




TEST REPORT N°: LMO-15AU1736DTSP-A4
Supplement A4 to test report No: LMO-15AU1736DTSP dated on 2015-09-09

TEST REPORT

To:	Ningbo Lamo Electric Appliance Co.,Ltd	To:	-
Attn:	Mr Cheng Lidi	Attn:	-
Address:	Rongyu Village, Xinpu Town, Cixi, Zhejiang315322, P.R.China	Address:	-
Fax:/E-mail:	--	Fax:	-
		E-mail:	-

This document includes: 44 pages

Factory name:	Ningbo Lamo Electric Appliance Co.,Ltd
Location:	Rongyu Village, Xinpu Town, Cixi, Zhejiang315322, P.R.China

	Start date:	2021-03-18
	Finish date:	2021-03-25
	Standards used: (Date):	EN 60335-2-24:2010+A1:2019+A2:2019+A11:2020 EN 60335-1:2012 + A11:2014+A13:2017 + A1:2019 + A14:2019 + A2:2019 EN 62233:2008 BS EN 60335-2-24:2010+A1:2019+A2:2019+A11:2020 BS EN 60335-1:2012 + A11:2014+A13:2017 + A1:2019 + A14:2019 + A2:2019 BS EN 62233:2008
	Clauses examined:	Refer to page 4
	Re-testing:	None
Upright Freezer/ BD-40	Remark / Note:	None



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CONCLUSION: The sample satisfies to the clauses examined.

Test done by, name, function, signature

Approved by, name, function, signature

Terry Duan, Project engineer ,

Terry Duan

Bluce Ma, Project manager,

Bluce Ma

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

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TEST REPORT IEC 60335-1:2010 & IEC 60335-2-24:2010



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COPY OF RATING PLATE:

		Freezer			
BD-40					
Rated Voltage:	220-240V				
Rated Frequency:	50Hz				
Rated Current:	0.7A				
Protection Class:	I				
Climate Class:	ST,N				
Refrigerant and Mass:	R600a/24g				
Blowing gas:	C ₅ H ₁₀				
Rated gross volume:	35L				
Rated storage volume:	35L				
Rated energy consumption:	0.39kWh/24h				
Rated freezing capacity:	2.0kg/24				
Product date:					
No:					
S/N No:					
Ningbo Lamo Electric Appliance Co.,Ltd					

Note: marking on front surface of appliance

NOTE 1: Only markings and instruction sheet in English language present on the sample tested were checked and validated during this examination. The text required by the standard should be translated into the official language of the country where the appliance will be sold.

Note 2: for EUROPEAN market the name and address of EUROPEAN importer also should list in the marking plate. The height of CE symbol shall be no less than 5mm, WEEE symbol shall be no less than 7mm.

The appliance tested in this report is upright freezer for household and indoor use only, it including motor compressor with R600a refrigerant for cooling and uses thermostat for controlling the storage temperature.

Test data of storage volume, energy consumption and freezing capacity refer to report LMO-15AU1738DTSP

All Clause were performed on BD-40

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Amendment 1:

This report based on history report LMO-15AU1736DTSP dated on 2015-09-09 with following addition:

1, Add alternative capacitor and BS Plug for which show **BOLD** in CDF

After checked ,clauses 24,30.2, ZA and ZB were performed

Amendment 2:

This report based on history report LMO-15AU1736DTSP dated on 2015-09-09, LMO-15AU1736DTSP-A1 dated on 2016-03-10 with following addition:

1, Add alternative construction(wire connector)
2, Add alternative BS Plug for which show **BOLD** in CDF.

After checked ,clauses 8,22,24,,26,29 were performed

Amendment 3:

This report based on history report LMO-15AU1736DTSP, LMO-15AU1736DTSP-A1, LMO-15AU1736DTSP-A2 with following addition:

1, Update CDF, alternative thermostat added;
2, EN 60335-2-24:2010/A1:2019+A2:2019, EN 60335-1:2012/A13:2017 newly checked.

