



Ref. Certif. No.

JPTUV-011389-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

Air conditioner outdoor 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; 3200W; Class I; IP24
Refrigerant: R410A

Trade mark (if any)
Marque de fabrique (si elle existe)

ELECTRA

Model/type Ref.
Ref. de type

DCI Trio 72 R410A, DCI Quattro 80 R410A

Additional information (if necessary)
Information complémentaire (si nécessaire)

For model differences, refer to the test report.
Re-issue of JPTUV-011389 dated 04.07.2005,
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

12011467 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 Rheinland Group

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Signature:

Dipl.-Ing. W. Herlitschke

Date: 17.10.2006

Appendix to CB Certificate JPTUV-011389-M1
Report Number: 12011467 002

PAGE 1 OF 1

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: 17.10.2006


Dipl.-Ing. W. Herlitschke

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.: 12011467 002
 Compiled by (+ signature).....: Leon Tan
 Approved by (+ signature).....: Stone Shi
 Contents.....: 11 Pages
 Date of issue: 2006-10-10

Leon Tan
Stone Shi

CB Testing laboratory Name: TÜV Rheinland (Guangdong) Ltd.
 Address: 43/F, Metro Plaza, 183 Tianhe Rd. North, Guangzhou 510620, P. R. China
 Testing location/procedure.....: CBTL SMT TMP
 Address: Unit C-101, No.11 Caipin Road, GZ Science City, Guangzhou 510663 P. R. China

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-scheme
 Non-standard test method: N.A.

Test Report Form No......: IEC60335_2_40C
 TRF originator.: AENOR
 Master TRF: Dated 2002-02

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Test item description.....: Air conditioner outdoor unit
 Trademark.....: ELECTRA
 Model and/or type reference: DCI Trio 72 R410A DCI Quattro 80 R410A
 Manufacturer.....: Same as applicant
 Factory.....: See page 2
 Rating(s).....: 220-240V~ 50Hz
 Rated Power input: 3200W
 Refrigerant: R410A

Summary of testing

- Input test, heating test and some abnormal tests were performed in enthalpy laboratory according to the standard IEC 60335-2-40 requirement.
- The test was performed on DCI Quattro 80 R410A to represent model DCI Trio 72 R410A.
- For missing clause, please refer to report 12011467 001.

Test items particulars

Serial Number : Phototype samples without series numbers
 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 : 2006-09-12
 Date(s) of performance of test..... : 2006-09-12—2006-09-29

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 IEC 60335-1.

The test results presented in this report relate only to the item tested.

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 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.12011467 001, dated 2005-06-22 (original report);

Ref. No.12011467 002, dated 2006-10-10 (modification report);

Description of modification:

This report is based on 12011467 001 and has modifications as following:

1. Change the licence holder 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. Add alternate components for two models, details please refer to table 24.1
4. The outdoor unit is matching with new indoor unit: DNG50 DCI, so the matching table is changed as below:

	Indoor unit 1(X ₂₅)	Indoor unit 2(Y ₃₅)	Indoor unit 3(Z ₅₀)
K series	K25 DCI R410A	K35 DCI R410A	K50 DCI R410A
WNG series	WNG25 DCI R410A	WNG35 DCI R410A	WNG50 DCI R410A
PXD seires	PXD25 DCI R410A	PXD35 DCI R410A	PXD50 DCI R410A
LS series	--	LS-35 DCI R410A	--
DNG series	--	--	DNG50 DCI R410A

Indoor units combination with outdoor unit DCI Trio 72 R410A is as below list, outdoor unit can connected with three different kind of indoor units at the same time.

The probable indoor unit combinations of DCI Trio 72 R410A
X ₂₅ + X ₂₅ + X ₂₅
X ₂₅ + X ₂₅ + Y ₃₅
X ₂₅ + X ₂₅ + Z ₅₀
X ₂₅ + Y ₃₅ + Y ₃₅
X ₂₅ + Y ₃₅ + Z ₅₀
Y ₃₅ + Y ₃₅ + Y ₃₅
Y ₃₅ + Y ₃₅ + Z ₅₀

Indoor units combination with outdoor unit DCI Quattro 80 R410A is as below list, outdoor unit can connected with different kind of indoor units at the same time.

