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| <p>TEST REPORT IEC 60335-2-96 Safety of household and similar electrical appliances Part 2 : Particular requirements for flexible sheet heating elements for room heating</p> | |
| Report Reference No..... | 21150887 003 |
| Date of issue..... | 18.06.2014 |
| Total number of pages | 4 |
| CB Testing Laboratory | TÜV Rheinland LGA Products GmbH |
| Address | Am Grauen Stein 29 51105 Köln |
| Applicant's name | eCO2heat GmbH |
| Address | Zu den Sandbeeten 1 35043 Marburg |
| Test specification: | |
| Standard | IEC 60335-2-96:2002 (First Edition) + A1:2003 + A2: 2008 (incl. Corrigendum 1:2003) in conjunction with IEC 60335-1:2001 (4. Edition) (incl. Corrigendum 1:2002) + A1:2004 + A2:2006 (incl. Corrigendum 1:2006) |
| Test procedure | Type approval |
| Non-standard test method..... | N/A |
| Test Report Form No | IEC60335_2_96E |
| Test Report Form(s) Originator | DEKRA Certification B.V. |
| Master TRF | Dated 2012-12 |
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| Test item description | Flexible sheet heating element |
| Trade Mark | Infrared Heating Systems |
| Manufacturer | eCO2heat GmbH Zu den Sandbeeten 1 35043 Marburg |
| Model/Type reference..... | 70150SWHE 70200 SWHE |
| Ratings | 470W 630W 230V 50/60Hz |

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| Testing procedure and testing location: | |
| <input checked="" type="checkbox"/> CB Testing Laboratory: Testing location/ address.....: | TÜV Rheinland LGA Products GmbH Am Grauen Stein 29 51105 Köln |
| <input type="checkbox"/> Associated CB Laboratory: Testing location/ address.....: | |
| Tested by (name + signature).....: | M. Lüttmann (SV) |
| Approved by (+ signature): | C. Stump (TC) <div style="text-align: right; margin-top: 10px;">  </div> |
| <input type="checkbox"/> Testing procedure: TMP Tested by (name + signature).....: Approved by (+ signature): Testing location/ address.....: | |
| <input type="checkbox"/> Testing procedure: WMT Tested by (name + signature).....: Witnessed by (+ signature).....: Approved by (+ signature): Testing location/ address.....: | |
| <input type="checkbox"/> Testing procedure: SMT Tested by (name + signature).....: Approved by (+ signature): Supervised by (+ signature).....: Testing location/ address.....: | |
| <input type="checkbox"/> Testing procedure: RMT Tested by (name + signature).....: Approved by (+ signature): Supervised by (+ signature).....: Testing location/ address.....: | |

| | |
|---|--|
| Summary of testing: PASS | |
| Tests performed (name of test and test clause): | Testing location: |
| All items of this short report were tested in | TÜV Rheinland LGA Products GmbH Am Grauen Stein 29 51105 Köln |
| Summary of compliance with National Differences: | |
| CENELEC deviations checked. All items EN 60335-2-96/A2 are included in IEC 60335-2-96. No additional report with Group deviations issued. | |
| The product fulfils the requirements of EN 60335-1: 2002 + A1 + A11 + A12 + A2 + A13 + A14 + A15 and EN 60335-2-96: 2002 + A1 + A2 | |
| Copy of marking plate: | |
| See report 21150887 001 and 002 | |
| Test item particulars | |
| Classification of installation and use | Built-in |
| Supply Connection..... | Fix connection power cord; tested without power cord |
| | |
| | |
| 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 | 28.01.2014 (A000059678) |
| Date (s) of performance of tests | June 2014 |

General remarks:

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

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

"(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.

General product information:

History of testreport:

21150887 001 basic report for heating elements

21150887 002 modification: new name of manufacturer, addition: EN 60335-1/A14 and A15

This report is only valid together with the reports mentioned above.

In this report 21150887 003 the following amendment is added:

EN 60335-2-96: 2002/A2: 2009

All relevant test items are inside this short report.

No measurements done, no test equipment used

TRLP order no: 3098668

| IEC 60335-2-96/A2 | | | |
|-------------------|--|-----------------------------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 7.12.103 | Instructions for applications on floors where heating units can be covered by tiles, unless the heating units are class I, class II or class III. | | N/A |
| 29.3 | No dimensional requirements for the insulation of flexible sheet heating elements or additional electrical insulation. | | P |
| 29.3.2 | For class II heating units, there shall be two layers of insulation on the flexible sheet heating element and each of these layers shall withstand the electric strength test of 16.3 for reinforced insulation. However, if the layers are inseparable, the combination shall withstand the electric strength test of 16.3 for reinforced insulation. | 29.3.3 was tested in 21150887 001 | N/A |