After checked ,clauses 24 and 30.2 were performed

Appendix 1: EN 60335-1:2012/A13:2017, EN 60335-2-24:2010/A1:2019+A2:2019

Appendix 2: IEC 60335-2-24:2010/A1:2012+A2:2017

Amendment 4:

This report based on history report LMO-15AU1736DTSP, LMO-15AU1736DTSP-A1, LMO-15AU1736DTSP-A2, LMO-15AU1736DTSP-A3 with following addition:

1, Update CDF
2, EN 60335-2-24:2010/A11:2020
EN 60335-1:2012 /A1:2019 + A14:2019 + A2:2019
BS EN 60335-2-24:2010+A1:2019+A2:2019+A11:2020
BS EN 60335-1:2012 + A11:2014+A13:2017 + A1:2019 + A14:2019 + A2:2019
BS EN 62233:2008 newly checked



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DESCRIPTION	
Test item particulars:	Upright Freezer
Trade mark:	LAMO
Type/model:	BD-40
Color of enclosure:	White
Rated Voltage (V):	220-240V
Rated Power (W):	No, 0,7 in current
Speed (/min or min-1):	No
Nature of supply:	~
Class of protection against electrical shock:	Class I
Degree of protection against harmful ingress of water:	IPX0
Type of operation	Continuous
Duty conditions	Normal
Switch:	No
Thermostat:	Yes
Temperature limiter:	No
Thermal cut-out:	No
Electronic circuit:	No
Timer:	No
CE marking:	Yes
Type of motor:	QD52YV
Resistance of stator (Ω):	No
Resistance of rotor (Ω):	No
Insulation class of motor:	No
Connection to water supply mains:	No
Type of cord attachment:	Type Y
Appliance inlet provided:	No
Stand provided with appliance:	No
Marking on knobs:	Yes
Marking speed regulation:	No
Length of cord:	1,45m
Mass of tool	14,5Kg
Transformer:	No
Other information about appliance:	No
Accessory and detachable parts included:	Yes

Possible test case verdicts:	
- test object does meet the requirement :	P (Pass)
- test case does not apply to the test object :	NA (Not applicable)
- test object does not meet the requirement :	F (Fail)
- test object does not demand	ND (Not demanded)
General remarks:	
"(See remark #)" refers to a remark appended to the report.	
Throughout this report a comma is used as the decimal separator.	

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IEC 60335-2-24

Clause	Requirement – Test	Result – Remark	Verdict
24	COMPONENTS		—
24.1	Components comply with safety requirements in relevant IEC standards		P
	List of components	(see appendix components)	P
	Components not tested and found to comply with relevant IEC standard for the number of cycles specified are tested in accordance with 24.1.1 to 24.1.6 (no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9)		P
	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance		P
	Motor-compressors are not required to be separately tested according to IEC 60335-2-34 nor are they required to meet the requirements of IEC 60 335-2-34 if they meet the requirements of this standard (IEC 60335-2-24:2010)	Certificated motor-compressor	NA
	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard		NA
	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309		NA
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14, or		NA
	tested according to annex F		NA
24.1.2	Safety isolating transformers complying with IEC 61558-2-6, or		NA
	tested according to annex G		NA
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000, or		NA
	tested according to annex H		NA

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	The number of operations for other switches (IEC 60335-2-24:2010) :		—
	- quick-freeze switches:	300	NA
	- manual and semi-automatic defrost switches	300	NA
	- door switches	50'000	NA
	- on/off switches	300	NA
	If the switch operates a relay or contactor, the complete switching system is subjected to the test		NA
	If the switch only operates a motor starting relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		NA
24.1.4	Automatic controls complying with IEC 60730-1 with relevant part 2		P
	The number of cycles of operation being:		—
	- thermostats:	10'000	NA
	- temperature limiters:	1'000	NA
	- self-resetting thermal cut-outs:	300	NA
	- non-self-resetting thermal cut-outs:	30	NA
	- voltage maintained non-self-resetting thermal cut-outs:	1'000	NA
	- other non-self-resetting thermal cut-outs:	30	NA
	- timers:	3'000	NA
	- energy regulators:	10'000	NA
	- self-resetting thermal cut-outs which may influence the test results of 19.101 and which are not short-circuited during this test: (IEC 60335-2-24:2010)	100'000	NA
	- thermostats which control the motor-compressor: (IEC 60335-2-24:2010)	100'000	P
	- motor-compressor starting relays: (IEC 60335-2-24:2010)	100'000	NA
	- automatic thermal motor-protectors for motor-compressors of the hermetic and semi-hermetic type: (IEC 60335-2-24:2010)	the number of operations during the locked-rotor test (but minimum 2000)	NA
	- manual reset thermal motor-protectors for motor-compressors of the hermetic and semi-hermetic type: 50 (IEC 60335-2-24:2010)	50	NA
	- other automatic thermal motor-protectors: except for fan-motors (IEC 60335-2-24:2010)	2000	NA