The probable indoor unit combinations of DCI Quattro 80 R410A
X ₂₅ + X ₂₅ + X ₂₅ + X ₂₅
X ₂₅ + X ₂₅ + X ₂₅ + Y ₃₅
X ₂₅ + X ₂₅ + X ₂₅ + Y ₅₀
X ₂₅ + X ₂₅ + Y ₃₅ + Y ₃₅
X ₂₅ +X ₂₅ + Y ₃₅ + Z ₅₀
X ₂₅ + Y ₃₅ + Y ₃₅ + Y ₃₅
X ₂₅ + Y ₃₅ + Y ₃₅ + Z ₅₀
Y ₃₅ + Y ₃₅ + Y ₃₅ + Y ₃₅

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
10	POWER INPUT AND CURRENT		P
10.1	Power input at rated voltage and normal operating temperature not deviating from rated input by more than shown in table; measured power input (W); rated input (W); deviation	See appended table	P
10.2	Current at normal operating temperature not deviating from rated current by more than shown in table; measured current at rated voltage under normal operation (A); rated current (A); deviation	Not marked on rating label	N/A
11	HEATING		P
11.8	Monitored temperatures not exceeding the values of Table 3 (IEC 60335-2-40:1995)	See appended table 11.8. Values not exceeded.	P
	Protective devices do not operate		P
	Sealing compound not flowing out		P
	Temperature of the air in the outlet duct not exceeding 90 °C (IEC 60335-2-40:1995)		P
13	LEAKAGE CURRENT		P
13.1	Leakage current not excessive and electric strength adequate		P
13.2	Leakage current measured by means of circuit described in Annex G (IEC 60335-2-40:1995)		P
	Leakage current measurements	See appended table	P
13.3	Electric strength test of insulation. See Note in Interpretation Sheet I-SH 02, August 1994	See appended table	P
	No breakdown during the test	No breakdown observed.	P
24	COMPONENTS		P
24.1	Components comply with safety requirements in relevant IEC standards	Respective safety relevant components complying with international standards or equivalent national version.	P
	Motor-compressors not tested according to IEC 60335-2-34 (not necessary to meet all requirements of IEC 60335-2-34) (IEC 60335-2-40:1995)		N/A
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	Not applicable.	N/A

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
	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)	See appended table	P
	For motor-compressors with working voltages ≤ 250 V, 29.1 of IEC 60335-2-34 applies(IEC 60335-2-40:1995)		N/A
	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)	See appended table	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	Supplementary insulation of sleeving: min. 1,0 mm	P
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	Not applied.	N/A
	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	Not applied.	N/A
29.2.2	Supplementary or reinforced insulation inaccessible and does not exceed the maximum permissible temperature values	Not applied.	N/A
	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	Not applied.	N/A
30	RESISTANCE TO HEAT, FIRE AND TRACKING		P
30.1	See Annex H		P
	Relevant external parts of non-metallic material	Metal enclosure provided.	N/A
	Parts supporting live parts and parts providing supplementary or reinforced insulation sufficiently resistant to heat	PCB	P
	Ball-pressure test with a force of 20 N, diameter of impression not exceeding 2 mm		P
	External parts: at 75 °C		N/A
	Parts supporting live parts: at 125 °C	PCB	P
	Parts providing supplementary or reinforced insulation: temperature (°C)		N/A

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
30.2	Relevant parts of non-metallic material adequately resistant to ignition and spread of fire		P
30.2.1	Possible burning test of relevant parts according to Annex J	Not performed.	N/A
	Glow-wire test of Annex K made at temperature 550 °C		N/A
30.2.3	Appliances operated while unattended, possible bad-connection test according to Annex L		N/A
	Glow-wire test of Annex K made at 750 °C	PCB	P
	Possible needle-flame test according to Annex M	Not performed.	N/A
30.2.4	Parts of non-metallic material within a distance of 50 mm from parts not withstanding the tests of 30.2.2 or 30.2.3, subjected to the needle-flame test of Annex M	Test not performed.	N/A
30.3	Relevant insulating material have adequate resistance to tracking		P
	Tracking test at 175 V according to Annex N	PCB	P
	Tracking test at 250 V according to Annex N		N/A
	No hazard other than fire, tracking test at 175 V according to Annex N, and in addition needle-flame test of surrounding parts according to Annex M	(see Annex N)	P
	Possible needle-flame test of non-metallic material		N/A

