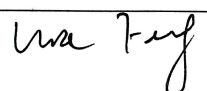

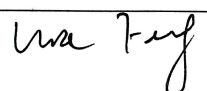

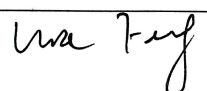

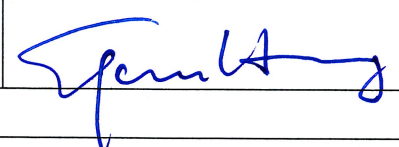
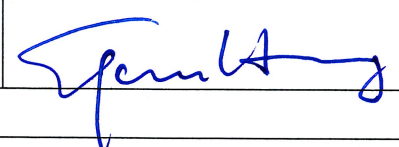
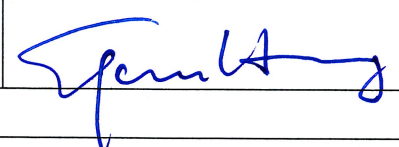




TEST REPORT IEC 60335-2-15 Safety of household and similar electrical appliances Part 2: Particular requirements for appliances for heating liquids	
Report Number	EFSH15071997-IE-03-L01-A1
Date of issue	2015-10-30, Amendment 1: 2016-06-20
Total number of pages	20 pages
Applicant's name	Ningbo Yuanda Electrical Appliances Co.,Ltd.
Address	No.88,Daqiao Road,Henghe,Cixi,Zhejiang,China
Test specification:	
Standard	<input checked="" type="checkbox"/> EN 60335-2-15:2002 + A1:2005 + A2:2008 + A11:2012 <input checked="" type="checkbox"/> EN 60335-1:2012+A11:2014 <input checked="" type="checkbox"/> EN 62233:2008
Test procedure	GS approval
Non-standard test method:	N/A
Test Report Form No.	IEC60335_2_15I
Test Report Form(s)	IMQ S.p.A.
Originator	
Master TRF	Dated 2012-03
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<small>If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.</small>	
Test item description	Egg Boiler
Trade Mark	Langwei
Manufacturer	Same as the applicant
Model/Type reference	YW-9915,YW-9915B,YW-9915C,YW-9915D,YW-9915N
Ratings	220-240V~, 50Hz, 350W, Class I for all models

Testing procedure and testing location:						
<input type="checkbox"/>	CB Testing Laboratory:	Eurofins Product Testing Service (Shanghai) Co., Ltd.				
Testing location/ address.....:		No. 395 West Jiangchang Road, Jing'an District, Shanghai, China				
<input type="checkbox"/>	Associated CB Laboratory:	N/A				
Testing location/ address.....:		N/A				
Tested by (name + signature)		<table border="1"> <tr> <td>Wise Feng (Project Engineer)</td> <td></td> </tr> <tr> <td>Jack Gan (Project Engineer)</td> <td></td> </tr> </table>	Wise Feng (Project Engineer)		Jack Gan (Project Engineer)	
Wise Feng (Project Engineer)						
Jack Gan (Project Engineer)						
Approved by (name + signature) ..		<table border="1"> <tr> <td>Squall Huang (Project Supervisor)</td> <td></td> </tr> </table>	Squall Huang (Project Supervisor)			
Squall Huang (Project Supervisor)						
<input type="checkbox"/>	Testing procedure: TMP					
Testing location/ address.....:		N/A				
Tested by (name + signature)		N/A				
Approved by (name + signature) ..		N/A				
<input type="checkbox"/>	Testing procedure: WMT					
Testing location/ address.....:		N/A				
Tested by (name + signature)		N/A				
Witnessed by (name + signature) ..		N/A				
Approved by (name + signature) ..		N/A				
<input type="checkbox"/>	Testing procedure: SMT					
Testing location/ address.....:		N/A				
Tested by (name + signature)		N/A				
Approved by (name + signature) ..		N/A				
Supervised by (name + signature):		N/A				
<input type="checkbox"/>	Testing procedure: RMT					
Testing location/ address.....:		N/A				
Tested by (name + signature)		N/A				
Approved by (name + signature) ..		N/A				
Supervised by (name + signature):		N/A				

List of Attachments (including a total number of pages in each attachment):

Photo document: 3 pages(Separate file)

Constructional data form (CDF): 4 pages(Separate file)

Summary of testing:

From the result of our inspection and tests on the submitted samples, we conclude they comply with the requirements of the standards.

