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|  | Test Report issued under the responsibility of: NCB TÜV SÜD Product Service GmbH Ridlerstr. 65, 80339 Munich Germany |  |
| TEST REPORT IEC 60335-2-21 Safety of household and similar electrical appliances Part 2: Particular requirements for water heaters | | |
| Report Reference No. : 077-225889-000 Date of issue : 2010-03-30 Total number of pages : 66 pages | | |
| CB Testing Laboratory : TÜV SÜD Korea Laboratory (TKL) Address : #315 and 316, MARIO Tower, 222-12, Guro-Dong, Guro-Gu, 152-050, Seoul, REPUBLIC OF KOREA | | |
| Applicant's name : HYUNDAI WacorTec Co., Ltd. Address : 684-49, Gongreung-dong, Nowon-Ku, Seoul, Republic of Korea | | |
| Test specification: Standard : IEC 60335-2-21 : 2002 (Fifth Edition) (incl. Corr.1:2007) + A1:2004 + A2: 2008 used in conjunction with IEC 60335-1:2001 (Fourth ed.) (incl. Corr.1:2002) + A1:2004 + A2:2006 (incl. Corr. 1:2006) Test procedure : CB Non-standard test method : N/A | | |
| Test Report Form No. : IEC60335_2_21C Test Report Form(s) Originator : LCIE. Master TRF : Dated 2009-01 | | |
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| Test item description : Hot & Cold Water Purifier System Trade Mark :  HYUNDAI Manufacturer : Same as applicant Model/Type reference : W2-360, W2-360H, W2-340 Ratings : 100 V~; 50/60 Hz; 2,0 A, 130 W (Cold); 4,0 A, 400 W (Hot); Climate Class N; IPX1 | | |

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| Testing procedure and testing location: | |
| <input checked="" type="checkbox"/> CB Testing Laboratory: | TÜV SÜD Korea Laboratory (TKL) |
| Testing location/ address | #315 and 316, MARIO Tower, 222-12, Guro-Dong, Guro-Gu, 152-050, Seoul, REPUBLIC OF KOREA |
| <input type="checkbox"/> Associated CB Laboratory: | N/A |
| Testing location/ address | N/A |
| Tested by (name + signature)..... | Chris Seo  |
| Approved by (+ signature)..... | Brian Cha  |
| <input type="checkbox"/> Testing procedure: TMP | |
| Tested by (name + signature)..... | N/A |
| Approved by (+ signature)..... | N/A |
| Testing location/ address | N/A |
| <input type="checkbox"/> Testing procedure: WMT | |
| Tested by (name + signature)..... | N/A |
| Witnessed by (+ signature)..... | N/A |
| Approved by (+ signature)..... | N/A |
| Testing location/ address | N/A |
| <input type="checkbox"/> Testing procedure: SMT | |
| Tested by (name + signature)..... | N/A |
| Approved by (+ signature)..... | N/A |
| Supervised by (+ signature) | N/A |
| Testing location/ address | N/A |
| <input type="checkbox"/> Testing procedure: RMT | |
| Tested by (name + signature)..... | N/A |
| Approved by (+ signature)..... | N/A |
| Supervised by (+ signature) | N/A |
| Testing location/ address | N/A |



Summary of testing:

- All tests were conducted on model W2-360H and W2-360.
- The items tested were found to be in compliance with the test standards of IEC 60 335-2-21:2002 (Fifth edition) in conj. with IEC 60335-1: 2001 (Fourth edition) concerning hot water storage system in the product and test standards of IEC 60335-2-24:2002 (Sixth edition) concerning cold water storage system in the product.
- The item tested is found to be in conformity with the specified standards and is also compatible with test standards of JIS C 9335-2-24:2005 and JIS C 9335-2-21:2005 used in conjunction with JIS C 9335-1:2003.
- The requirements of standard Amendment A1:2004 + A2:2008 of IEC 60335-2-21:2002 and Amendment A1:2004 + A2:2006 of IEC 60335-1:2001 were not considered.
- This test report is used for reference for the application for Japan PSE declaration of conformity according to Ordinance 2 procedure of Japan Electrical Appliance and Material Law.
- Attachment1: National differences for Japan -> 10 pages
- Attachment2: Comparison table between JIS C 9335-1:2003 and IEC 60335-1:2001-> 10 pages
- Attachment3: Comparison table between JIS C 9335-2-21:2005 and IEC 60335-2-21:2002-> 5 pages
- Attachment4: Comparison table between JIS C 9335-2-24:2005 and IEC 60335-2-24:2002-> 7 pages
- Attachment5: Circuit diagram-> 2 pages
- Attachment6: Photos-> 8 pages

Summary of compliance with National Differences:

- The item tested is found to be in conformity with the specified standards and is also compatible with test standards JIS C 9335-2-21:2005 and JIS C 9335-2-24:2005 used in conjunction with JIS C 9335-1:2003.

