Test Report issued under the responsibility of:

intertek
Total Quality. Assured.

TEST REPORT
IEC 60335-2-15
Safety of household and similar electrical appliances
Part 2: Particular requirements for appliances for heating liquids

Report Number. ..... :	170501498SHA-001
Date of issue ..... :	2017-05-24; Amendment 11: 2023-04-17
Total number of pages	62 pages of test report (include 11 pages of photograph)
Applicant's name ..... :	
Address ..... :	
Test specification:	
Standard ..... :	EN 60335-2-15:2016+A11:2018+A1:2021+A2:2021+A12:2021 used in conjunction with EN 60335-1:2012+A11:2014+A13:2017+ A1:2019+A2:2019+ A14:2019+A15:2021 and EN 62233:2008
Test procedure..... :	--
Non-standard test method..... :	N/A
Test Report Form No. ..... :	IEC60335_2_15J
Test Report Form(s) Originator.... :	IMQ S.p.A.
Master TRF ..... :	Dated 2013-06

General disclaimer:

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. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description .....:	Water Kettle
Trade Mark .....:	-
Manufacturer.....:	Same as applicant
Model/Type reference.....:	PK-G916, PK-G916S, PK-G918, PK-G928, PK-G928B, PK-G917, PK-G915, PK-G917-3K, PK-G928-3K, PK-G919, PK-G998-S, PK-G998-O, PK-G997, PK-G916S-D, PK-G956, PK-G1068, PK-G958, PK-G958B, PK-G988, PK-G988B
Ratings.....:	220-240V~, 50/60Hz, Class I 1850-2200W for PK-G916, PK-G916S, PK-G918, PK-G928, PK-G928B, PK-G917, PK-G915, PK-G919, PK-G998-S, PK-G998-O, PK-G997 PK-G916S-D, PK-G956, PK-G958, PK-G958B, PK-G988, PK-G988B; 2520-3000W for PK-G917-3K, PK-G928-3K; 1350-1650W for PK-G1068

Testing procedure and testing location:			
☒	**Testing Laboratory:**	Intertek Testing Shanghai Limited	
Testing location/ address ..... :		Building No. 86, 1198 Qinzhou Road (North), Shanghai 200233, China	
☐	**Associated CB Testing Laboratory:**	N/A	
Testing location/ address ..... :			
Tested by (name + signature)..... :		Andy Huo	
Approved by (name + signature) ..... :		Chain Zhang	
☐	**Testing procedure: TMP/CTF Stage 1:**	N/A	
Testing location/ address ..... :			
Tested by (name + signature)..... :		N/A	
Approved by (name + signature) ..... :		N/A	
☐	**Testing procedure: WMT/CTF Stage 2:**	N/A	
Testing location/ address ..... :			
Tested by (name + signature)..... :		N/A	
Witnessed by (name + signature) ..... :		N/A	
Approved by (name + signature) ..... :		N/A	
☐	**Testing procedure: SMT/CTF Stage 3 or 4:**	N/A	
Testing location/ address ..... :			
Tested by (name + signature)..... :		N/A	
Witnessed 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):

None

Summary of testing:

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

Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty

Tests performed (name of test and test clause):	**Testing location:**
Refer to description for Amendment 11 (page 5) for details.	**Same as previous page.**

Summary of compliance with National Differences:

List of countries addressed: National differences for Germany, U.K, Italy have been checked

☒ **The product fulfils the requirements of** EN 60335-2-15:2016+A11:2018+A1:2021+A2:2021 +A12:2021 used in conjunction with EN 60335-1:2012+A11:2014+A13:2017+ A1:2019+A2:2019+ A14:2019+A15:2021 and EN 62233:2008

Copy of marking plate (representative):

for kettle and stand

PK-G918

220-240V~ 50/60Hz 1850-2200W

Note: When the equipment is vended to EU, then name and address of the importer or authorized representative within the EEA shall be added on the equipment.

Test item particulars .....:	
Classification of installation and use .....:	Class I, household and similar application
Supply Connection.....:	Cord connection, type Y attachment
.....:	
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 ..... :	2023-03-06
Date (s) of performance of tests..... :	2023-03-07 to 2023-04-10

General remarks:

"(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.

The (EU) 2015/1143 has been considered, the appliance is not intended to heat milk, coffee, or similar and there is no overflow risk during normal operation.

PAH test according to AfPS GS 2019:01 PAK is considered and passed, please refer to PAH test report 200802930SHA-001-PAH, 200802930SHA-001-PAH+A1, 200802930SHA-001-PAH+A2 for detail.

No obvious or conspicuous PAK/PAH issues was observed.
This test report should be read in conjunction with the Construction Data Form (CDF).

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

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 .....:	☐ **Yes** ☒ **Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies).....:

General product information:
The kettles covered in this report are for household and similar application.
The appliance incorporates temperature limiter and temperature controller (two self-resetting thermal cut-out) to safeguard the appliances.
All the models have the similar construction and critical component, some characteristic as following:

Model	Max level	Handle shape	Lid	Bottom decoration
PK-G915	2,0L	roundness	plastic	metal
PK-G916	1,7L	roundness	plastic	plastic
PK-G916S	1,7L	roundness	metal	metal
PK-G916S-D	1,7L	roundness	metal	metal
PK-G917	1,7L	squareness	plastic	metal
PK-G917-3K	1,7L	squareness	plastic	metal
PK-G918	1,7L	roundness	plastic	plastic
PK-G919	1,7L	roundness	metal	metal
PK-G928	2,0L	squareness	metal	metal
PK-G928-3K	2,0L	squareness	metal	metal
PK-G928B	2,0L	squareness	metal	metal
PK-G956	2,0L	squareness	plastic	metal
PK-G997	1,7	roundness	metal	metal
PK-G998-S	1,7L	roundness	metal	metal
PK-G998-O	1,7L	roundness	metal	metal
PK-G1068	1,0L	squareness	glass	plastic
PK-G958	1,7L	roundness	plastic	plastic
PK-G958B	1,7L	roundness	plastic	plastic
PK-G988	2,0L	roundness	metal	metal
PK-G988B	2,0L	roundness	metal	plastic

PK-G916 and PK-G916S only different at that PK-G916S has metal decoration at lid and base support.

PK-G917 and PK-G916S only different at the appearance of lid and base part.

PK-G916S and PK-G916S-D are same except the different color of indicate light.

PK-G916 and PK-G918 only different at the appearance of lid and base part.

PK-G928 and PK-G928B only different at the appearance of lid.

PK-G917-3K and PK-G917 are same except different power input because of different heating element, so do PK-G928-3K and PK-G928.

PK-G919 and PK-G915 only different at the appearance of lid, handle and container size.

PK-G997 and PK-G917 only different at the appearance of lid, handle.

PK-G998-S, PK-G998-O are same except the appearance of handle.

PK-G956, PK-G958, PK-G958B are same except the appearance of lid.

PK-G988 and PK-G988B only different at the base support.

Amendment 11:
The original test report ref. 170501498SHA-001 issued on 2017-05-24, with amendment 1 dated on 2017-08-14, with amendment 2 dated on 2017-08-28, with amendment 3 dated on 2017-12-25, with amendment 4 dated on 2018-07-06, with amendment 5 dated on 2019-03-27, with amendment 6 dated on 2019-06-03, with amendment 7 dated 2019-09-09, with amendment 8 dated 2019-10-14, with amendment 9 dated on 2020-09-22, with amendment 10 dated on 2021-03-22, was modified on 2023-04-17 to include the following changes and additions:
1. Added 2 new models PK-G988, PK-G988B.
2. Added alternative internal wire for all models.
3. Updated standard “EN 60335-1” from “EN 60335-1: 2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019” to “EN 60335-1: 2012+A11:2014+A13:2017+A1:2019+A2:2019+ A14:2019+A15:2021”
4. Updated standard “EN 60335-2-15” from “EN 60335-2-15:2016+A11:2018” to “EN 60335-2-15:2016+A11:2018+ A1:2021+A2:2021+A12:2021”
5. Updated PAH report and table 24.1.

After review, selected PK-G988B as representatives models tested with Strix (U9201), Fada (KSD-889) and Henglai (KSD185-B3) for all tests, PK-G988 was also tested for relevant tests if mentioned, and the most unfavourable results were recorded in this report.

Clauses Concerned: Cl.7, Cl.8, Cl.10, Cl.11, Cl.13, Cl.15, Cl.16, Cl.19, Cl.21, Cl.22, Cl.23, Cl.25, Cl.27 and new standard need to be concerned. Other clause which not mentioned in the report was referred to original test report.

Table concerned: 10.1, 11.8, 11.Z101, 13.2, 13.3, 16.2, 16.3, 19.13, 24.1, 29.1, 29.2, 30.2.

The temperature of Cl.30 was not higher than the original report, so Cl. 30.1 was not concerned.