Tests performed (name of test and test clause):

- CI.7 Marking and instruction
- CI.8 Protection against access to live parts
- CI.10 Power input and current
- CI.11 Heating
- CI.13 Leakage current and electric strength at operating temperature
- CI.15 Moisture resistance
- CI.16 Leakage current and electric strength
- CI.19 Abnormal operation
- CI.20 Stability and mechanical hazards
- CI.21 Mechanical strength
- CI.22 Construction
- CI.23 Internal wiring
- CI.24 Components
- CI.25 Supply connection and external flexible cords
- CI.26 Terminals for external conductors
- CI.27 Provision for earthing
- CI.28 Screws and connections
- CI.29 Clearances, creepage distances and solid insulation
- CI.30 Resistance to heat and fire
- CI.31 Resistance to rusting
- CI.32 Radiation, toxicity and similar hazards

Testing location:

Eurofins Product Testing Service (Shanghai) Co., Ltd.
No. 395 West Jiangchang Road, Jing'an District, Shanghai, China

Summary of compliance with National Differences
Germany and European Group Differences

Copy of marking plate: (Representative, may differ with the model number)

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBS that own these marks.



Test item particulars	
Classification of installation and use	Portable appliance for household indoor use only
Supply Connection	Type Y
.....	
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	2016-05-25
Date (s) of performance of tests	2016-05-26 to 2016-06-17
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.</p> <p>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator. Determination of the test result includes consideration of measurement uncertainty from the test equipment and methods.</p> <p>The related applicable CTL/OSM decisions have been considered and the requirements found fulfilled. For GS approval, EK1 601-15e Rev1 was considered.</p>	
Manufacturer's Declaration per sub-clause 6.2.5 of IEC60335-2-15:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)	Same as the applicant

General product information:

The product covered in this report is egg boiler for household and indoor use. They incorporate thermostat and thermal link to safeguard themselves.

YW-9915, YW-9915B, YW-9915C, YW-9915D are the same except different model name.

YW-9915N is same as other models except that YW-9915N has a control to control the heating element, other models don't have such switch.

After review,

YW-9915N was selected to do all the tests. YW-9915 was selected to do tests of Cl.11 for lamp cover.

Amendment 1:

The original test report ref. No. EFSH15071997-IE-03-L01, dated on 2015-10-30, was modified on 2016-06-20 to include the following changes and/or additions:

1. Modify the bottom support material of YW-9915B and YW-9915C from plastic to stainless steel.
2. YW-9915C and YW-9915N are identical except for the different material of the bottom support.
3. Add accessories for all models

After review, YW-9915B and YW-9915C were subjected to tests of Cl.11, Cl.27 and Cl.29. The most unfavourable results were recorded.

This report is only valid in conjunction with report EFSH15071997-IE-03-L01.

IEC 60335-2-15			
Clause	Requirement - Test	Result - Remark	Verdict
11.8	Temperature rises monitored continuously and not exceeding the values in table 3 :	(see appended table)	P
	When an appliance connector incorporates a thermostat, the temperature rise limit for the pins of the inlet does not apply (IEC 60335-2-15:2002)		N/A
	The temperature rise limits of motors, transformers, components of electronic circuit and parts directly influenced by them may be exceeded when the appliance is operated at 1,15 times rated power input (IEC 60335-2-15:2002)		N/A
	If the temperature rise of a motor winding exceeds the value of table 3, or		N/A
	if there is doubt with regard to classification of insulation,		N/A
	tests of Annex C are carried out		N/A
	Sealing compound does not flow out		P
	Protective devices do not operate, except		P
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4		N/A
27	PROVISION FOR EARTHING		--
27.1	Accessible metal parts of Class 0I and I appliances permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet		P
	Earthing terminals and earthing contacts not connected to the neutral terminal		P
	Class 0, II and III appliances have no provision for earthing		N/A
	Safety extra-low voltage circuits not earthed, unless		N/A
	protective extra-low voltage circuits		N/A
27.2	Clamping means of earthing terminals adequately secured against accidental loosening		P
	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and		N/A
	do not provide earthing continuity between different parts of the appliance, and		N/A
	conductors cannot be loosened without the aid of a tool		N/A

