

Ref. Certif. No.

JPTUV-013076-M2

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

Name and address of the applicant Nom et adresse du demandeur

Name and address of the manufacturer Nom et adresse du fabricant

Name and address of the factory Nom et adresse de l'usine

Rating and principal characteristics Valeurs nominales et caractéristiques principales

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

Model/type Ref. Ref. de type

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

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

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 Room air conditioner indoor unit

Electra Consumer Products 21 Aminadav St., Tel-Aviv 67067, Israel

Electra Consumer Products 21 Aminadav St., Tel-Aviv 67067, Israel

(See appendix for factories information)

AC 220V-230V; 50Hz; Class I rated power input: refer to the test report IP20; Refrigerant: R22, R407C or R410A

ELECTRA

WMF series TOP series For details: refer to the test report.

For model differences, refer to the test report. Re-issue of JPTUV-013076-M1 dated 13.04.2006, due to second modification.

IEC 60335-2-40:1995+A1 IEC 60335-1:1991+A1+A2

12012834 003

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



20.09.2006

Date:

TÜV Rheinland Group

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

TÜV Rheinland Japan Ltd.

Signature:

oku-ku Diol.-Ing. M. Geiser

10/061 CB 4.03



TÜV Rheinland Group

Appendix to CB Certificate JPTUV-013076-M2 Report Number: 12012834 003

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: 20.09.2006

 TÜV Rheinland Japan Ltd.

 German Technology Assessment Center

 4-25-2 Kita-Yamata
 Tel :+81-45-914-3888

 Tsuzuki-ku
 Fax :+81-45-914-3377

 Yokohama 224-0021, Japan
 www.jpn.tuv.com

Geiser Øipl Μ.