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict

7	MARKING AND INSTRUCTIONS		
7.1	Rated voltage or voltage range (V) .... :	Refer to marking	P
	Symbol for nature of supply, or .... :	Refer to marking	P
	Rated frequency (Hz) .... :	Refer to marking	P
	Rated power input (W), or .... :	Refer to marking	P
	Rated current (A) .... :		N/A
	Manufacturer's or responsible vendor's name, trademark or identification mark..... ..... :	Refer to marking	P
	Model or type reference .... :	Refer to marking	P
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0..... ..... :		N/A
	Symbol IEC 60417-5180, for class III appliances, unless		N/A
	the appliance is operated by batteries only		N/A
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth		N/A
	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage		N/A
	Appliances intended to be partially immersed in water for cleaning, marked with the maximum level of immersion, (IEC 60335-2-15)		N/A
	And with the substance of the following: "Do not immerse beyond this level" (IEC 60335-2-15)		N/A
	For kettles: level mark or other means which indicate the rated capacity (IEC 60335-2-15)		P
	Unless they cannot be filled beyond their rated capacity (IEC 60335-2-15)		N/A
	Indication visible whit kettle in filling position (IEC 60335-2-15)		P
	Reference to the level mark on the outside of the kettle, if the level is not self-evident (IEC 60335-2-15)		P
	Marking on the appliance of the closed position of the lid of pressure cooker, if it is not obvious (IEC 60335-2-15)		N/A
	Identification mark and model or type reference of stand for cordless kettles (IEC 60335-2-15)		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Soy milk makers: level mark or other means to indicate when they are filled to rated capacity (IEC 60335-2-15)		N/A
	Unless they cannot be filled beyond their rated capacity (IEC 60335-2-15)		N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	220-240V	P
	Different rated values marked with the values separated by an oblique stroke	50/60Hz	P
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless		P
	the power input or current are related to the arithmetic mean value of the rated voltage range		N/A
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		P
7.6	Correct symbols used		P
	Symbol for nature of supply placed next to rated voltage		P
	Symbol for class II appliances placed unlikely to be confused with other marking		N/A
	Units of physical quantities and their symbols according to international standardized system		P
7.8	Except for type Z attachment, terminals for connection to the supply mains indicated as follows:		
	- marking of terminals exclusively for the neutral conductor (letter N)		N/A
	- marking of protective earthing terminals (symbol IEC 60417-5019)		P
	- marking of functional earthing terminals (symbol IEC 60417-5018)		N/A
	- marking not placed on removable parts		P
7.9	Marking or placing of switches which may cause a hazard		P
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means .... :	use figures “0” and “1”	P
	This applies also to switches which are part of a control		P
	If figures are used, the off position indicated by the figure 0		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		P
7.12	Instructions for safe use provided		P
	Details concerning precautions during user maintenance		P
	The instructions state that:		
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction	Replaced by of EN60335-2-15/A11:2012	N/A
	- children being supervised not to play with the appliance	Replaced by of EN60335-2-15/A11:2012	N/A
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		N/A
	Instructions for class III appliances state that it must only be supplied at SELV, unless		N/A
	it is a battery-operated appliance, the battery being charged outside the appliance		N/A
	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated..... ..... :		N/A
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only		N/A
	The instructions for appliances include the substance of the following: (IEC 60335-2-15)		P
	This appliance is intended to be used in household and similar applications such as: (IEC 60335-2-15)		P
	- staff kitchen areas in shops, offices and other working environments;		P
	- farm houses;		P
	- by clients in hotels, motels and other residential type environments;		P
	- bed and breakfast type environments.		P
	If the manufacturer wants to limit the use of the appliance to less than the above, this is clearly stated in the instructions (IEC 60335-2-15)		N/A
	Appliance incorporating an appliance inlet and intended to be immersed for cleaning, instructions include the following : (IEC 60335-2-15)		

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	- the connector must be remove before cleaning		N/A
	- the appliance inlet must be dried before the appliance is used again		N/A
	The instructions for appliances normally cleaned after use and not intended to be immersed in water for cleaning, state that the appliance must not be immersed (IEC 60335-2-15)		P
	This requirement normally applies to coffee-makers, cooking pans, milk heaters, pressure cookers, steam cookers, slow cookers, soy milk makers and yoghurt makers (IEC 60335-2-15)		N/A
	The instructions for use for appliances intended to be used with a connector incorporating a thermostat, state that only the appropriate connector must be used (IEC 60335-2-15)		N/A
	Unless, kettles are constructed so that a hazard cannot arise from boiling water being ejected, the instructions for use include the following: (IEC 60335-2-15)		
	- if the kettle is overfilled, boiling water may be ejected		P
	The instructions for use for kettles filled through a lid aperture which is situated below the handle, include the substance of the following: (IEC 60335-2-15)		
	- WARNING: "Do not remove the lid while the water is boiling"		N/A
	- WARNING: "Position the lid so that steam is directed away from the handle"		N/A
	The caution statement is not required if the lid can only be closed so that steam is directed away from the handle (IEC 60335-2-15)		N/A
	The instructions for cordless appliances state that the appliance is only to be used with the stand provided (IEC 60335-2-15)		P
	If the appliance and stand of cordless appliances can be lifted together by gripping the handle of the appliance, the instructions include the substance of the following: (IEC 60335-2-15)		
	- CAUTION: Insure that the appliance is switched off before removing it from its stand.		N/A
	Instructions for feeding bottle heaters: (IEC 60335-2-15)		
	- state that the food should not be heated for too long a period		N/A
	- state how to check that the correct food temperature has not been exceeded		N/A
	Instructions for pressure cookers, other than dynamic pressure cookers: (IEC 60335-2-15)		