IEC 60335-2-40												
Clause	Requirement - Test			Result - Remark		Verdict						
10.1	TABLE: INPUT DEVIATION MEASUREMENTS					P						
	Model:	DCI Quattro 80 R410A				-						
	Operation mode	Cooling mode and heating mode				-						
	Test voltage	230V				-						
	Test condition	Cooling mode(DB/WB °C): C1: Outdoor: 43/26 C2: Outdoor: 35/24	Heating mode(DB/WB °C): H1: Outdoor: 24/18 H2: Outdoor: 20/14 H3: Outdoor: 7/6		-							
Model: DCI Quattro 80 R410A												
Operation mode	Test condition (DB/WB °C)	P rated (W)	P measured (W)	Tested Frequency (Hz)	P deviation (%)	Required limit (%)						
Cooling	C1	3200	2788	55	-12,8%	+15%						
	C2	3200	3194	69	-0,2%	+15%						
Heating	H1	3200	3040	71	-5,0%	+15%						
	H2	3200	3081	80	-3,7%	+15%						
	H3	3200	3292	93	2,8%	+15%						
Remark:												
<ul style="list-style-type: none"> To achieve the biggest wattage, the test was combined with all different indoor unit and highest value was listed, the maximum power input is achieved by below combination: WNG25 DCI +LS-35 DCI R410A +PXD35 DCI +DNG50 DCI / DCI Quattro 80 R410A To achieve the most unfavorable test condition, the indoor unit were set in a chamber with temperature respectively: <table border="1" data-bbox="336 1469 1383 1617"> <tr> <td>C1: Indoor(DB/WB °C): 32/23</td> <td>H1: Indoor(DB/WB °C): 27/24</td> </tr> <tr> <td>C2: Indoor(DB/WB °C): 27/19</td> <td>H2: Indoor(DB/WB °C): 20/15</td> </tr> <tr> <td></td> <td>H3: Indoor(DB/WB °C): 20/15</td> </tr> </table> For the model, the highest power input generated at test condition C2 for cooling mode and H3 for heating mode. 							C1: Indoor(DB/WB °C): 32/23	H1: Indoor(DB/WB °C): 27/24	C2: Indoor(DB/WB °C): 27/19	H2: Indoor(DB/WB °C): 20/15		H3: Indoor(DB/WB °C): 20/15
C1: Indoor(DB/WB °C): 32/23	H1: Indoor(DB/WB °C): 27/24											
C2: Indoor(DB/WB °C): 27/19	H2: Indoor(DB/WB °C): 20/15											
	H3: Indoor(DB/WB °C): 20/15											

11.8	TABLE: TEMPERATURE RISE MEASUREMENTS			P
	Model:	DCI Quattro 80 R410A		-
	Operation mode	Cooling mode and heating mode		-
	Test voltage	254,4V		-
	Test condition	See remark 1		-
Temperature rise of part/at:			Measured temperature (°C)	Limit temperature (°C)

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
	Fan motor enclosure	58,6	150
	Compressor shell	75,9	150
	Filter capacitor C104	47,4	T85
	Filter Capacitor C112	47,1	T85
	4-way valve coil	56,4	115
	Transformer T101	49,8	90
	IPM module	70,8	For reference
Remark: Remark 1: For achieve the most unfavorable test result, the heating test performed on cooling and heating mode: Indoor: 27/19 outdoor: 35/24, (cooling mode) Indoor: 20/15 outdoor: 7/6, (heating mode) Remark 2: The test was performed on cooling and heating mode, the highest value was listed.			

13.2	TABLE: LEAKAGE CURRENT MEASUREMENTS AT OPERATING TEMPERATURE		P
Heating appliances: 1,15 times rated input (W) :		n.a.	-
Motor-operated and combined appliances: at 1,06 times rated voltage (V) :		254,4	-
Measured between:		Measured (mA)	Limit (mA)
L/N to earthed metal parts		0,98	3,5

13.3	TABLE: ELECTRICAL INSULATION AT OPERATING TEMPERATURE		P
Test voltage applied between:		Test voltage (V)	Result
L/N- GND		1000	No

24.1	TABLE: components-outdoor unit					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity	
Remark 1: For thermal cut-outs, thermal links of compressors, fan motors and transformers which have been approved according to relevant EN/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: (switches, thermostats, heater, plugs, wires, capacitors, sockets, RFI-filters etc.)						
Filter Board						
Fuse F1	Littelfuse	326020	250 VAC, 20A	--	UL E10480	