テュフ ラインランド ジャパン株式会社 テクノロジーセンター 〒224-0021 横浜市都筑区北山田4-25-2 Tel

Tel : 045-914-3888 Fax : 045-914-3377 e-mail : yoko-lab@jpn.tuv.com



TÜV Rheinland Group

TEST REPORT IEC 60335-2-40 Safety of household and similar electrical appliances Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers Report Reference No 12012834 003 Compile by (+ signature) S. Kischka Approved by (+ signature) M. Kera Contents 8 pages Date of issue 2006-09-11 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 Address Same as above Applicant's Name ELECTRA CONSUMER PRODUCTS Address 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 apport Form No. IEC 60335-2.40C TRF originator AENOR Master TRF Dated 2002-02 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical		Page 1 of 8	12012834 003							
Safety of household and similar electrical papilances Part 2: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers Report Reference No. 12012834 003 Compiled by (+ signature) S. Kischka Approved by (+ signature) M. Kera Contents. 8 pages Date of issue. 2006-09-11 CB Testing laboratory Name TUV Rheinland Japan Ltd., Yokohama Laboratory Address 4-25-2 Kita-Yamata, Tsuzuki-ku, Yokohama 224-0021, Japan Testing laboratory Name ELECTRA CONSUMER PRODUCTS Address Same as above Applicant's Name ELECTRA CONSUMER PRODUCTS Address 21 Aminadav St, Tel-Aviv, 67067 Israel Test specification Standard 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 procedure CB Naster TRF Dated 2002-02 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part or non-commercial purposes as long as the IECEE is achonowledged as copyright vorear and source of		TEST REPORT								
Part 2: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers Report Reference No	IEC 60335-2-40									
Complied by (+ signature) S. Kischka Approved by (+ signature) M. Kera Contents. 8 pages Date of issue 2006-09-11 CB Testing laboratory Name TUV 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 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. IEC 60335_2_40C TRF originator. AENOR Master TRF. Dated 2002-02 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced mate	Part 2: Particular requirements for electrical heat pumps, air-conditioners and									
Approved by (+ signature) M. Kera Contents. 8 pages Date of issue 2006-09-11 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 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 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item desc	Report Reference No:	12012834 003	SUR							
Contents	Compiled by (+ signature):	S. Kischka								
Date of issue : 2006-09-11 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 X SMT T TMP Address : Same as above Address 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 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE tasks no responsibility for and will not assume liability for damages resulting from the reader's Interpretation of the reproduced material due to Its placement and context. Test item description. : Room air conditioner indoor unit Trademark : ELECTRA Model and/or type re	Approved by (+ signature):	M. Kera								
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 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 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description : Room air conditioner indoor unit Trademark : ELECTRA Model and/or type reference <td< td=""><td>Contents</td><td>8 pages</td><td>- <i>9</i>*</td></td<>	Contents	8 pages	- <i>9</i> *							
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 Copyright © 2002 IEC System for Conformitly Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test Item description : Room air conditioner indoor unit Trademark : ELECTRA Model and/or type reference. : T	Date of issue	2006-09-11								
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. 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 Copyright © 2002 IEC System for Conformitly Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test Item description. Room air conditioner indoor unit Trademark ELECTRA Model and/or type reference. TOP series (See model list on page 5) Manufacturer. Same as applicant Factory. See page 2 Rated Power input: see rating la	CB Testing laboratory Name	TÜV Rheinland Japan Ltd., Yokohama	Laboratory							
Address Same as above Applicant's Name ELECTRA CONSUMER PRODUCTS Address 21 Aminadav St, Tel-Aviv, 67067 Israel Test specification 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. IEC 60335_2_40C TRF originator. AENOR Master TRF Dated 2002-02 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test ttem description. Room air conditioner indoor unit Trademark ELECTRA Model and/or type reference. TOP series (See model list on page 5) Manufacturer. Same as applicant Factory. See page 2 Rated Power input: see rating labels Refrigerant: R22, R407C	Address:	4-25-2 Kita-Yamata, Tsuzuki-ku, Yokoh	ama 224-0021, Japan							
Applicant's Name ELECTRA CONSUMER PRODUCTS Address 21 Aminadav St, Tel-Aviv, 67067 Israel Test specification Standard 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. IEC 60335_2_40C TRF originator. AENOR Master TRF Dated 2002-02 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description Room air conditioner indoor unit Trademark ELECTRA Model and/or type reference TOP series (See model list on page 5) Manufacturer Same as applicant Factory See page 2 Rating(s) 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Testing location/procedure:	CBTL 🛛 SMT 🗌	тмр							
Address : 21 Aminadav St, Tel-Aviv, 67067 Israel Test specification : 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 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description. : Room air conditioner indoor unit Trademark : ELECTRA Model and/or type reference. : TOP series (See model list on page 5) Manufacturer. : Same as applicant Factory. : See page 2 Rated Power input: see rating labels Refrigerant: R22, R407C	Address	Same as above								
Test specification Standard IEC 60335-2-40:1995 + A1:2000 used in conjunction with IEC 60335-1:1991 + A1:1994 + A2:1999 Test procedure	Applicant's Name	ELECTRA CONSUMER PRODUCTS								
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 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description. Room air conditioner indoor unit Trademark ELECTRA Model and/or type reference. TOP series (See model list on page 5) Manufacturer. Same as applicant Factory. See page 2 Rating(s). 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Address	21 Aminadav St, Tel-Aviv, 67067 Israel								
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 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for ad will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description Room air conditioner indoor unit Trademark ELECTRA Model and/or type reference TOP series (See model list on page 5) Manufacturer Same as applicant Factory See page 2 Rating(s) 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Test specification									
Non-standard test method N.A. Test Report Form No. IEC60335_2_40C TRF originator. AENOR Master TRF. Dated 2002-02 Copyright @ 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description. Room air conditioner indoor unit Trademark ELECTRA Model and/or type reference. TOP series (See model list on page 5) Manufacturer. Same as applicant Factory. See page 2 Rating(s). 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Standard:		conjunction with							
Test Report Form No. IEC60335_2_40C TRF originator. AENOR Master TRF. Dated 2002-02 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description Room air conditioner indoor unit Trademark ELECTRA Model and/or type reference. TOP series (See model list on page 5) Manufacturer. Same as applicant Factory. See page 2 Rating(s). 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Test procedure:	СВ								
TRF originator. AENOR Master TRF. Dated 2002-02 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description. Room air conditioner indoor unit Trademark ELECTRA Model and/or type reference. TOP series (See model list on page 5) Manufacturer. Same as applicant Factory. See page 2 Rating(s). 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Non-standard test method:	N.A.								
Master TRF Dated 2002-02 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description Room air conditioner indoor unit Trademark ELECTRA Model and/or type reference TOP series (See model list on page 5) Manufacturer Same as applicant Factory See page 2 Rating(s) 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Test Report Form No	IEC60335_2_40C								
Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description	TRF originator	AENOR								
Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description Room air conditioner indoor unit Trademark ELECTRA Model and/or type reference TOP series (See model list on page 5) Manufacturer Same as applicant Factory See page 2 Rating(s) 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Master TRF:	Dated 2002-02								
as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item description		ormity Testing and Certification of Electric	al Equipment (IECEE), Geneva,							
TrademarkELECTRAModel and/or type referenceTOP series (See model list on page 5)ManufacturerSame as applicantFactorySee page 2Rating(s)220-230V~ 50HzRated Power input: see rating labelsRefrigerant: R22, R407C	as copyright owner and source of the mate	erial. IECEE takes no responsibility for and w	ill not assume liability for damages							
Model and/or type referenceTOP series (See model list on page 5)ManufacturerSame as applicantFactorySee page 2Rating(s)220-230V~ 50HzRated Power input: see rating labelsRefrigerant: R22, R407C	Test item description	Room air conditioner indoor unit								
Manufacturer: Same as applicant Factory: See page 2 Rating(s): 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Trademark	ELECTRA								
Factory: See page 2 Rating(s): 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Model and/or type reference	TOP series (See model list on page 5)								
Rating(s): 220-230V~ 50Hz Rated Power input: see rating labels Refrigerant: R22, R407C	Manufacturer:	Same as applicant								
Rated Power input: see rating labels Refrigerant: R22, R407C	Factory	See page 2								
Refrigerant: R22, R407C	Rating(s)	220-230V~ 50Hz								
-		Rated Power input: see rating labels								
IP20		Refrigerant: R22, R407C								
		IP20								