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	- state that the ducts in the pressure regulator allowing the escape of steam should be checked regularly to ensure that they are not blocked		N/A
	Instructions for pressure cookers: (IEC 60335-2-15)		
	- give details of how to open the container safely		N/A
	- and state that the container must not be opened until the pressure has decreased sufficiently		N/A
	The instructions for use for egg boilers provided with a pricking device contain the substance of the following : (IEC 60335-2-15)		
	- CAUTION: "Avoid injuries from the egg pricking device"		N/A
	Instructions for espresso coffee-makers incorporating a pressurized reservoir filled by the user: (IEC 60335-2-15)		
	- contain information for the safe refilling of the water reservoir and the substance of the following:		N/A
	- WARNING: The filling aperture must not be opened during use		N/A
	The instructions for all appliances include: (IEC 60335-2-15)		
	- a warning to avoid spillage on the connector		N/A
	- details on how to clean the surfaces in contact with food		N/A
	- a warning of potential injury from misuse		N/A
	- a statement that the heating element surface is subject to residual heat after use		N/A
	The instructions for soy milk makers also include a statement that care shall be taken when handling the sharp cutting blades, emptying the container and during cleaning (IEC 60335-2-15)		N/A
	The instruction for soy milk makers incorporating a switch necessary for compliance with 22.40 include the substance of the following: (IEC 60335-2-15)		
	- Switch off the appliance and disconnect from supply before changing accessories or approaching parts that move in use		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
	Replacement cord instructions, type Y attachment		P
	Replacement cord instructions, type Z attachment		N/A
7.13	Instructions and other texts in an official language	English and German	P
7.14	Marking clearly legible and durable, rubbing test as specified		P
7.15	Markings on a main part		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Marking clearly discernible from the outside, if necessary after removal of a cover		P
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		N/A
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		P
	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180		N/A
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		
8.1	Adequate protection against accidental contact with live parts		P
8.1.1	Requirement applies for all positions, detachable parts removed		P
	Lamps behind a detachable cover not removed, if conditions met		N/A
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		N/A
	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts		P
	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts		P
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts		P
	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts		N/A
	See Note 101 (IEC 60335-2-15)		P
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Only possible to touch parts separated from live parts by double or reinforced insulation		P
10	POWER INPUT AND CURRENT		
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1 :	(see appended table)	P
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the power input is the arithmetic mean value		N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		P
	the rated power input is related to the arithmetic mean value		N/A
11	HEATING		
11.1	No excessive temperatures in normal use		P
11.2	The appliance is held, placed or fixed in position as described ..... :	Tested away from the walls of the test corner	P
	Portable appliances tested away from the walls of the test corner (IEC 60335-2-15)		P
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless		N/A
	the windings are non-uniform or it is difficult to make the necessary connections		N/A
	See Note 101 (IEC 60335-2-15)		N/A
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W) .... :	(see appended table)	P
	If the temperature rise limits are exceeded in appliances incorporating motors, transformers or electronic circuits and if the power input is lower than the rated power input, test repeated with the appliance supplied at 1,06 times rated voltage (IEC 60335-2-15)		N/A
11.7	Appliances operated for the duration specified in 11.7.101 to 11.7.106 (IEC 60335-2-15)		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
11.7.101	For kettles with temperature limiter: test terminated after second operation of temperature limiter (IEC 60335-2-15)		P
	For kettles with thermostat: test terminated 15 min after the water has attained 95 °C		N/A
	For other kettles: test terminated 5 min after the water has attained 95 °C		N/A
11.8	Temperature rises monitored continuously and not exceeding the values in table 3 ..... :	(see appended table)	P
	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
	When an appliance connector incorporates a thermostat, the temperature rise limit for the pins of the inlet does not apply (IEC 60335-2-15)		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)		N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE		
13.1	Leakage current not excessive and electric strength adequate		P
	Heating appliances operated at 1.15 times the rated power input (W) ..... :	(see appended table)	P
	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V) ..... :		N/A
	Protective impedance and radio interference filters disconnected before carrying out the tests		N/A
13.2	For class 0, class II and class III appliances, and class II constructions, leakage current measured by means of the circuit described in figure 4 of IEC 60990	Class II construction	P
	For class 0I and class I appliances, a low impedance ammeter may be used	Class I	P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Leakage current measurements..... :	(see appended table)	P
13.3	The appliance is disconnected from the supply		P
	Electric strength tests according to table 4 ..... :	(see appended table)	P
	No breakdown during the tests		P
15	MOISTURE RESISTANCE		
15.2	Spillage of liquid does not affect the electrical insulation		P
	Spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent		P
	Appliances with type X attachment fitted with a flexible cord as described		N/A
	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable		N/A
	The test is only carried out with the appliance connector in position (IEC 60335-2-15)		P
	For cordless appliances, the test with the appliance on the horizontal plane carried out with the appliance both on and off its stand (IEC 60335-2-15)		P
	For rice cookers, the test carried out with the rice container in place (IEC 60335-2-15)		N/A
	In case of doubt, spillage tests carried out with the appliance deviating from the normal position by an angle not exceeding 5° (IEC 60335-2-15)		P
	Detachable parts are removed		P
	Overfilling test with additional amount of the solution, over a period of 1 min (l) ..... :	0,3L	P
	The appliance withstands the electric strength test of 16.3		P
	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29		P
	Kettles that can be filled through the spout: additional overfilling test in conditions as specified (IEC 60335-2-15)		N/A
	For cordless kettles, the additional test carried out only with the cordless kettle off its stand, the kettle being replaced on its stand in order to carry out the electric strength test of 16.3 (IEC 60335-2-15)		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Coffee makers provided with a removable coffee pot: particular overfilling test in conditions as specified (IEC 60335-2-15)		N/A
	Steam sterilizers: particular overfilling test in conditions as specified (IEC 60335-2-15)		N/A
15.3	Appliances proof against humid conditions		P
	Checked by test Cab: Damp heat steady state in IEC 60068-2-78		P
	Detachable parts removed and subjected, if necessary, to the humidity test with the main part		N/A
	Humidity test for 48 h in a humidity cabinet	93%RH, 23℃	P
	Reassembly of those parts that may have been removed		N/A
	The appliance withstands the tests of clause 16		P
15.102	Connecting device of stands for cordless kettles not affected by water : particular electric strength test in conditions as specified (IEC 60335-2-15)		P
	Compliance is checked by the test in conditions as specified		P
	Stand withstanding the test of 16.3 with voltage reduced to 2500 V for reinforced insulation		P
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		
16.1	Leakage current not excessive and electric strength adequate		P
	Protective impedance disconnected from live parts before carrying out the tests		N/A
	Tests carried out at room temperature and not connected to the supply		P
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)..... :	254,4V	P
	Three-phase appliances: test voltage 1.06 times rated voltage divided by √3 (V)..... :		N/A
	Leakage current measurements..... :	(see appended table)	P
	Limit values doubled if:		
	- all controls have an off position in all poles, or		N/A
	- the appliance has no control other than a thermal cut-out, or		N/A
	- all thermostats, temperature limiters and energy regulators do not have an off position, or		N/A
	- the appliance has radio interference filters		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	With the radio interference filters disconnected, the leakage current do not exceed limits specified .... :	(see appended table)	N/A
16.3	Electric strength tests according to table 7 ..... :	(see appended table)	P
	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified..... :	(see appended table)	P
	No breakdown during the tests		P
19	ABNORMAL OPERATION		
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated		P
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe ..... :	(see appended table)	N/A
	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and		P
	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and		P
	if applicable, to the test of 19.5		P
	Appliances incorporating PTC heating elements are also subjected to the test of 19.6		N/A
	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable		N/A
	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable		N/A
	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11		N/A
	Appliances incorporating voltage selector switches subjected to the test of 19.15		N/A
	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or		N/A
	until steady conditions are established		P
	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample		N/A
	Kettles are not subjected to the test of 19.2 (IEC 60335-2-15)		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Kettles also subjected to the test of 19.101, unless the appliance incorporates a non-self-resetting thermal cut-out, in order to comply with 19.4 (IEC 60335-2-15)		P
	Kettles for which compliance with 19.101 relies on the operation of a non-self-resetting thermal cut-out are subjected to the test of 19.102 (IEC 60335-2-15)		P
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W) ..... :		N/A
	Kettles are operated empty at 1.15 times rated power input (IEC 60335-2-15)	Same as cl.11.4	P
	The test is carried out with the kettle filled with sufficient water to cover the heating element or if the heating element is not positioned inside the container, to a depth of 10 mm (IEC 60335-2-15)	Depth of 10 mm	P
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited		P
	Pressure cookers: (IEC 60335-2-15)		
	- all pressure regulating devices rendered inoperative; and		N/A
	- in other than dynamic pressure cookers, all protective devices that vent steam and intentionally weak parts that vent steam rendered inoperative; and		N/A
	- in dynamic pressure cookers, all protective devices, other than intentionally weak parts, that vent steam rendered inoperative		N/A
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath	Two thermal cut-out at each end of the heating element.	P
	The test repeated with reversed polarity and the other end of the heating element connected to the sheath		P
	The test is not carried out on appliances intended to be permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during the test of 19.4		N/A
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		P
	Temperature rises not exceeding the values shown in table 9 ..... :	(see appended table)	P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Compliance with clause 8 not impaired		P
	If the appliance can still be operated it complies with 20.2		N/A
	Insulation, other than of class III appliances or class III constructions that do not contain live parts, withstands the electric strength test of 16.3, the test voltage as specified in table 4:		
	- basic insulation (V) ..... :	1000V/1min	P
	- supplementary insulation (V)..... :	1750V/1min	P
	- reinforced insulation (V) ..... :	3000V/1min	P
	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage	480V	P
	The appliance does not undergo a dangerous malfunction, and		N/A
	no failure of protective electronic circuits, if the appliance is still operable		N/A
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:		
	- do not become operational, or		N/A
	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4		N/A
	If the appliance contains lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that:		
	- the lid or door does not move automatically to an open position when the interlock is released, and		N/A
	- the appliance does not start after the cycle in which the interlock was released		N/A
	During the test of 19.4, protective devices of pressure cookers other than dynamic pressure cookers operate before pressure has reached 350 kPa (IEC 60335-2-15)		N/A
	During the test of 19.4, protective devices or intentionally weak parts of dynamic pressure cookers operate before pressure has reached 250 kPa (IEC 60335-2-15)		N/A
	Temperature rise of windings of induction rice cookers not exceeding the values specified in 19.7 (IEC 60335-2-15)		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Induction rice cookers: electric strength test carried out immediately after switching off the appliance (IEC 60335-2-15)		N/A
19.101	Kettles operated empty at 0,85 times or 1,15 times rated power input, whichever is more unfavourable, with thermal cut-out that operates during the test of 19.4 short circuited (IEC 60335-2-15)	1,15 times is more unfavourable	P
	During the test, any flames keep within the enclosure of the kettle and supporting surface does not ignite	No flames	P
	After the test, live parts not be accessible		P
19.102	Kettles incorporating two self-resetting thermal cut-outs operated with one of the thermal cut-out short circuited, empty at 0.85 or 1.15 times rated power input, whichever is most unfavourable (IEC 60335-2-15)	1,15 times rated power input	P
	Within 2 s of the thermal cut-out operating, the kettle is filled with water having a temperature of 15 °C ± 5 °C. After 1 min, the kettle is emptied		P
	The test is carried out 100 times		P
20	STABILITY AND MECHANICAL HAZARDS		
20.1	Appliances having adequate stability		P
	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; appliance does not overturn		P
	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°		P
	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9		N/A
21	MECHANICAL STRENGTH		
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling		P
	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	(see appended table)	P
	The appliance shows no damage impairing compliance with this standard, and		P
	compliance with 8.1, 15.1 and clause 29 not impaired		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3		N/A
	If necessary, repetition of groups of three blows on a new sample		N/A
	Breakage of glass parts is neglected provided that compliance with 8.1, 15.1 and 15.101 is not impaired (IEC 60335-2-15)		N/A
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements		P
	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm		P
	The insulation is tested as specified, and does withstand the electric strength test of 16.3		N/A
22	CONSTRUCTION		
22.6	Electrical insulation not affected by condensing water or leaking liquid		P
	Electrical insulation of Class II appliances not affected if a hose ruptures or seal leaks		P
	In case of doubt, test as described		P
	Drain holes, at least 5 mm in diameter or 20 mm² in area with a width of at least 3 mm (IEC 60335-2-15)	5,2mm in diameter	P
22.8	Electrical connections not subject to pulling during cleaning of compartments to which access can be gained without the aid of a tool, and that are likely to be cleaned in normal use		P
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	No oil, grease or similar substances	P
	the substance has adequate insulating properties		N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
	Obvious locked position of snap-in devices used for fixing such parts		P
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing		N/A
	Tests as described	50N pull and push to enclosure and handle, 50N push and 30N pull to knobs	P
22.12	Handles, knobs etc. fixed in a reliable manner		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible		P
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	knob	P
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	Handle	P
22.13	Unlikely that handles, when gripped as in normal use, make the operator's hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only		P
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance		P
	No exposed pointed ends of self-tapping screws or other fasteners, likely to be touched by the user in normal use or during user maintenance		P
22.15	Storage hooks and the like for flexible cords smooth and well rounded		P
22.18	Current-carrying parts and other metal parts resistant to corrosion		P
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless		P
	material used is non-corrosive, non-hygroscopic and non-combustible		N/A
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	No such material	P
	impregnated		N/A
	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements		P
22.22	Appliances not containing asbestos	No asbestos	P
22.23	Oils containing polychlorinated biphenyl (PCB) not used	No oils	N/A
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported		N/A
	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts		N/A
22.25	Sagging heating conductors, except in class III appliances or class III constructions that do not contain live parts, cannot come into contact with accessible metal parts		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or		P
	so constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete		P
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear		P
	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose		P
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29		P
	Supplementary insulation of natural or synthetic rubber resistant to ageing, or arranged and dimensioned so that creepage distances are not reduced below values specified in 29.2		N/A
	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation		N/A
	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation		P
	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature		N/A
22.33	Conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with live parts, or		P
	unearthed metal parts separated from live parts by basic insulation only		P
	Electrodes not used for heating liquids	No electrode used	P
	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with basic or reinforced insulation, unless		P
	the reinforced insulation consists of at least 3 layers		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless		N/A
	the reinforced insulation consists of at least 3 layers		N/A
	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid		P
22.34	Shafts of operating knobs, handles, levers etc. not live, unless		P
	the shaft is not accessible when the part is removed		N/A
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation		P
	Such parts being of metal, and their shafts or fixings are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by supplementary insulation		P
	This requirement does not apply to handles, levers and knobs on stationary appliances and cordless appliances, other than those of electrical components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal		N/A
	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation		N/A
22.41	No components, other than lamps, containing mercury	No mercury contained	P
22.44	Appliances not having an enclosure that is shaped or decorated like a toy		P
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure		P
22.101	Kettles constructed so that the lid does not fall off when water is poured out (IEC 60335-2-15)		P
	Compliance is checked by the test as specified		P
	Lid not fall off and water only emitted from the spout		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
22.102	Kettles so constructed that there are no sudden jets of steam or hot water likely to expose the user to a hazard when the appliance is used as in normal use (IEC 60335-2-15)		P
	Compliance is checked by inspection during the test of clause 11		P
22.103	Appliance coupler of cordless appliances constructed to withstand the stresses occurring during normal use (IEC 60335-2-15)		P
	Compliance is checked by the test as specified		P
	Appliance is placed on its stand and withdrawn for:		
	- cordless kettles 10 000 times		P
	- cordless coffee makers 10 000 times		N/A
	- other cordless appliances 6 000 times		N/A
	The test continued without current flowing for a further 10 000 times for cordless kettles and cordless coffee makers, or		P
	6 000 times for other cordless appliances		N/A
	If a single stand is supplied with more than one cordless appliance, the test for each cordless appliance is carried out using the same stand		N/A
	The appliance is suitable for further use and compliance with 8.1, 16.3, 27.5 and clause 29 not be impaired		P
	The test is carried out without current flowing if the connection contacts cannot make or break on load		N/A
22.114	Appliances constructed so that food or liquids are prevented from penetrating into places that could cause electrical or mechanical faults (IEC 60335-2-15)		P
23	INTERNAL WIRING		
23.1	Wireways smooth and free from sharp edges		P
	Wires protected against contact with burrs, cooling fins etc.		P
	Wire holes in metal well-rounded or provided with bushings		N/A
	Wiring effectively prevented from coming into contact with moving parts		N/A
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or		N/A
	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation		P
	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,		N/A
	except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.		N/A
	A single layer of internal wiring insulation does not provide reinforced insulation		P
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS		
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage		P
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged		P
	Pull and torque test of supply cord:		
	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm)..... :		N/A
	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)..... :	>1 and <4Kg, 60N pull and 0,25Nm torque	P
	Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)..... :	>1 and <4Kg, 60N pull and 0,25Nm torque	P
	Cord not damaged and max. 2 mm displacement of the cord	Max. 0,8mm	P
27	PROVISION FOR EARTHING		
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