IEC 60335-2-15			
Clause	Requirement - Test	Result - Remark	Verdict
27.3	For a detachable part having an earth connection and being plugged into another part of the appliance, the earth connection is made before and separated after current-carrying connections when removing the part		N/A
	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage		P
27.4	No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal		P
	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion		P
	If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm		P
	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure		P
	In the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloys, precautions taken to avoid risk of corrosion		P
27.5	Low resistance of connection between earthing terminal and earthed metal parts		P
	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance		N/A
	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω).....:	Max. 0,01Ω	P
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances.		N/A
	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit		N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOLID INSULATION		--
	Clearances, creepage distances and solid insulation withstand electrical stress		P
	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), Annex J applies		N/A

IEC 60335-2-15			
Clause	Requirement - Test	Result - Remark	Verdict
	The microenvironment is pollution degree 1 under type 1 protection		N/A
	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3		N/A
	These values apply to functional, basic, supplementary and reinforced insulation.....:		N/A
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless	(see appended table)	P
	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14		N/A
	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500V and above are increased by 0,5 mm and the impulse voltage test is not applicable		N/A
	Impulse voltage test is not applicable:		--
	- when the microenvironment is pollution degree 3, or		N/A
	- for basic insulation of class 0 and class 01 appliances		N/A
	Appliances are in overvoltage category II		P
	A force of 2 N is applied to bare conductors, other than heating elements		P
	A force of 30 N is applied to accessible surfaces		P
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		P
	The values of table 16 or the impulse voltage test of clause 14 are applicable.....:	(see appended table)	N/A
	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1	End of heating element	P
	Lacquered conductors of windings considered to be bare conductors		N/A
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16:	(see appended table)	P

IEC 60335-2-15			
Clause	Requirement - Test	Result - Remark	Verdict
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage	(see appended table)	P
	For double insulation, with no intermediate conductive part between basic and supplementary insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation		P
29.1.4	Clearances for functional insulation are the largest values determined from:		--
	- table 16 based on the rated impulse voltage	(see appended table)	P
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless		N/A
	the microenvironment is pollution degree 3, or		N/A
	the distances can be affected by wear, distortion, movement of the parts or during assembly		N/A
	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited		N/A
	Lacquered conductors of windings considered to be bare conductors		N/A
	However, clearances at crossover points are not measured		N/A
	Clearance between surfaces of PTC heating elements may be reduced to 1mm		N/A
29.1.5	Appliances having higher working voltages than rated voltage, clearances for basic insulation are the largest values determined from:		--
	- table 16 based on the rated impulse voltage		N/A
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1 or Clause 4 of IEC 60664-4, the clearances of supplementary insulation are not less than those specified for basic insulation		N/A

IEC 60335-2-15			
Clause	Requirement - Test	Result - Remark	Verdict
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160% of the withstand voltage required for basic insulation		N/A
	If clearances for basic insulation are selected from Clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation		N/A
	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in table 16, but using the next lower step for rated impulse voltage		N/A
	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in table 15		N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree	(see appended table)	P
	Pollution degree 2 applies, unless		P
	- precautions taken to protect the insulation; pollution degree 1	End of the heating element	P
	- insulation subjected to conductive pollution; pollution degree 3		N/A
	The microenvironment is pollution degree 3 if the insulation can be polluted by condensation from steam produced during normal use of the appliance (IEC 60335-2-15:2002)		N/A
	A force of 2 N is applied to bare conductors, other than heating elements		P
	A force of 30 N is applied to accessible surfaces		P
	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system		P
29.2.1	Creepage distances of basic insulation not less than specified in table 17.....	(see appended table)	P
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 17.....		N/A