www.tuv.com **TÜV Rheinland Group** Page 2 of 8 12012834 003 Summary of testing 1. The modified appliance is checked according to clause 7 and 29, for other clause, please refer to report 12012834 001. **Test items particulars** Serial Number Prototype samples without series models 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: 2006-08-31 Date(s) of performance of test..... 2006-08-31-2006-09-05 **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); Ref.No.12012834 003, dated 2006-09-11(Modification report);



TÜV Rheinland Group

	Page 3 of 8		12012834 0
opy of marking pla	ite:		
ELECTRA	MODEL: TOP 9 RC R22		
PROD NO.:	Fuse: 10A(G)		
TYPE:	COSφ=0.95		
	•	Deburgidification	1.01/b
220-230V~ 50Hz	IP20 Rev.A	Dehumidification:	
R22:	Prated: 32W	PS: 4.4MPa	Ps: 0.6MPa
		Temp.Class: T1	Weight: 13.5kg
ELECTRA	MODEL: TOP 9 ST R22		
PROD NO.:	Fuse: 10A(G)		
TYPE:	COSφ=0.95		
220-230V~ 50Hz	IP20 Rev.A	Dehumidification:	1.3 l/h
R22:	Prated: 32W	PS: 4.4MPa	Ps: 0.6MPa
		Temp.Class: T1	Weight: 13.5kg
			Trongina rotorig
ELECTRA	MODEL: TOP 12 RC R22		
PROD NO.:	Fuse: 15A(G)		
TYPE:	COSφ=0.95		
220-230V~ 50Hz	IP20 Rev.A	Dehumidification:	1.5 l/h
R22:	Prated: 42W	PS: 4.4MPa	Ps: 0.6MPa
		Temp.Class: T1	Weight: 14kg
ELECTRA	MODEL: TOP 12 ST R22		
PROD NO.:	Fuse: 15A(G)		
TYPE:	COSφ=0.95		
220-230V~ 50Hz	IP20 Rev.A	Dehumidification:	1 5 l/b
R22:	Prated: 42W	PS: 4.4MPa	Ps: 0.6MPa
R22.			
		Temp.Class: T1	Weight: 14kg