IEC 60335-2-40					
Clause	Requirement - Test			Result - Remark	Verdict
Fuse F2	Optional	Optional	250 VAC , 5A	IEC 60127	TUV or any CENELEC
Y2 Capacitor (C103,C105, C109,C110)	Evox Rifa	PME271Y series	250/300VAC, 0,015µF T70	IEC 60384-14	S 9920003/01
Alternate	Epcos	B81122 series	250/300VAC, 0,015µF T70	IEC 60384-14	ENEC 138603
Alternate	Vishay	2222 338 6 series / MKP 338 6 series	250/300VAC, 0,015µF T70	IEC 60384-14	ENEC 12549
Varistor	Centra	CNR14D561K	AC350V T85°C	CECC42200	VDE 005943
Alternate	Nippon Chemi-con	TNR14V561K	AC350V T85°C	CECC42200	VDE 118623
Alternate	JOYIN	JVR14N561K	AC350V T85°C	CECC42200	VDE 005937
Alternate	Thinking	TVR14561K	AC350V T85°C	CECC42200	VDE 005944
Alternate	Xianhua Advanced	FNR series	AC350V T85°C	CECC42200	VDE 40008242
Alternate	Lien Shun	ZOV14D561K	AC350V T85°C	CECC42200	VDE 40005858
PCB	Shengyi	S1155	94V0	--	UL E109769
Alternate	KINGBROAD	KB-5150 / 6150 / 7150	94V0	--	UL E123995
Alternate	JiangMen Benlida	FR-4 / CEM1	94V0	--	UL E203640
Alternate	TAT Chun	CEM1 / FR-4	94V0	--	UL E131175
Alternate	JUN DA	CEM1 / FR-4	94V0	--	UL E173873
Power board					
X2 Capacitor	Epcos	B81130 series	275VAC 0,15µF T70	IEC 60384-14	ENEC 138554
Varistor	Centra	CNR14D561K	AC350V T85°C	CECC42200	VDE 005943
Alternate	Nippon Chemi-con	TNR14V561K	AC350V T85°C	CECC42200	VDE 118623

IEC 60335-2-40					
Clause	Requirement - Test			Result - Remark	Verdict
Alternate	JOYIN	JVR14N561K	AC350V T85°C	CECC42200	VDE 005937
Alternate	Thinking	TVR14561K	AC350V T85°C	CECC42200	VDE 005944
Alternate	Xianhua Advanced	FNR series	AC350V T85°C	CECC42200	VDE 40008242
Alternate	Lien Shun	ZOV14D561K	AC350V T85°C	CECC42200	VDE 40005858
Relay	NAIS Matsushita	ALD112	AC250V, 3A, DC12V T mark: 55°C or above	IEC 60255	VDE 40014384
PCB	Shengyi	S1155	94V0	--	UL E109769
Alternate	KINGBROAD	KB-5150 / 6150 / 7150	94V0	--	UL E123995
Alternate	JiangMen Benlida	FR-4 / CEM1	94V0	--	UL E203640
Alternate	TAT Chun	CEM1 / FR-4	94V0	--	UL E131175
Alternate	JUN DA	CEM1 / FR-4	94V0	--	UL E173873

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	<u>3,1</u>	<u>3,1</u>	2,0	2,0	P
-if not protected against deposition of dirt	2,0	1,5	2,0	1,5	<u>4,0</u>	<u>4,0</u>	4,0	3,0	P
-if lacquered or enameled windings	1,0	1,0	1,5	1,5	<u>4,0</u>	<u>4,0</u>	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/A
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/A	
- if of ceramic material, pure mica and similar material	1,0	1,0	1,0	1,0	2,5	2,5	—	—	N/A	
- if of other material	1,5	1,0	1,5	1,0	3,0	2,5	—	—	N/A	
- if not protected against deposition of dirt	2,0	1,5	2,0	1,5	<u>4,0</u>	<u>4,0</u>	—	—	P	
- if the live parts are lacquered or enamelled windings	1,0	1,0	1,5	1,5	<u>4,0</u>	<u>4,0</u>	—	—	P	
- at the end of tubular sheathed-type heating elements	—	—	1,0	1,0	1,0	1,0	—	—	N/A	
Cl and Cr measured between:										
1. Live part on PCB and earthing 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/A	
- for other live parts	—	—	8,0	8,0	<u>10,0</u>	<u>10,0</u>	—	—	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/A	
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/A	
30	TABLE: material test								P	
Part	Ball-pressure test		Glow-wire test		Tracking test (V)					
	Temp.(°C)	Diameter (mm)	Temp. (°C)	Burning time(s)						
PCB	125	0,6	750	0	175V					
Remark: the test was performed on all materials and highest value was listed.										

--End of report--