IEC IECEE CB SCHEME

Ref. Certif. No.

JPTUV-011039-M3

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	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 220-240V; 50Hz; Class I 1) 32W, 2) 40W, 3) 56W, 4) 59W, 5) 105W, 6) 60W, 7) 32W, 8) 40W IP20 (Indoor unit only); Refrigerant: R410A
Trade mark (if any) Marque de fabrique (si elle existe)	ELECTRA
Model/type Ref. Ref. de type	1) WNG25 DCI, 2) WNG35 DCI, 3) WNG50 DCI, 4) WNG60 DCI, 5) WNG 80 DCI, 6) WNG 72 DCI, 7) LEX25 DCI R410A, 8) LEX35 DCI R410A
Additional information (if necessary) Information complémentaire (si nécessaire)	For model differences, refer to the test report. Re-issue of JPTUV-011039-M2 dated 28.12.2005, due to third 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	12011466 004

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: 19.05.2006

Signature: Dipl.-Ing. M. Geiser

Appendix to CB Certificate JPTUV-011039-M3 PAGE 1 OF 1
Report Number: 12011466 004

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: 19.05.2006

Dipl.-Ing. M. Geiser

Yokohama Head Office
Shin Yokohama Daini Center Bldg.
3-19-5, Shin Yokohama
Kohoku-ku, Yokohama 222-0033, Japan
www.jpn.tuv.com
Tel. : (045) 470-1850
Fax : (045) 473-5221
e-mail : info@jpn.tuv.com

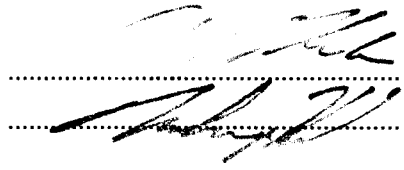
German Technology Assessment Center
4-25-2 Kita-Yamata
Tsuzuki-ku
Yokohama 224-0021, Japan
Tel. : (045) 914-3888
Fax : (045) 914-3377
e-mail : yoko-lab@jpn.tuv.com

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. ..... :	12011466 004
Compiled by (+ signature) ..... :	S. Kischka
Approved by (+ signature) ..... :	M. Kera
Contents..... :	8 pages
Date of issue..... :	2006-04-04



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 ..... :	LEX25 DCI R410A
	LEX35 DCI R410A
Manufacturer..... :	Same as applicant
Factory..... :	See page 2
Rating(s) ..... :	220-240V~ 50Hz
	Rated Power input: see rating label for details
	Refrigerant: R410A
	IP20

Summary of testing

The clause 17 and clause 29 are considered and check on the appliance.

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.12011466 001, dated 2005-05-17(Original report);

Ref.No.12011466 002, dated 2005-07-26(Modification report);

Ref.No.12011466 003, dated 2005-12-14(Modification report);

Ref.No.12011466 004, dated 2006-04-04(Modification report);

Copy of marking plate:

ELECTRA	**MODEL: LEX25 DCI R410A**	
PROD NO.:	Fuse: 15A(G)*	Cooling capacity: 2500(1400-3600) W *
TYPE:	COSφ=0.97	Heating capacity: 3400(1500-5000) W *
220-240V~ 50Hz	IP20 Rev.A	Dehumidification: 1.01 l/h
R-410A:	Prated::32 W	PS: 6.3MPa Ps: 0.8MPa
*is applied to single refrigerant circuit only		Temp.Class: T1 Weight: 10.5kg

ELECTRA	**MODEL: LEX35 DCI R410A**	
PROD NO.:	Fuse: 15A(G)*	Cooling capacity: 3500(1400-4300) W *
TYPE:	COSφ=0.97	Heating capacity: 4300(1500-5800) W *
220-240V~ 50Hz	IP20 Rev.A	Dehumidification: 1.5 l/h
R-410A:	Prated::40 W	PS: 6.3MPa Ps: 0.8MPa
*is applied to single refrigerant circuit only		Temp. Class: T1 Weight: 10.5kg

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 LEX25 DCI R410A is identical with issued model WNG25 DCI except the outlook grill, controller box is changed, also the PCB layout is changed;

   New models LEX35 DCI R410A is identical with issued model WNG35 DCI except the outlook grill, controller box is changed, also the PCB layout is changed;

   The model LEX25 DCI R410A is identical with model LEX35 DCI R410A except that:

   - The size of heating exchanger, by which, different cooling and heating capacity are achieved.
   - External size is different.