TÜV Rheinland Group

Page 4 of 8

12012834 003

LECTRA	MODEL: TOP 9 RC R407C		
ROD NO.:	Fuse: 10A(G)		
YPE:	COSφ=0.95		
20-230V~ 50Hz		Dehumidification: 1.	3 l/h
8407C:	Prated: 32W	PS: 4.4MPa	Ps: 0.6MPa
		Temp.Class: T1	Weight: 13.5kg
LECTRA	MODEL: TOP 9 ST R407C		
ROD NO.:	Fuse: 10A(G)		
YPE:	COSφ=0.95		
20-230V~ 50Hz	IP20 Rev.A	Dehumidification: 1.	3 l/h
407C:	Prated: 32W	PS: 4.4MPa	Ps: 0.6MPa
		Temp.Class: T1	Weight: 13.5kg
LECTRA	MODEL: TOP 12 RC R407C		
PROD NO.:	Fuse: 15A(G)		
YPE:	COSφ=0.95		
20-230V~ 50Hz	IP20 Rev.A	Dehumidification: 1.	5 l/h
R407C:	Prated: 42W	PS: 4.4MPa	Ps: 0.6MPa
		Temp.Class: T1	Weight: 14kg
LECTRA	MODEL: TOP 12 ST R407C		
PROD NO.:	Fuse: 15A(G)		
YPE:	COSφ=0.95		
20-230V~ 50Hz	IP20 Rev.A	Dehumidification: 1.	5 l/h
R407C:	Prated: 42W	PS: 4.4MPa	Ps: 0.6MPa
		Temp.Class: T1	Weight: 14kg



TÜV Rheinland Group

Desciption of modification:

12012834 003

1. Additional models approval.

The additional models TOP series are identical with corresponding certified models TOP* R410A series except the new models have different outer enclosure, the new models are matching with different outdoor unit, detailes please refer to photo document.

Page 5 of 8

Model list:

-		1				
No.	Additional model name	Previous certified corresponding models	Rated Voltage	Rated input	Refrigerant	Remark
1	TOP 9RC R22	TOP 9RC R410A	220-230V	32W	R22	Reverse type
2	TOP 9ST R22	TOP 9ST R410A	220-230V	32W	R22	Cooling mode
3	TOP 12RC R22	TOP 12RC R410A	220-230V	42W	R22	Reverse type
4	TOP 12ST R22	TOP 12ST R410A	220-230V	42W	R22	Cooling mode
5	TOP 9RC R407C	TOP 9RC R410A	220-230V	32W	R407C	Reverse type
6	TOP 9ST R407C	TOP 9ST R410A	220-230V	32W	R407C	Cooling mode
7	TOP 12RC R407C	TOP 12RC R410A	220-230V	42W	R407C	Reverse type
8	TOP 12ST R407C	TOP 12ST R410A	220-230V	42W	R407C	Cooling mode



TÜV Rheinland Group

Page 6 of 8

12012834 003

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

7	MARKING		Р
7.1	Rated voltage or voltage range (V):	220-230V	Р
	Symbol for nature of supply including number of phases, unless for single phase operation (IEC 60335-2-40:1995)	~	Р
	Rated frequency or frequency range (Hz):	50Hz	Р
	Rated input or rated current	See rating label.	Р
	Manufacturer's or responsible vendor's name, trademark or identification mark	ELECTRA	Р
	Model or type reference	See rating label	Р
	Symbol for Class II	Class I appliance	N/A
	Symbol for degree of protection against ingress of water, other than IPX0 (IEC 60335-2-40:1995)	IP20	N/A
	Mass of the refrigerant or of each refrigerant in a blend (except for azeotropic type (IEC 60335-2-40:1995)		N/A
	Refrigerant identification (IEC 60335-2-40:1995)	R22, R407C	Р
	Permissible excessive operating pressure in pascals for sanitary hot water heat pumps (IEC 60335-2-40:1995)		N/A
	Excessive operating pressure of the refrigerant circuit for suction and discharge, if they differ (IEC 60335-2-40:1995)	Specified on rating label	Р
	The maximum operating pressure for the heat exchanger (IEC 60335-2-40/A1:2000)		Р
	Separate marking of the appliances with all the rated characteristics of the supplementary heaters (IEC 60335-2-40:1995)	No supplementary heaters	N/A
	Marking of the direction of the fluid flow (IEC 60335-2-40:1995)		N/A
29	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH INSULATION		Р
29.1	Creepage distances and clearances not less than specified in table 13	(See appended table)	Р
	Values increased by 4 mm in case of reinforced insulation when resonance voltage		N/A
	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)		Р



TÜV Rheinland Group

Page 7 of 8

12012834 003

	IEC 60335-2-40		
Clause	Requirement - Test	Result - Remark	Verdict
	For motor-compressors with working voltages \leq 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)		N/A
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/A
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/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		N/A
29.2.2	Supplementary or reinforced insulation inaccessible and does not exceed the maximum permissible temperature values		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		N/A