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω)..... :	Max.0,02 Ω	P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60335-2-15 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Household and similar electrical appliances – Safety – Part 2: Particular requirements for appliances for heating liquids	
Differences according to……..…..:	EN 60335-2-15:2016 + A11:2018 +A1:2021+A2:2021+A12:2021used in conjunction with EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019+A15 :2021 EN 62233:2008
TRF template used…….....……:	IECEE OD-2020-F2:2020, ED. 1.1
Attachment Form No……..……:	EU_GD_IEC60335_2_15O_IV
Attachment Originator……...:	IMQ S.p.A.
Master Attachment……....:	2021-04-30
Copyright © 2021 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.	

	CENELEC COMMON MODIFICATIONS		
6.1	Delete “class 0” and “class 0I”	Class I	N/A
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered		P
	Multi-phase appliances to be connected to the supply mains: 400 V covered		N/A
	When the provisions of footnote [b] to Table Z101 apply, the appliance shall be marked with: (EN 60335-2-15)		--
	– the substance of “CAUTION: Hot surface”, or		N/A
	– symbol IEC 60417-5041		N/A
	The warning shall be put on the surface of the appliance having the highest temperature, (EN 60335-2-15)		N/A
	and shall be visible during normal use (EN 60335-2-15)		N/A
	Pot coffee-makers shall have a level mark to indicate when they are filled to rated capacity. This indication shall be visible when the pot coffee-maker is in the filling position (EN 60335-2-15/A11)		N/A
7.6	[symbol IEC 60417-5041] Caution, hot surface (EN 60335-2-15)		N/A
7.12	The instructions for pressure cookers, glue pots with a water jacket, livestock feed boilers, sterilizers, pot coffee-makers shall include the substance of the following: (EN 60335-2-15/A11)		--

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	- This appliance shall not be used by children. Keep the appliance and its cord out of reach of children		N/A
	The instructions for cooking pans, slow cookers, steam cookers, rice cookers, coffee-makers, kettles, egg boilers, milk heaters, tea makers shall include the substance of the following: (EN 60335-2-15)		--
	- This appliance can be used by children aged from 8 years and above if they have been given supervision or instruction concerning use of the appliance in a safe way and if they understand the hazards involved. Cleaning and user maintenance shall not be made by children unless they are older than 8 and supervised. Keep the appliance and its cord out of reach of children aged less than 8 years		P
	The instructions for feeding-bottle heaters, yoghurt makers shall include the substance of the following: (EN 60335-2-15)		--
	- This appliance can be used by children aged from 3 years and above if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Cleaning and user maintenance shall not be made by children unless they are aged from 8 years and above and supervised. Keep the appliance and its cord out of reach of children aged less than 3 years		N/A
	The instructions shall also include the substance of the following: (EN 60335-2-15)		
	- Appliances can be used by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved		P
	- Children shall not play with the appliance		P
	If symbol IEC 60417-5041 is marked on the appliance, the instructions shall state that surfaces are liable to get hot during use (EN 60335-2-15)		N/A
	Instructions for pot coffee-makers shall contain the substance of the following: (EN 60335-2-15/A11)		--
	CAUTION: Never fill the pot coffee-maker above the maximum level since hot foaming coffee or other liquids (e.g. milk) might overflow during heating		N/A
7.14	The height of symbol IEC 60417-5041 shall be at least 8 mm (EN 60335-2-15)		N/A
	The height of the warning “CAUTION. Hot surface” shall be at least 4 mm (measured on the capital letters) (EN 60335-2-15)		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
8.1.1	Also test probe 18 of EN 61032 is applied		P
	The appliance being in every possible position during the test, except that		P
	appliances normally used on the floor and having a mass exceeding 40 kg are not tilted		N/A
	The force on the probe in the straight position is increased to 10 N when probe 18 is used		P
	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and		P
	parts intended to be removed for user maintenance are also not removed		P
8.1.3	Instead of test probe B, test probe 18 and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied with a force not exceeding 1 N to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action		N/A
8.2	Compliance is checked by applying the test probes of EN 61032		P
	For built-in appliances and fixed appliances, the test probe B and probe 18 of EN 61032 are applied only after installation		N/A
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, soy milk makers, tea makers, kettles, pot coffee-makers and other appliances for boiling water having a rated capacity not exceeding 10 l, the temperature rise limits in Table Z101 apply .....: (EN 60335-2-15/A11)	(see appended table)	P
	The appliance is supplied at rated voltage and operated under normal operation (EN 60335-2-15)		P
	Temperature rises are not measured on: (EN 60335-2-15)		--
	– the lids,		P
	– surfaces within 25 mm from • the edge of the lid, • the ventilation openings, • the edge of the hot functional surface		P
	– enclosure at a distance within 25 mm from the heating element		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	– underside surfaces that are not accessible with probe 41 of EN 61032. The probe is applied without appreciable force		P
11.Z102	For feeding-bottle heaters and yoghurt makers the temperature rise limits in Table Z101 apply ……..……: (EN 60335-2-15)	(see appended table)	N/A
	The appliance is supplied at rated voltage and operated under normal operation (EN 60335-2-15)		N/A
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling		N/A
20.2	For appliances having dangerous moving parts, due to their working function, e.g. the needle of a sewing machine, tools of kitchen machines or the blade of an electrical knife, full protection is not possible for performing their intended use		N/A
	When using the test probe similar to test probe B with a circular stop face, the accessories and detachable covers are removed		N/A
	Test probe 18 applied with a force of 2,5 N on the appliance fully assembled		N/A
22.12	Other parts intended to be detached during use, maintenance or cleaning (examples are batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers		P
22.44	An appliance is child-appealing if one of the following criteria is present:		N/A
	- appliance decorated using faces, cartoon like characters, or similar images;		N/A
	- appliance using shapes representing animals, characters, persons or scale models.		N/A
	An appliance is child-appealing if more than one of the following criteria are present:		N/A
	- using non-functional light;		N/A
	- using non-functional sound;		N/A
	- using non-functional movement.		N/A
	If the appliance is child-appealing (except toy shaped like the appliance), has a mass less than 4 kg or is mounted or normally intended for use at a height less than 850 mm, the following conditions shall be met:		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	--- No surface (both functional surface and non-functional) that are accessible by means of test probe 19 of IEC 61032 located at a height less than 850 mm shall exceed the temperature rises state below:		N/A
	- of bare metal 38k ……		N/A
	- of coated metal 42k ……		N/A
	- of glass and ceramic 51k ……		N/A
	- of plastic having a thickness exceeding 0.4mm 58k ……		N/A
	--- Hazardous moving parts shall not be accessible by means of test probe 19 of IEC 61032 under the conditions specified for test probe 18 in Clause 20.2.		N/A
	--- Live parts shall not be accessible by means of test probe 19 of IEC 61032 under the conditions specified for test probe 18 in Clause 8.1.1.		N/A
	--- Liquid in the appliance shall not exceed 38 °C in normal use when it is accessible by means of test probe 19 under the conditions specified for test probe 18 in Clause 20.2 or can get out of the appliance when positioned in different positions. Vessels in which two independent and sequential actions are needed to access the liquid are considered to meet the requirement.		N/A
	--- The requirement of 22.12 is applicable for all accessible parts of the appliance.		N/A
22.Z101	For pot coffee-maker the operation shall not give a spillage of foaming coffee in normal use (EN 60335-2-15/A11)		N/A
	Compliance is checked by the following test. The pot coffee-maker is filled with water up to the maximum level set by the manufacturer or up to 40 % of its total capacity whichever is greater. 8 g of ground coffee with no particles larger than 89 µm should be added per 100 ml of water. The appliance is switched on, the content of the pot shall be stirred continuously so that all coffee gets wet and mixes with water until it attains a temperature of 75 °C. The operation is continued without stirring until the mixture attains a temperature of 90 °C. Then the operation is continued without stirring for 3 minutes. During the test no overflow shall be observed (EN 60335-2-15/A11)		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
24.1	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance		P
	Components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard		P
	The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components		P
	Components that have not been tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard		P
	Components that have been previously tested and shown to comply with the resistance to fire requirements in the standard for the relevant component need not be retested provided that:		--
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		P
	- unless the pre-selection alternatives in 30.2 are used, the test report for the component states the values of t_e and t_i according to EN 60695-2-11		P
	If the above two conditions are not satisfied, the component is tested as part of the appliance		P
	Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to this standard		N/A
	Unless components have been tested and found to comply with the relevant EN standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant EN standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components that have not been separately tested and found to comply with the relevant EN standard, and		P
	components that are not marked or not used in accordance with their marking,		P
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Lamp-holders and starter-holders that have not been previously tested and found to comply with the relevant standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant EN standard under the conditions occurring in the appliance		N/A
	Where the relevant EN standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used		N/A
	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard		N/A
	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or		N/A
	with connectors and appliance inlets complying with the standard sheets of EN 60320-1,		N/A
	if direct supply to these parts from the supply mains gives rise to a hazard		N/A
	For plugs used in CENELEC countries Annex ZH applies		P
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151		N/A
24.Z1	For motor running capacitors (IEC 60252-1 type S2 or S3) with a metallic enclosure having an overpressure fuse the flame testing of internal plastic parts supporting current carrying connections as required in 30.2.2 and 30.2.3.1 is not necessary		N/A
25.1	Plugs and pins for insertion into socket-outlets follow the relevant standards sheets in Annex ZH		N/A
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors or when they are liable to be exposed to significant amount of ultraviolet radiation		N/A
	Halogen-free thermoplastic compound sheathed supply cords have properties at least those of:		--