IEC 60335-2-15			
Clause	Requirement - Test	Result - Remark	Verdict
	Except for pollution degree 1, corresponding creepage distance not less than the minimum specified for the clearance in table 16, if the clearance has been checked according to the test of clause 14		N/A
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or	(see appended table)	P
	Table 2 of IEC 60664-4, as applicable		N/A
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or	(see appended table)	P
	Table 2 of IEC 60664-4, as applicable		N/A
29.2.4	Creepage distances of functional insulation not less than specified in table 18.....	(see appended table)	P
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 18.....		N/A
	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited		N/A
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses		P
	Compliance checked:		--
	- by measurement, in accordance with 29.3.1, or		P
	- by an electric strength test in accordance with 29.3.2, or		N/A
	- by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3, and		N/A
	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or		N/A
	- as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage having a frequency exceeding 30 kHz		N/A
29.3.1	Supplementary insulation have a thickness of at least 1 mm		P
	Reinforced insulation have a thickness of at least 2 mm		P

IEC 60335-2-15			
Clause	Requirement - Test	Result - Remark	Verdict
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation		N/A
	Supplementary insulation consist of at least 2 layers		N/A
	Reinforced insulation consist of at least 3 layers		N/A
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by		N/A
	the electric strength test of 16.3		N/A
	If the temperature rise during the tests of clause 19 does not exceed the value specified in table 3, the test of IEC 60068-2-2 is not carried out		N/A
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19.....:		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
11.8	TABLE: Heating test, thermocouples(YW-9915B)		P
	Test voltage (V)	247	—
	Ambient (°C)	23	—
Thermocouple locations		dT (K)	dT (K)
Bottom enclosure		41	--
Stainless steel lid		76	--
Handle		57	60

11.8	TABLE: Heating test, thermocouples(YW-9915C)		P
	Test voltage (V)	247	—
	Ambient (°C)	23	—
Thermocouple locations		dT (K)	dT (K)
Bottom enclosure		40	--
Stainless steel lid		72	--
Handle		55	60
Switch button		32	60
Switch ambient		35	60(T85)

24.1	TABLE: Components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
The test report is only valid in conjunction with the current valid version of the Constructional Data Form (EFSH15071997-IE-03-CDF).						
¹⁾ An asterisk indicates a mark which assures the agreed level of surveillance						

29.1	TABLE: Clearances						P
	Overvoltage category			II		—	
		Type of insulation:				Verdict / Remark	
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)		
330	0,2* / 0,5 / 0,8**					N/A	
500	0,2* / 0,5 / 0,8**					N/A	
800	0,2* / 0,5 / 0,8**					N/A	
1 500	0,5 / 0,8** / 1,0***					N/A	
2 500	<u>1,5</u> / 2,0***	1,9	2,1		2,4	P	
4 000	<u>3,0</u> / 3,5***			3,9		P	
6 000	5,5 / 6,0***					N/A	

IEC 60335-2-15						
Clause	Requirement + Test				Result - Remark	Verdict
8 000	8,0 / 8,5***					N/A
10 000	11,0 / 11,5***					N/A
*) For tracks on printed circuit boards if pollution degree 1 and 2 **) For pollution degree 3 ***) If the construction is affected by wear, distortion, movement of the parts or during assembly						

29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation										P
Working voltage (V)	Creepage distance (mm)							Type of insulation			Verdict
	Pollution degree										
	1	2			3						
		Material group			Material group						
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*)	B**)	S**)	R**)	Verdict
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9		—	—	N/A
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	—		—	N/A
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8	—	—		N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4		—	—	N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	—		—	N/A
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8	—	—		N/A
250	<u>0,56</u>	1,25	1,8	<u>2,5</u>	3,2	3,6	4,0	1,2/ 2,9	—	—	P
250	0,56	1,25	1,8	<u>2,5</u>	3,2	3,6	4,0	—	2,9	—	P
250	1,12	2,5	3,6	<u>5,0</u>	6,4	7,2	8,0	—	—	6,1	P
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3		—	—	N/A
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	—		—	N/A
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	—	—		N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		—	—	N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	—		—	N/A
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	—	—		N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		—	—	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	—		—	N/A
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	—	—		N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		—	—	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	—		—	N/A