29.1 TABLE: MINIMUM CREEPAGE DISTANCES AND CLEARANCES									Р
Creepage (cr) and clearance (cl) distance (mm):	Class III Other appliances, working voltage		ge:	Remark					
			< 13	80 V	130-2	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>3,0</u>	<u>3,0</u>	2,0	2,0	Р
- if not protected against deposition of dirt	2,0	1,5	2,0	1,5	<u>4,0</u>	<u>4,0</u>	<u>4,0</u>	<u>3,0</u>	Р
- 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	Р
- 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

TRF No:IEC60335_2_40C

TRF originator: AENOR



Page 8 of 8 12012834 003 IEC 60335-2-40 IEC 60335-2-40 Clause Requirement - Test Result - Remark Verdict

CI 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:

								N/A
1,0	1,0	1,0	1,0	2,5	2,5			N/A
1,5	1,0	1,5	1,0	3,0	2,5			N/A
2,0	1,5	2,0	1,5	<u>4,0</u>	<u>4,0</u>		_	Р
1,0	1,0	1,5	1,5	<u>4,0</u>	<u>4,0</u>			Р
		1,0	1,0	1,0	1,0			N/A
hing n	netal pa	art;						
The shortest value is considered.								
	1,5 2,0 1,0	1,5 1,0 2,0 1,5 1,0 1,0	1,5 1,0 1,5 2,0 1,5 2,0 1,0 1,0 1,5	1,5 1,0 1,5 1,0 2,0 1,5 2,0 1,5 1,0 1,0 1,5 1,5 1,0 1,0	$1,5$ $1,0$ $1,5$ $1,0$ $3,0$ $2,0$ $1,5$ $2,0$ $1,5$ $\underline{4,0}$ $1,0$ $1,0$ $1,5$ $1,5$ $\underline{4,0}$ $$ $$ $1,0$ $1,0$ $1,0$ $1,0$	1,5 $1,0$ $1,5$ $1,0$ $3,0$ $2,5$ $2,0$ $1,5$ $2,0$ $1,5$ $4,0$ $4,0$ $1,0$ $1,0$ $1,5$ $1,5$ $4,0$ $4,0$ $$ $$ $1,0$ $1,0$ $1,0$ $1,0$ $1,0$	1,5 $1,0$ $1,5$ $1,0$ $3,0$ $2,5$ $2,0$ $1,5$ $2,0$ $1,5$ $4,0$ $1,0$ $1,0$ $1,5$ $1,5$ $4,0$ $1,0$ $1,0$ $1,5$ $1,5$ $4,0$ $1,0$ $1,0$ $1,0$ $1,0$ $1,0$	1,5 1,0 1,5 1,0 3,0 2,5

Between live parts and other metal parts over reinforced insulation

- for other live parts			8,0	8,0	<u>10,0</u>	<u>10,0</u>	 	Р
 if the live parts are lacquered or enamelled windings 			6,0	6,0	6,0	6,0		N/A
between live parts and other metal parts over reinforced insulation								

Cl and Cr measured between:

1. Test finger and internal live part through the gap of enclosure.

The shortest value is considered.

--End of report--



TÜV Rheinland Group

TOP 9RC R22, TOP 9ST R22 TOP 12RC R407C, TOP 12ST R407C Model:



Picture 1





TÜV Rheinland Group

Model:





Picture 3





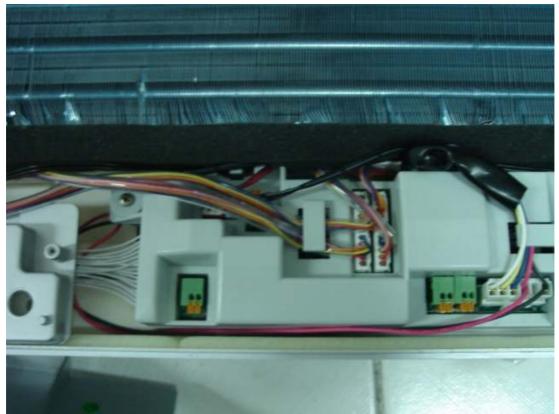
TÜV Rheinland Group

Model:

TOP 9RC R22, TOP 9ST R22 TOP 12RC R407C, TOP 12ST R407C



Picture 5





TÜV Rheinland Group

Model: TOP 9RC R22, TOP 9ST R22 TOP 12RC R407C, TOP 12ST R407C



Picture 7