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
7	**MARKING**		P
7.1	Rated voltage or voltage range (V) ..... :	220-240V	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 labels	P
	Manufacturer's or responsible vendor's name, trademark or identification mark	ELECTRA	P
	Model or type reference	See rating labels	P
	Symbol for Class II	Class I	N
	Symbol for degree of protection against ingress of water, other than IPX0 (IEC 60335-2-40:1995)	IP20 (Not marked)	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)	See rating labels	P
	The maximum operating pressure for the heat exchanger (IEC 60335-2-40/A1:2000)	See rating labels	P
	Separate marking of the appliances with all the rated characteristics of the supplementary heaters (IEC 60335-2-40:1995)		N
	Marking of the direction of the fluid flow (IEC 60335-2-40:1995)		N
17	**OVERLOAD PROTECTION OF TRANSFORMERS AND ASSOCIATED CIRCUITS**		P
	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	See appended table	P
	Appliance supplied with 1,06 or 0,94 times rated voltage and the most unfavourable short-circuit or overload likely to occur in normal use applied		P
	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K		N
	Temperature of the winding not exceeding the value specified in table 6		P

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
	Except fail-safe transformer complying 15.5 of IEC 61558-1 (IEC 60335-1/A2:1999)		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
	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)		P
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

17.1	**TABLE: OVERLOAD PROTECTION**			P
	at 1,06 - 0,94 times rated voltage (V).....:	254V		-
	Test model::	DB36-EI35-1601		-
Short-circuit of:	Measured temperature (°C)	Limit temperature (°C)	Result	

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

SC secondary winding	115/118	225	P
Remark: the overload protector was operated on 3 minutes later.			

24.1	TABLE: COMPONENTS				P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Remark 1: For thermal cut-outs, thermal links of fan motors and transformers which have been approved according to relevant IEC standards, the manufacturer, types and characters not listed in the CDF but should be in this scope authorized by original certification bodies.					
Built-in components with windings: (motors, transformers, magnetic coils etc.)					
Transformer	Xiamen New Era Electronics	DB36-EI35-1601	Pri.: 220-240VAC, 50Hz Sec.: 14,0VAC 250mA Class: B	IEC 60335-2-40	Tested with appliance
Protector in transformer	Aupo electronics Ltd;	A4	250V 2A Operated temp.: 130°C	IEC 60335-2-40	VDE 50005586
Built-in components:(switches, thermostats, heater, plugs, wires, capacitors, sockets, rfi-filters etc.)					
Controller	EHK	DCI-WNG	--	IEC 60335-2-40	Tested with appliance

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;*** ***2. Input of transformer*** ***The shortest value is considered.***									
Between live parts and other metal parts over basic insulation:									
- 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

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

- 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. Winding of transformer and enclosure/body;*** ***3. 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--