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	• halogen-free thermoplastic compound sheathed cords (H03Z1Z1H2-F or H03Z1Z1-F), for appliances having a mass not exceeding 3 kg		N/A
	• halogen-free thermoplastic compound sheathed cords (H05Z1Z1H2-F or H05Z1Z1-F), for other appliances		N/A
	Cross-linked halogen-free compound sheathed supply cords have properties at least those of cross-linked halogen-free compound sheathed cords (H07ZZ-F)		N/A
25.25	Dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are to be in accordance with the dimensions of the relevant plug standard		P
	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH		P
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position unless they are held in place near the terminals independently of the solder		P
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2		N/A
32	Compliance regarding electromagnetic fields is checked according to EN 62233		P
Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified		N/A
	The duration of the test is as specified in 19.7		N/A
ZA	**ANNEX ZA** (NORMATIVE) **SPECIAL NATIONAL CONDITIONS**		--
	Denmark, Sweden, Norway and Finland		--
7.12.8	The maximum inlet water pressure is at least 1,0 MPa..... :		N/A
	Norway		--
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Norway		--
22.2	The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system		N/A
	Denmark		--
22.47	The maximum inlet water pressure is at least 1,0 MPa..... :		N/A
	Ireland and United Kingdom and Cyprus.		--
25.8	In the table, the line "> 10 A and ≤ 16 A" is replaced by:		--
	> 10 and ≤ 13 1,25 (1,0)[b]		N/A
	> 13 and ≤ 16 1,5 (1,0)[b]		N/A
ZB	**ANNEX ZB** (INFORMATIVE) **A-DEVIATIONS**		--
	Ireland		--
25.1 and 25.5	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances		N/A
	United Kingdom		--
25.1 and 25.5	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances		P
	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		N/A
ZC	**ANNEX ZC** (NORMATIVE) **NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS**		--
	A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
ZD	**ANNEX ZD** (INFORMATIVE) **IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS**		
	A table with IEC and CENELEC code designations for flexible cords		P
ZE	**ANNEX ZE** (INFORMATIVE) **SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE**		--
7.1	Business name and full address of the manufacturer and, where applicable, his authorized representative ..... :		N/A
	Model or type reference..... :		N/A
	Serial number, if any..... :		N/A
	Production year		N/A
	Designation of the appliance ..... :		N/A
7.12	Instructions provided with the appliance so that the appliance can be used safely		N/A
	The instructions contain at least the following information:		--
	- the business name and full address of the manufacturer and, where applicable, his authorized representative		N/A
	- model or type reference of the appliance as marked on the appliance itself, except for the serial number		N/A
	- the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers		N/A
	- the general description of the appliance, when needed due to the complexity of the appliance		N/A
	- specific precautions if required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving		N/A
	- when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance		N/A
	- the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance		N/A
	The words “Original instructions” appear on the language version(s) verified by the manufacturer or by the authorized representative		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	When a translation of the original instructions has been provided by a person introducing the appliance on the market; the meaning of the sentence “Translation of the original instructions” appear in the relevant instructions delivered with the appliance		N/A
	The instructions for maintenance/service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand		N/A
	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures		N/A
7.12.ZE1	If needed for specific appliances, the following information to be given:		--
	• on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts		N/A
	• on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A
	• on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided		N/A
	• on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance		N/A
	• on the specifications on the spare parts to be used, when these affect the health and safety of the operator		N/A
	• on airborne noise emissions, determined and declared in accordance with the relevant part 2, which includes:		--
	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A) ..... :		N/A
	- where this level does not exceed 70 dB(A), this fact is indicated		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	- the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 µPa)..... :		N/A
	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A)..... :		N/A
7.12.ZE2	The instructions include a warning to disconnect the appliance from its power source during service and when replacing parts		N/A
	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed		N/A
	If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position is provided		N/A
19.11.4.8	The appliance continues to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or		N/A
	a manual operation is required to restart it		N/A
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance		N/A
20.2	Dangerous moving transmission parts safeguarded either by design or guards		N/A
	When guards are used, they are fixed guards, interlocking movable guards or protective devices		N/A
	Moving parts directly involved in the function of the appliance which cannot be made completely inaccessible fitted with:		--
	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and		N/A
	- adjustable guards restricting access to those sections of the moving parts where access is necessary		N/A
	Interlocking movable guards used where frequent access is required		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
21.1	Appliances and their components and fittings have adequate mechanical strength and is constructed to withstand such rough handling that may be expected in normal use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A
22.ZE.1	For appliances provided with a seat, the seat gives adequate stability		N/A
	The distance between the seat and the control devices capable of being adapted to the operator		N/A
22.ZE.2	For appliances provided with separate devices for the start and the stop functions, the stop function is unambiguously identifiable and does always override the start function		N/A
	For appliances provided with one device performing the start and the stop function, the stop function is unambiguously identifiable and does always override the start function		N/A
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation		N/A
	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure		N/A
22.ZE.4	Where the weight, size or shape prevents appliances from being moved manually, they are fitted with attachments for lifting gear, or		N/A
	so designed that they can be fitted with such attachments, or		N/A
	be shaped in such a way that standard lifting gear can easily be used		N/A
	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely		N/A
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools		N/A
	If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal		N/A
	Where possible, guards are incapable of remaining in place without their fixings		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative		N/A
	Movable guards are interlocked		N/A
	The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed		N/A
	Where it is possible for an operator to reach the danger zone before the risk due to hazardous appliance functions has ceased, movable guards associated with a guard locking device in addition to an interlocking device that:		--
	- prevents the start of hazardous appliance functions until the guard is closed and locked, and		N/A
	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased		N/A
	Interlocking movable guards remain attached to the appliance when open, and		N/A
	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action		N/A
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions		N/A
	The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific part 2..... :		N/A
	After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time		N/A
	After these tests the interlock system is fit for further use		N/A
22.ZE.7	Adjustable guards restricting access to areas of the moving parts strictly necessary for the work are:		--
	- adjustable manually or automatically, depending on the type of work involved, and		N/A
	- readily adjustable without the use of tools		N/A
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred		N/A
22.ZE.9	Appliances fitted with means to isolate them from all energy sources		N/A
	Such isolators are clearly identified, and		N/A
	they are capable of being locked if reconnection endanger persons		N/A
	After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons		N/A
ZF	**ANNEX ZF** (INFORMATIVE) **CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD**		--
	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive)..... :	LVD	P
ZG	**ANNEX ZG** (NORMATIVE) **UV APPLIANCES**		--
	The following modifications to this standard apply to appliances having UV emitters		N/A
	This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109		N/A
7.12.ZG	The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source		N/A
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant		N/A
ZH	**ANNEX ZH** (INFORMATIVE) **COMMON PLUG AND SOCKET-OUTLET TYPES IN CENELEC COUNTRIES**		
	In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	- for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4.:	EU4	P
	- for class II appliances, standard sheet EU5, EU6 or EU7.....:		N/A
	There are exemptions or differences in certain CENELEC countries		N/A
ZI	**ANNEX ZI** (INFORMATIVE) **INFORMATION ON THE APPLICATION OF A11:2014 TO EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A**		--
	Clarification of the application of Parts 2 in conjunction with the 2002 or 2012 version of EN 60335-1		P
ZZ	**ANNEX ZZ** (INFORMATIVE) **REALATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96] AIMED TO BE COVERED (EN 60335-2-15/A11)**		--
	This European standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96]		P
	Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations		P
	Compliance with this Part 2 when used together with Part 1 provides one means of conformity with the safety objectives		P
	A table with correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union		P
	WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard		P
ZZA	**ANNEX ZZA** (INFORMATIVE) **REALATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96] AIMED TO BE COVERED**		--
	Description relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96]		P
	A table with correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]		P
ZZB	**ANNEX ZZB** (INFORMATIVE) **REALATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE ESSENTIAL REQUIREMENTS OF DIRECTIVE 2006/42/EC AIMED TO BE COVERED**		--
	Description relating to Mandate for standardization in the field of machinery “M/396” to provide one voluntary means of conforming to essential requirements of EU Directive 2006/42/EC		N/A
	A table with correspondence between this European standard and Annex I of Directive 2006/42/EC [OJ No L 157]		N/A

10.1	TABLE: Power input deviation				P
Input deviation of/at:	**P rated (W)**	**P measured (W)**	**Δ P**	**Required Δ P**	**Remark**
PK-G988, PK-G988B	1850	1730	-6,5%	-10%~+5%	Supplied at 220V
	2200	2064	-6,2%	-10%~+5%	Supplied at 240V
Supplementary information:					

11.8	**TABLE: Heating test, thermocouples** PK-G988B		P
	Test voltage (V)..... :	2530W, 265V	—
	Ambient (°C) ..... :	23°C	—

Thermocouple locations	dT (K)	Max. dT (K)
Supply cord	20	50
Handle	28	60
Internal wiring	77	155(T-25)
Wood support	32	65
Knob of lid	43	60
Ambient of thermal cut out (Strix (U9201))	88	100(T-25)
Ambient of temperature limiter (Strix (U9201))	78	100(T-25)
Ambient of thermal cut out (Fada (KSD-889))	89	100(T-25)
Ambient of temperature limiter (Fada (KSD-889))	76	100(T-25)
Ambient of thermal cut out (Henglai (KSD185-B3))	86	100(T-25)
Ambient of temperature limiter (Henglai (KSD185-B3))	74	100(T-25)
Knob of temperature limiter	13	60
Indicator cover	31	--
Enclosure of kettle	42	--
Enclosure of stand	28	--
Supplementary information: three temperature controllers and couplers were tested and the most unfavourable results were recorded.		