IEC 60335-2-15											
Clause	Requirement + Test							Result - Remark			Verdict
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	—	—		N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		—	—	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	—		—	N/A
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	—	—		N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		—	—	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	—		—	N/A
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	—	—		N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		—	—	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	—		—	N/A
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	—	—		N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0		—	—	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	—		—	N/A
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	—	—		N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		—	—	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	—		—	N/A
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	—	—		N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0		—	—	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	—		—	N/A
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	—	—		N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		—	—	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	—		—	N/A
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	—	—		N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		—	—	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	—		—	N/A
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	—	—		N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		—	—	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	—		—	N/A
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	—	—		N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		—	—	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	—		—	N/A
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	—	—		N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		—	—	N/A

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Clause	Requirement + Test								Result - Remark		Verdict
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	—		—	N/A
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	—	—		N/A
*) Material group IIIb is allowed if the working voltage does not exceed 50 V											
**) B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation											

29.2	TABLE: Creepage distances, functional insulation								P
Working voltage (V)	Creepage distance (mm)							Verdict / Remark	
	Pollution degree								
	1	2			3				
		Material group			Material group				
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*)		
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N/A	
50	0,16	0,56	0,8	1,0	1,4	1,6	1,8	N/A	
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A	
250	0,42	1,0	1,4	2,0	2,5	2,8	3,2	P(2,9)	
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	N/A	
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A	
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A	
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A	
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A	
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A	
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A	
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A	
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A	
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A	
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A	
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A	
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A	
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A	
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A	
Supplementary information:									
*) Material group IIIb is allowed if the working voltage does not exceed 50 V									

**ATTACHMENT TO TEST REPORT IEC 60335-2-15
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

Household and similar electrical appliances – Safety –

Part 2-15: Particular requirements for appliances
for heating liquids

Differences according to: EN 60335-2-15:2002 + A1:2005 + A2:2008 + A11:2012 used in conjunction with EN 60335-1:2012
EN 50366:2003 + A1:2006 or
EN 62233:2008

Attachment Form No.: EU_GD_IEC60335_2_15I

Attachment Originator: IMQ S.p.A.

Master Attachment: 2012-10

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Annex EN 62233:2008

Clause	Requirement + Test	Result - Remark	Verdict
EMF- ELECTROMAGNETICS FIELDS			
	The tested product also complies with the requirements of EN 62233:2008		--
	Limit100%	Measured<10%	P

IEC60335_2_15I - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

CENELEC COMMON MODIFICATIONS			
11.8	In Table 3 the row "External enclosure of motor-operated appliances, except handles held in normal use" replaced by Table Z101 (EN60335-2-15, A11:10)		P
	Table Z101 added (EN60335-2-15, A11:10)		P
11.Z101	For coffee makers, milk heaters, egg boilers, cooking pans, slow cookers, steam cookers, pressure cookers, wash boilers, rice cookers, glue pots with a water jacket, livestock feed boilers, sterilizers, kettles and other appliances for boiling water, having a rated capacity not exceeding 10 l, the temperature rise limits in Table Z101 apply (EN60335-2-15, A11:10)		P
	The appliance is supplied at rated voltage and operated under normal operation		P
	Temperatures rises are not measured on:		--
	<ul style="list-style-type: none"> • the lids 		P
	<ul style="list-style-type: none"> • surfaces within 25 mm from <ul style="list-style-type: none"> - the edge of the lid - the ventilation openings - the edge of the hot functional surface 		P
	<ul style="list-style-type: none"> • enclosure at a distance within 25 mm from the heating element 		P
	<ul style="list-style-type: none"> • underside surfaces that are not accessible with probe 41 of EN 61032 		P

11.Z101	TABLE: Temperature rise limits for surfaces (YW-9915B)	
	Ambient (°C):	22
	Test voltage (V):	240
		dT (K)
		Max. dT (K)
Outer surface of metal enclosure(25mm away from hot functional surface)	34	45

11.Z101	TABLE: Temperature rise limits for surfaces (YW-9915C)	
	Ambient (°C):	22
	Test voltage (V):	240
	dT (K)	Max. dT (K)
Outer surface of metal enclosure(25mm away from hot functional surface)	32	45