Copy of marking plate:

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| ▲ HYUNDAI | PS E |
| Hot & Cold Water Purifier System | ▲ 注意 ▲ 感電の危険があります。 絶対開けないで下さい。 WARNING : SHOCK HAZARD-DO NOT OPEN. |
| MODEL NO. W2-360 | |
| POWER SOURCE. 100V~ 50/60 Hz 2.0A(cold)/130W 4.0A(hot) /400W | |
| REFRIGERANT & AMOUNT R-134a / 55g | |
| RATED WATER PRESSURE : 147.1~490.3kpa | |
| CLIMATE CLASS N IPX1 | |
| MANUFACTURER: ▲ HYUNDAI Wacor Tec. Co., Ltd. | |
| <small>FOR HOUSEHOLD USE</small> MADE IN KOREA | |
| CAPACITY OF WATER STORAGE TANK | |
| PURIFIER WATER | 4L(RESERVIOR) |
| COLD WATER | 4L |
| HOT WATER | 3L |

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| ▲ HYUNDAI | PS E |
| Hot & Cold Water Purifier System | ▲ 注意 ▲ 感電の危険があります。 絶対開けないで下さい。 WARNING : SHOCK HAZARD-DO NOT OPEN. |
| MODEL NO. W2-360H | |
| POWER SOURCE. 100V~ 50/60 Hz 2.0A(cold)/130W 4.0A(hot) /400W | |
| REFRIGERANT & AMOUNT R-134a / 35g | |
| RATED WATER PRESSURE : 147.1~490.3kpa | |
| CLIMATE CLASS N IPX1 | |
| MANUFACTURER: ▲ HYUNDAI Wacor Tec. Co., Ltd. | |
| <small>FOR HOUSEHOLD USE</small> MADE IN KOREA | |
| CAPACITY OF WATER STORAGE TANK | |
| PURIFIER WATER | 4L(RESERVIOR) |
| COLD WATER | 3L |
| HOT WATER | 3L |

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|---|---|
| ▲ HYUNDAI | PS E |
| Hot & Cold Water Purifier System | ▲ 注意 ▲ 感電の危険があります。 絶対開けないで下さい。 WARNING : SHOCK HAZARD-DO NOT OPEN. |
| MODEL NO. W2-340 | |
| POWER SOURCE. 100V~ 50/60 Hz 2.0A(cold)/130W 4.0A(hot) /400W | |
| REFRIGERANT & AMOUNT R-134a / 55g | |
| RATED WATER PRESSURE : 147.1~490.3kpa | |
| CLIMATE CLASS N IPX1 | |
| MANUFACTURER: ▲ HYUNDAI Wacor Tec. Co., Ltd. | |
| <small>FOR HOUSEHOLD USE</small> MADE IN KOREA | |
| CAPACITY OF WATER STORAGE TANK | |
| PURIFIER WATER | 4L(RESERVIOR) |
| COLD WATER | 4L |
| HOT WATER | 3L |



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| Test item particulars : | | |
| Classification of installation and use..... : | Class I appliance, Floor-standing and table-top or counter-top | |
| Supply Connection..... : | Power supply cord with plug | |
| 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 | 2009-11-11 | |
| Date (s) of performance of tests..... | 2009-11-12 to 2010-03-30 | |
| General remarks: | | |
| <p>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.</p> | | |
| General product information: | | |
| <ul style="list-style-type: none"> - Model W2-360H is hot and cold water purifier system having a compressor and a sheathed heater and it is tested as the represented model for counter-top or table-top type. - Model W2-360 is a floor standing type hot and cold water purifier system it is tested as the represented model for floor standing type. - Model difference and external dimension. <ol style="list-style-type: none"> 1) Model W2-360 and W2-340 are similar with the tested model W2-360H except for the small difference of external dimension of enclosure and the cosmetic design. 3) The same critical components including a compressor and a sheathed heater are provided for the each model. 4) Water purifying filter system for floor standing type is located in the lower side of enclosure and for counter-top or table-top type is placed in the left side of enclosure | | |
| Model No. | Dimension (mm) | Installation and use |
| W2-360 | 360(W) x 420(D) x 1240(H) | Floor standing type |
| W2-340 | 340(W) x 420(D) x 1240(H) | Floor standing type |
| W2-360H | 360(W) x 420(D) x 520(H) | Counter-top or table top type |