11.Z101	**TABLE: Heating test, thermocouples** PK-G988B			P
	Test voltage (V) ..... :	240		—
	Ambient (°C) ..... :	23		—
Thermocouple locations	Dt (K)	Max. Dt (K)	Twice Max. Dt (K)	
Plastic enclosure	55	65	130	
Metal decoration	36	45	90	

13.2	TABLE: Leakage current		P
	Heating appliances: 1.15 x rated input (W) ..:	Refer to Cl.11.8	—
	Motor-operated and combined appliances: 1.06 x rated voltage (V).....:	N/A	—

Leakage current between:	**I (mA)**	**Max. allowed I (mA)**
L/N – Earthing metal parts	0,05(Max.)	0,75
L/N – Non-earthing enclosure	0,01(Max.) peak	0,35 peak
L/N – knob/handle	0,01(Max.) peak	0,35 peak
Supplementary information:		

13.3	TABLE: Dielectric strength	P

Test voltage applied between:	**Test potential applied (V)**	**Breakdown / flashover (Yes/No)**
Parts isolated with basic insulation	1000	No
Parts isolated with supplementary insulation	1750	No
Parts isolated with reinforced insulation	3000	No
Supplementary information:		

16.2	TABLE: Leakage current		P
	Single phase appliances: 1.06 x rated voltage (V).....:	254,4V	—
	Three phase appliances 1.06 x rated voltage divided by √3 (V).....:	N/A	—

Leakage current between:	**I (mA)**	**Max. allowed I (mA)**
Live parts – Earthing metal parts	0,08 (Max.)	**0,75**
Live parts – Non-earthing enclosure	0,02 (Max.)	**0,25**
Live parts – Knob/handle	0,02 (Max.)	**0,25**
Supplementary information:		

16.3	TABLE: Dielectric strength	P

Test voltage applied between:	**Test potential applied (V)**	**Breakdown / flashover (Yes/No)**
Parts isolated with basic insulation	1250	No
Parts isolated with supplementary insulation	1750	No
Parts isolated with reinforced insulation	3000	No
Supplementary information:		

19.13	TABLE: Abnormal operation, temperature rises PK-G988B				P
Thermocouple locations	Max. temperature rise measured, dT (K)				Max.temperature rise limit, dT (K)
	Cl.19.3		Cl.19.4	Cl.19.101/ Cl.19.102	
	Empty	With water			
Wooden support	35	37	54	38	150
Supply cord	21	20	63	20	150
Enclosure of kettle	54	56	--	53	—
Enclosure of stand	29	30	--	31	—
Indicator cover	47	48	--	43	—

24.1	TABLE: Critical components information				P
Object / part No.	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity**
Internal wire	CIXI SHUANGHONG WIRE CO., LTD.	H05S-K H05SJ-K	1x0,75 ~1,0 mm², T180	DIN EN 50525-2-41	VDE*/ 40017324
refer to the last CDF for detail					

29.1	TABLE: Clearances						P
	Overvoltage category .... :			II			—
		Type of insulation:					
Rated impulse voltage (V):	**Min. cl (mm)**	**Basic (mm)**	**Supplementary (mm)**	**Reinforced (mm)**	**Functional (mm)**	**Verdict / Remark**	
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	**1,5 / 2,0*** **	X	X	-	X	P	
4 000	**3,0 / 3,5*** **	-	-	X	-	P	
6 000	5,5 / 6,0***	-	-	-	-	N/A	
8 000	8,0 / 8,5***	-	-	-	-	N/A	
10 000	11,0 / 11,5***	-	-	-	-	N/A	

Supplementary information:

*) 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) Pollution degree**										
	1	**2**			**3**			**Type of insulation**			
		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	**0,56**	1,25	1,8	**2,5**	3,2	3,6	**4,0**	X	—	—	P
250	0,56	1,25	1,8	**2,5**	3,2	3,6	**4,0**	—	X	—	P
250	1,12	2,5	3,6	**5,0**	6,4	7,2	**8,0**	—	—	X	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
>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
>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
Supplementary information: *) 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) Pollution degree**			
	1	**2**	**3**	
		Material group	**Material group**	

		I	II	IIIa/IIIb	I	II	IIIa/IIIb*	Verdict / Remark
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N/A
50	0,16	0,56	0,8	1,1	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
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								

30.2	TABLE: Resistance to heat and fire - Glow wire tests						P
Object/ Part No./ Material	**Manufacturer/ trademark**	**Glow wire test (GWT); (°C)**					**Verdict**
		550	**650**		**750**	**850**	
			te	**ti**	**te**	**ti**	
Plastic of temperature controller	All (refer to CDF)					NI		P
Plastic of connector	All (refer to CDF)					NI		P
Object/ Part No./ Material	**Manufacturer/ trademark**	**Glow-wire flammability index (GWFI), °C**				**GW ignition temp. (GWIT), °C**		**Verdict**
		550	**650**	**750**	**850**	**675**	**775**	
								N/A
The test specimen passed the glow wire test (GWT) with no ignition [($t_e - t_i$) ≤ 2s] (Yes/No):								Yes
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No) .....:								N/A

The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)?.....:	Yes
Ignition of the specified layer placed underneath the test specimen (Yes/No) .....:	No
Supplementary information: - 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF - The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances	

Photo 1.

Description: Overall view of PK-G988B

Photo 2.

Description: Overall view of PK-G988, PK-G988B

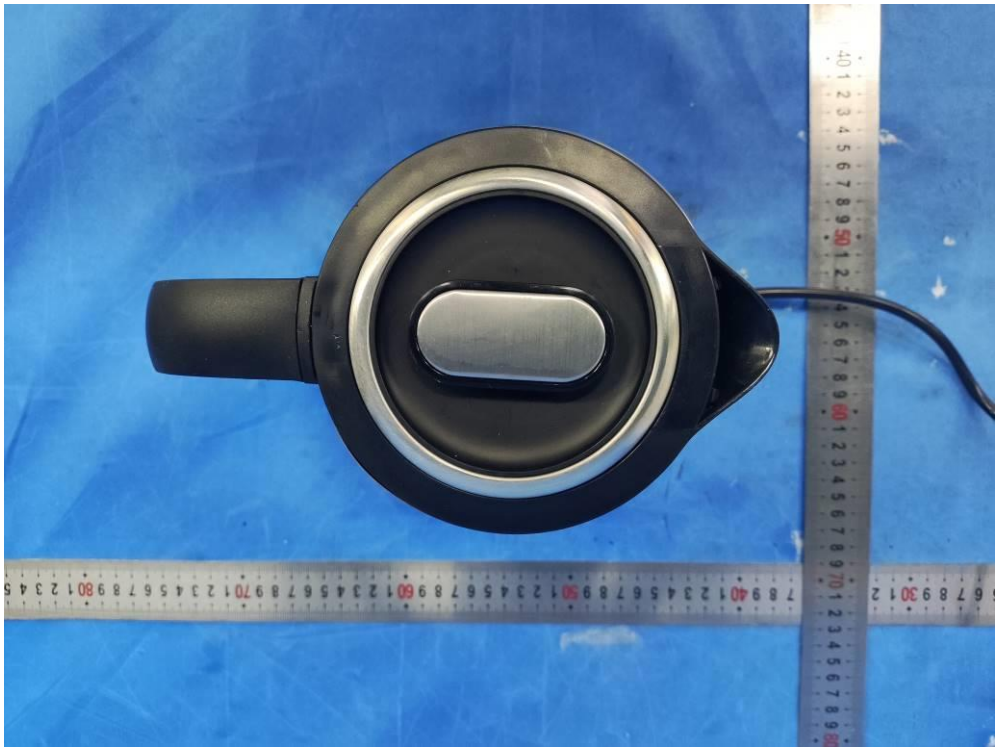

Photo 3.

Description: Overall view of PK-G988B

Photo 4.

Description: Overall view of PK-G988B

Photo 5.

