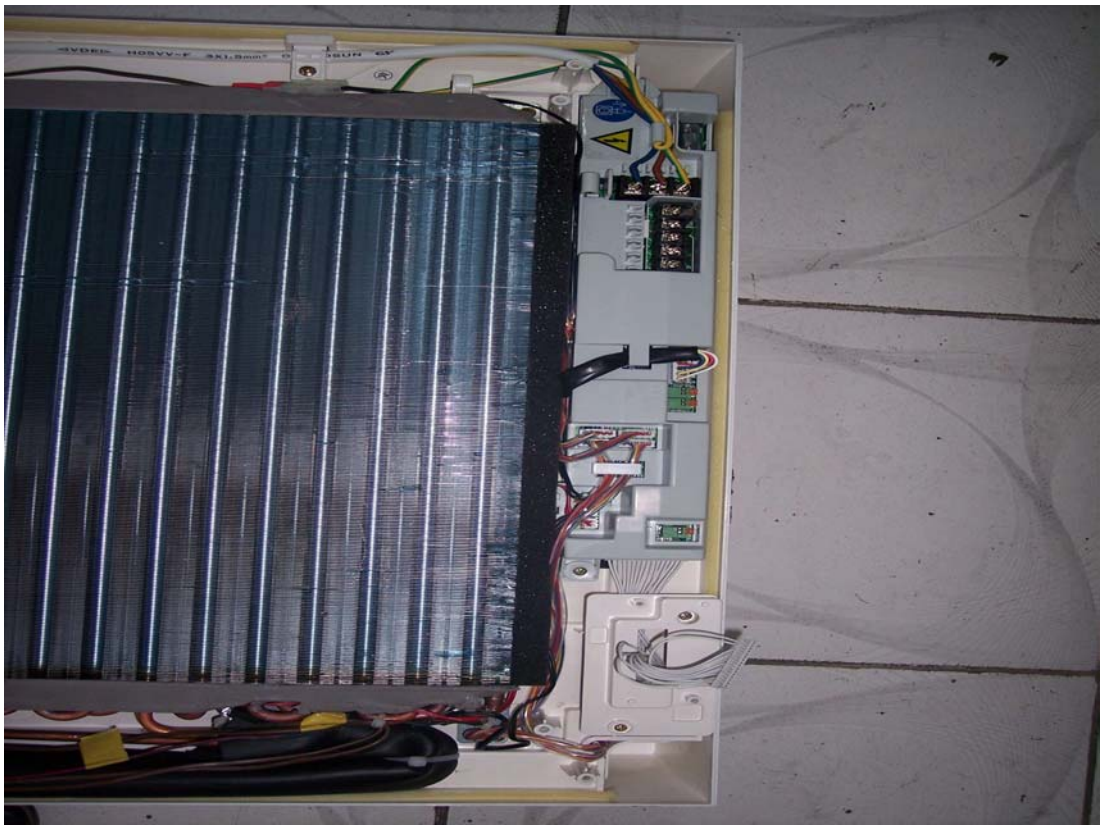
- if protected against deposition of dirt:										N
- if of ceramic material, pure mica and similar material	1,0	1,0	1,0	1,0	2,5	2,5	—	—		N
- if of other material	1,5	1,0	1,5	1,0	3,0	2,5	—	—		N
- if not protected against deposition of dirt	2,0	1,5	2,0	1,5	***4,0***	***4,0***	—	—		P
- if the live parts are lacquered or enamelled windings	1,0	1,0	1,5	1,5	***4,0***	***4,0***	—	—		P
- at the end of tubular sheathed-type heating elements	—	—	1,0	1,0	1,0	1,0	—	—		N
Cl and Cr measured between: ***1. Live part on PCB and earting metal part;*** ***2. Live part on PCB and lower voltage parts;*** ***The shortest value is considered.***										
Between live parts and other metal parts over reinforced insulation										
- if the live parts are lacquered or enamelled windings	—	—	6,0	6,0	6,0	6,0	—	—		N
- for other live parts	—	—	8,0	8,0	***10,0***	***10,0***	—	—		P
Cl and Cr measured between: ***1. Test finger and internal live part through the gap of enclosure.*** ***The shortest value is considered.***										
between metal parts separated by supplementary insulation	—	—	4,0	4,0	4,0	4,0	—	—		N
between live parts in recesses in the mounting face of the appliance and the surface to which it is fixed	2,0	2,0	6,0	6,0	6,0	6,0	—	—		N

--End of report--

Report Number: 12012834 002

Model: TOP 9ST R410A, TOP 9RC R410A
TOP 12ST R410A, TOP 12RC R410A

Picture 1



Picture 2

Picture 3

Picture 4