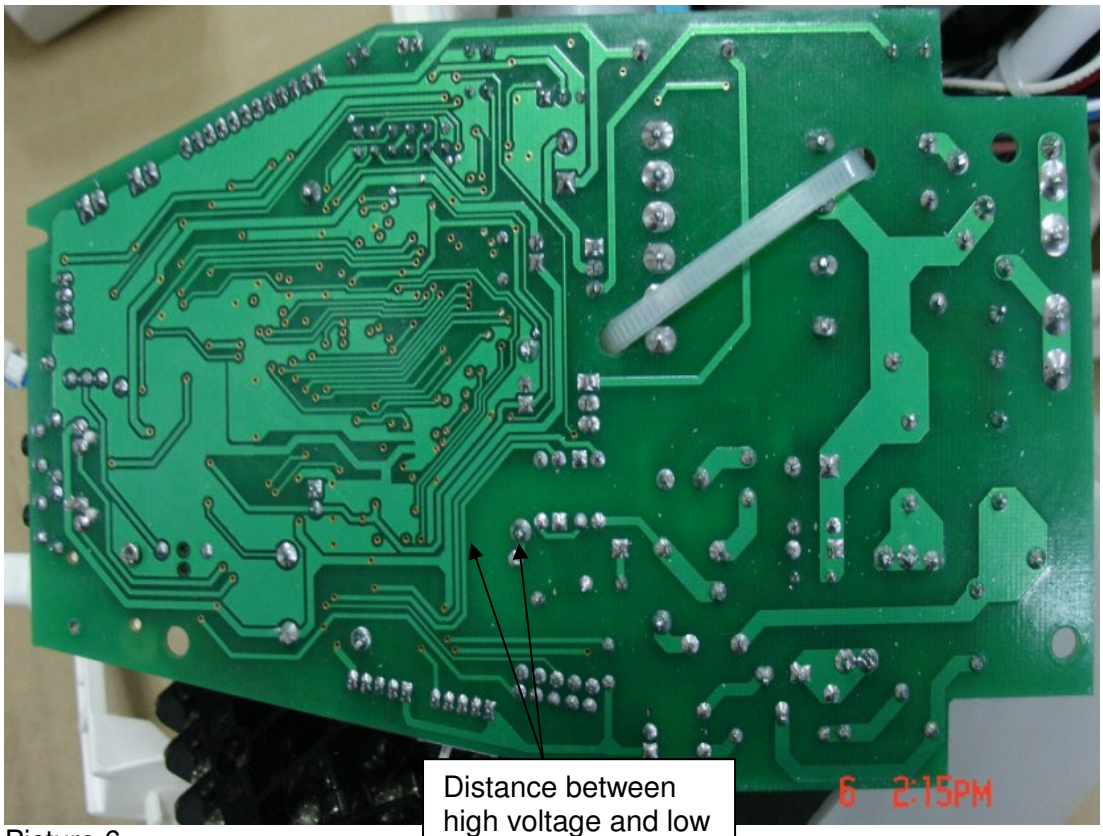
Picture 1

Picture 2

Picture 3

Picture 4

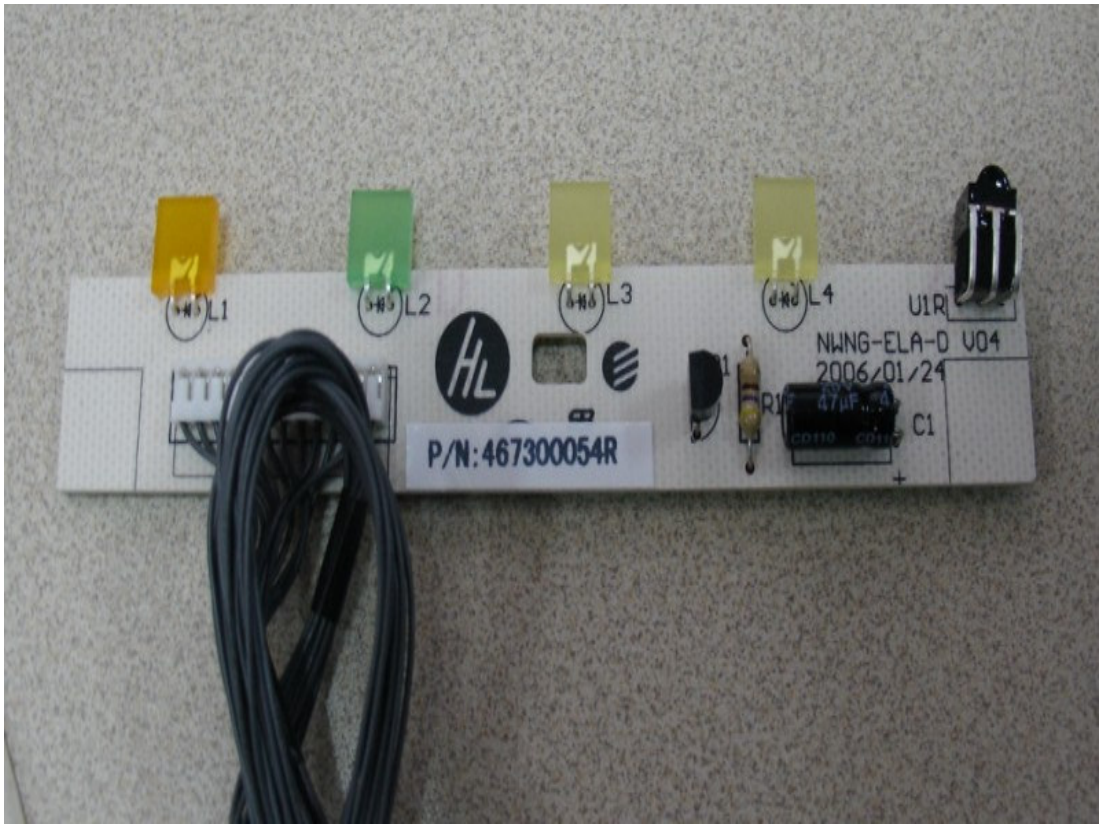
Picture 5



Distance between high voltage and low voltage: Cr=Cl=4mm

Picture 6

Picture 7



Picture 8