Description: Overall view of PK-G988B

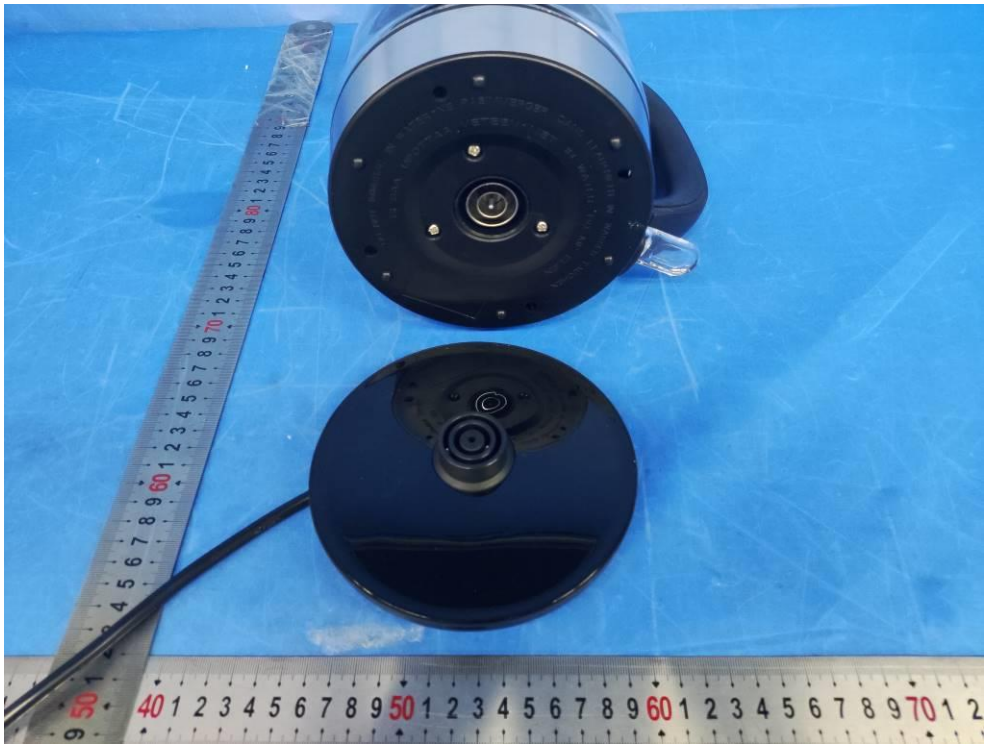

Photo 6.

Description: Lid open view of PK-G988, PK-G988B

Photo 7.

Description: Switch view of PK-G988, PK-G988B

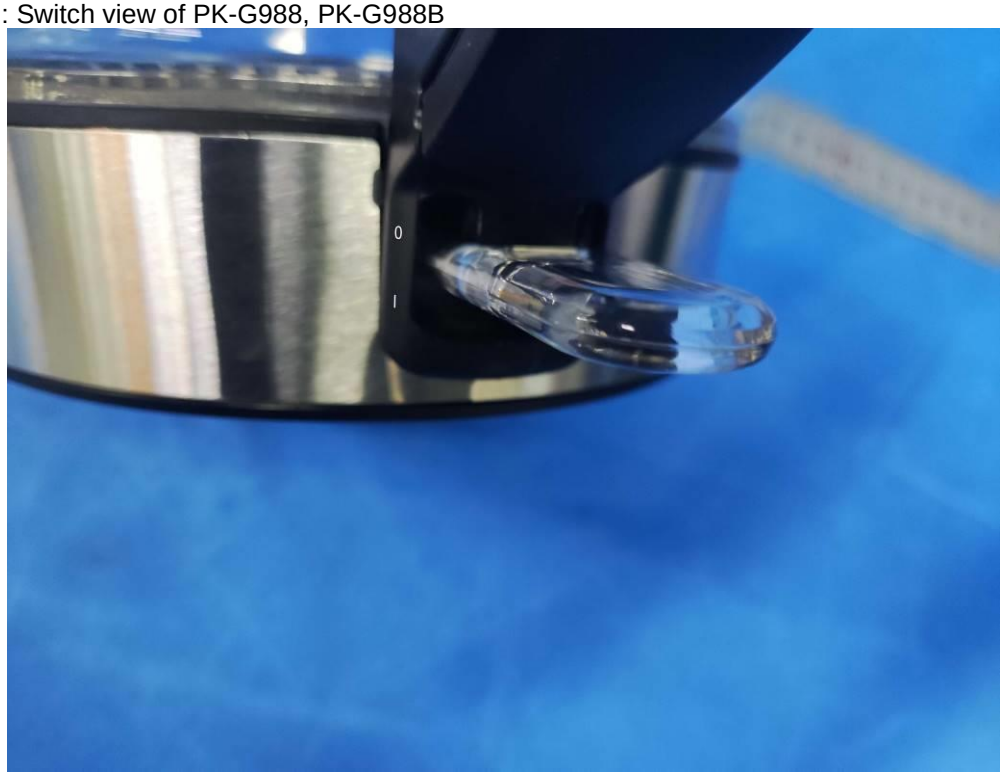

Photo 8.

Description: Internal view of PK-G988, PK-G988B

Photo 9.

Description: Internal view of PK-G988, PK-G988B

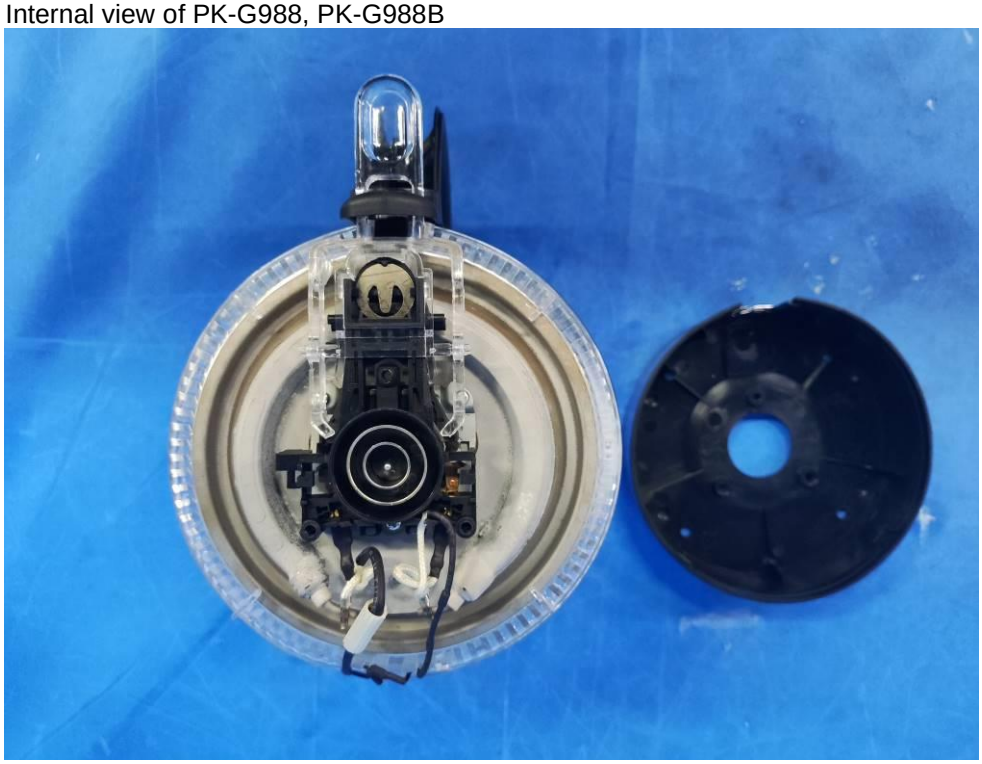

Photo 10.

Description: Earthing connect view of PK-G988, PK-G988B

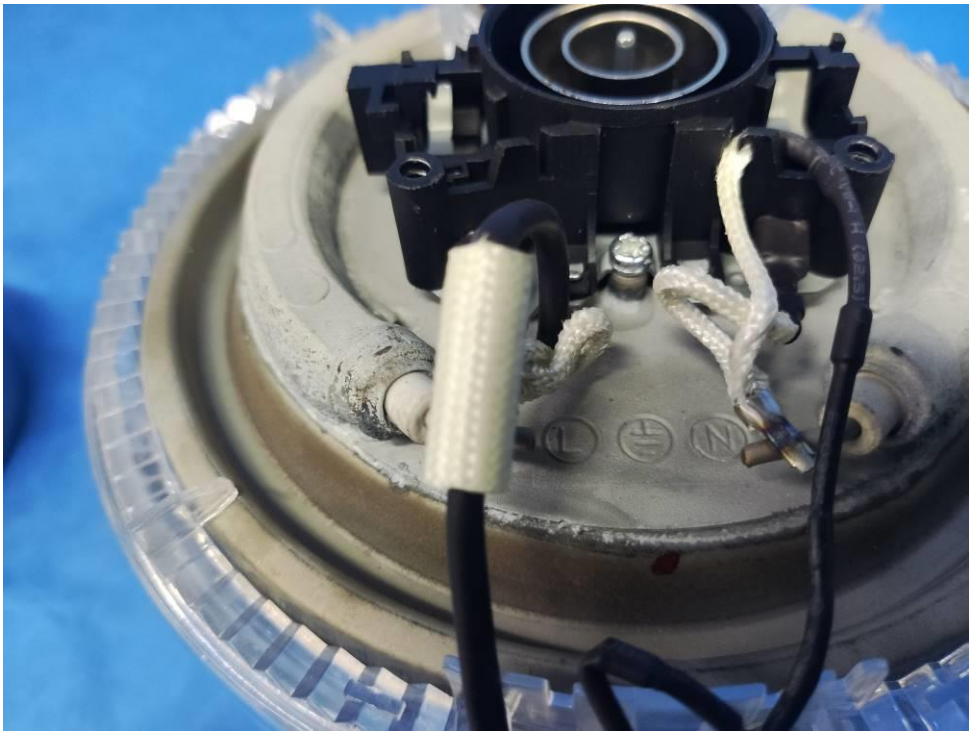

Photo 11.

Description: Overall view of stand for PK-G988B

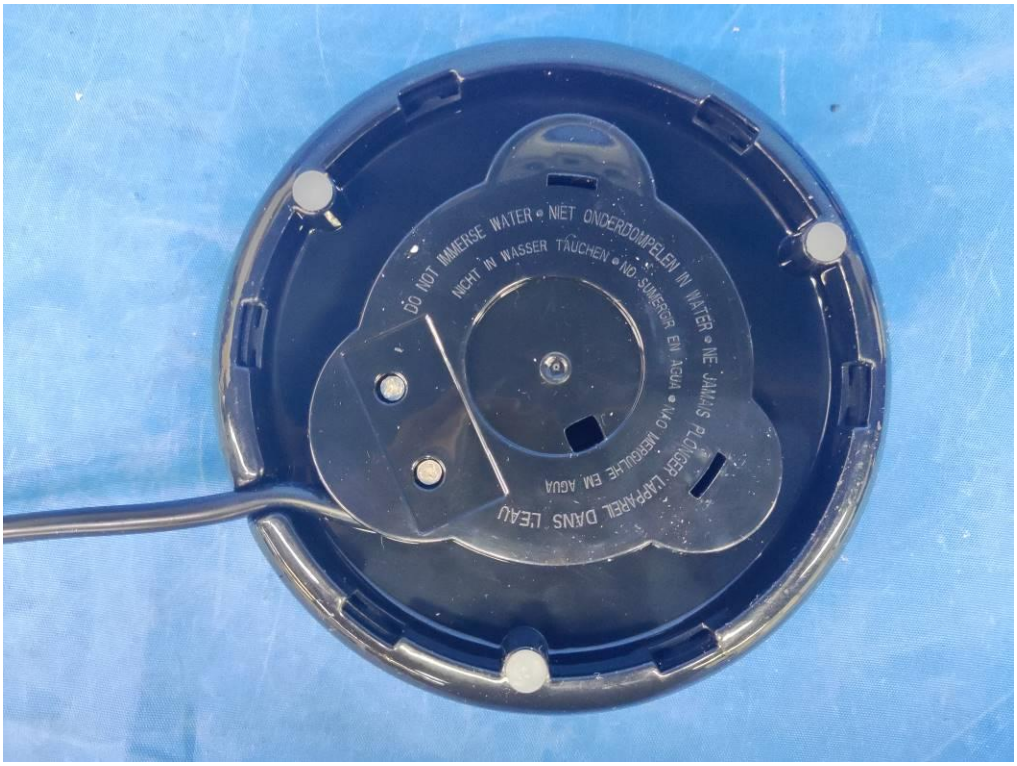

Photo 12.

Description: Internal view of stand for PK-G988B

Photo 13.

Description: Earthing connect view of stand for PK-G988, PK-G988B

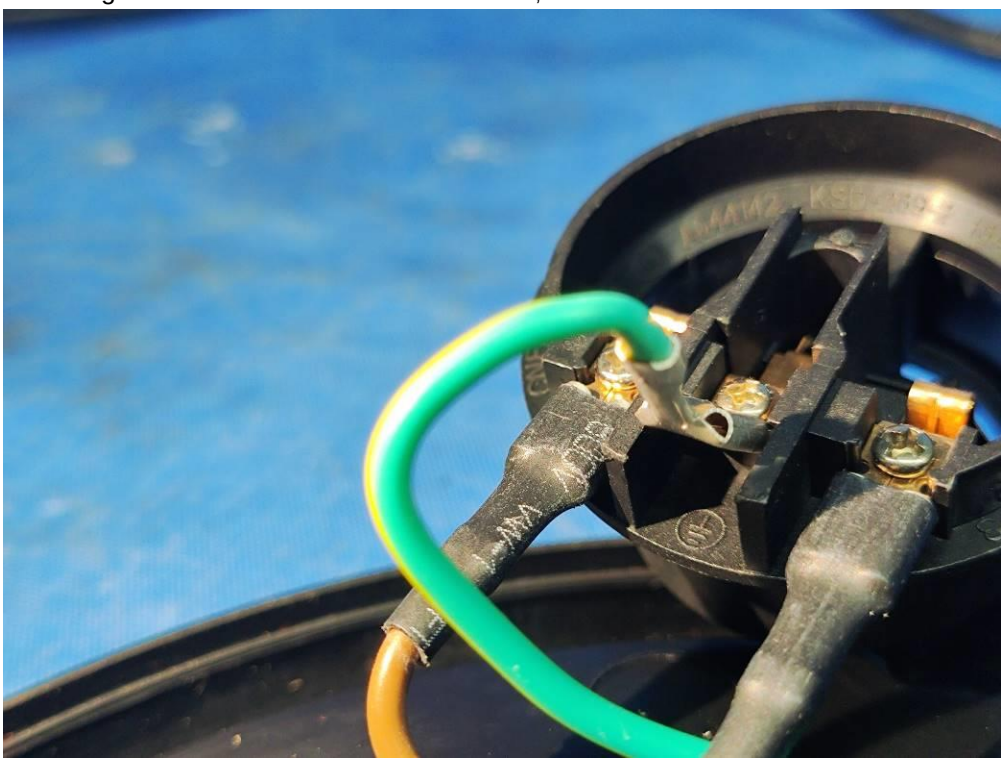

Photo 14.

Description: Overall view of PK-G988

Photo 15.

Description: Overall view of PK-G988

Photo 16.

Description: Overall view of PK-G988

Photo 17.

Description: Overall view of PK-G988

Photo 18.

Description: Overall view of PK-G988

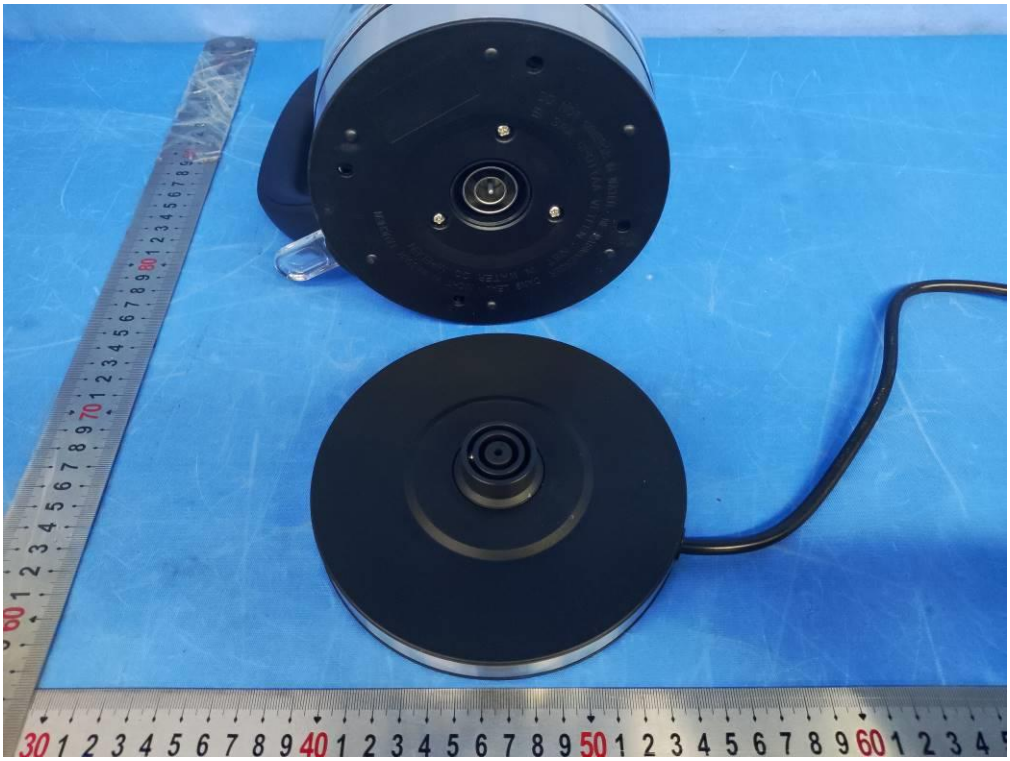

Photo 19.

Description: Overall view of stand for PK-G988

Photo 20.

Description: Internal view of stand for PK-G988

Photo 21.

Description: Thermal control and Cordless connector system view of PK-G988, PK-G988B (KSD185-B3 and KSD185-K3 of Henglai)

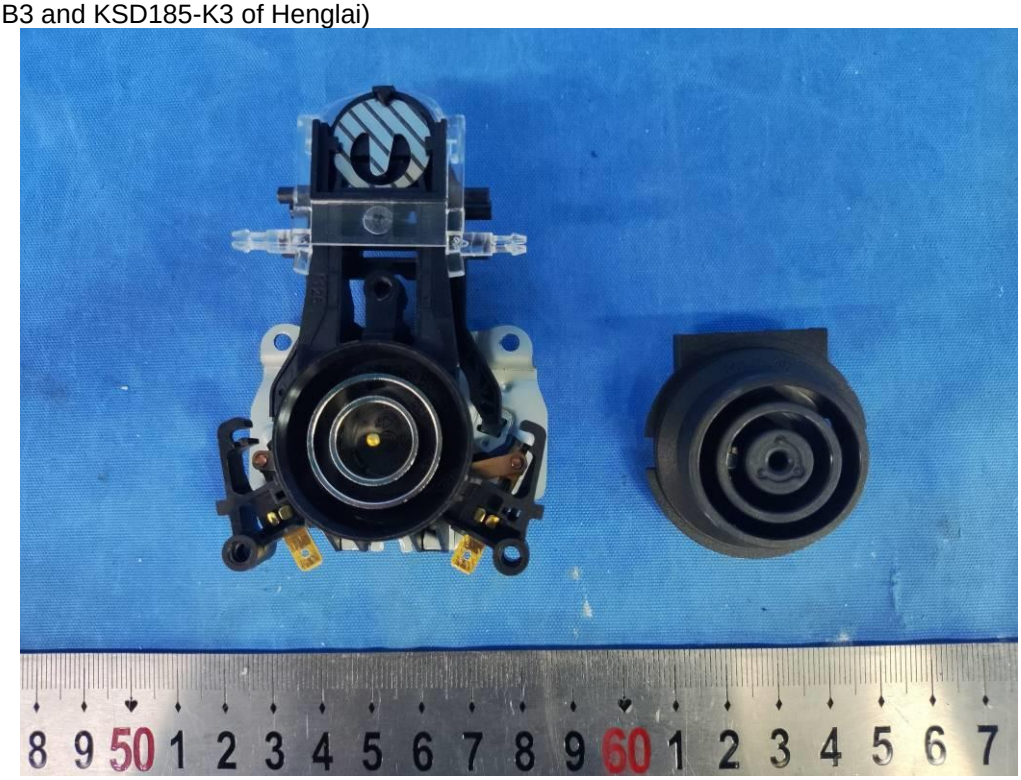

Photo 22.

Description: Thermal control and Cordless connector system view of PK-G988, PK-G988B (KSD185-B3 and KSD185-K3 of Henglai)