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	- other manual test thermal motor protectors: (IEC 60335-2-24:2010)	30	NA
	- for pressure relief devices of the bursting disc type, three separate samples of the appropriate parts of the refrigeration system are tested and the bursting disc shall operate in the same way for each sample tested (IEC 60335-2-24:2010)	1	NA
	- electrical pressure relief devices for automatic operation: (IEC 60335-2-24:2010)	30'000	NA
	- electrical pressure relief devices for manual reset: (IEC 60335-2-24:2010)	300	NA
	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited		NA
	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D		NA
	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection declared for subclause 6.5.2 of IEC 60730-2-8 is IPX7		NA
	Electrical pressure relief devices shall comply with IEC 60730-2-6 and shall be of type 2B and type 2N, shall have a trip free mechanism of type 2E and the deviation and drift shall not exceed + 0%.		NA
24.1.5	Appliance couplers complying with IEC 60320-1		NA
	However, appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3		NA
	The relevant standard for interconnection couplers is IEC 60320-2-2		NA
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable		NA
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		NA
24.1.8	The relevant standard for thermal links is IEC 60691. Thermal links that do not comply with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19		NA



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24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance. They are also tested in accordance with Clause 17 of IEC 60730-1. Number of cycles of operations defined in 24.1.4		NA
24.2	No switches or automatic controls in flexible cords		P
	No devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		P
	No thermal cut-outs that can be reset by soldering		NA
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and having a contact separation in all poles, providing full disconnection under overvoltage category III conditions		NA
	Voltage selection switches used in appliances for camping or similar use shall have a contact separation in all poles that provide full disconnection from the supply under overvoltage category III conditions (IEC 60335-2-24:2010)		NA
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1		NA
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly		P
	Voltage across capacitors in series with a motor winding does not exceed 1,1 times rated voltage, when the appliance is supplied at 1,1 times rated voltage under minimum load	Test:482V, less than 450x1.1=495V	P
	For starting capacitors, the voltage across the capacitors shall not exceed 1,3 times the rated voltage of the capacitor at 1.1xU _n (IEC 60335-2-24:2010)	Test at 264V Required :585V Test:482V	P
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42V.		NA
	In addition, the motors are complying with the requirements of Annex I		NA
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770		NA
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set		NA



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24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure		P
	One or more of the following conditions are to be met		—
	- class P2 according to IEC 60252-1		P
	- housed within a metallic or ceramic enclosure		NA
	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm		NA
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E		NA
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10		NA
24.101	Lampholders shall be of the insulated type (IEC 60335-2-24:2010)		NA
24.102	The discharge capacity of the pressure relief device shall be such that it is able to release an adequate amount of refrigerant so that the pressure during the release of the refrigerant does not increase beyond the pressure setting of the pressure relief device even if the compressor is operating (IEC 60335-2-24:2010)		NA



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24.1	TABLE: Components					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity	
BS Plug	Hangzhou Hongshi Electrical Ltd	SW 238	13A 250V~	BS 1363-1: 2016 +A1: 2018	BSI KM 95288	
-alternative (BS Plug)	Ningbo Yunhuan Electronics Group Corp	Y006 ,Y006A	13A 250V~	BS 1363-1: 2016 +A1: 2018	BSI KM 45980	
-alternative (BS Plug)	Ningbo Xuanshi Electronics Co., Ltd	JL-49, JL-50	13A 250V~	BS 1363-1: 2016 +A1: 2018	BSI KM 548251	
-alternative	Cixi Lujie Electric Applianc Co., Limited.	LJ01, LJ01A,	13A 250V~	BS 1363-1: 2016 +A1: 2018	BSI KM 69196	
-alternative (only for BS)	Yuyao Yunbiao Electronics Co., Ltd	YB006,YB006A	13A 250V~	BS 1363-1: 2016 +A1: 2018	BSI KM 73093	
-alternative (only for BS)	Interchangeable	--	AC 250V, 13A	BS 1363-1: 2016 +A1: 2018	BSI or ASTA Recognized	
<p>Description: Interchangeability based on standardized dimensions and specified rating</p> <p>BS plug must fitted with approved fuse-links having a rating appropriate to the cord fitted in accordance with table 2 of 1363-1.</p>						
Plug	Ningbo Xuanshi Electrical Appliance Co.Ltd.	JL-3	AC 250V, 16A	DIN VDE 0620- 1 (VDE 0620- 1):2010-02	VDE 40005909	
-alternative	Ningbo Qiaopu Electric Co., Ltd	D03	AC 250V, 16A,	DIN VDE 0620- 1 (VDE 0620- 1):2010-02	VDE 40002872	



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-alternative	Shangyu Jintao Electron Co.,Ltd	JT003	AC 250V,16A	DIN VDE 0620-1 (VDE 0620-1):2010-02	VDE 40021286
-alternative	Yuyao Jiaming Electric Appliance Co., Ltd.	JM-003A	AC 250V,16A	DIN VDE 0620-1 (VDE 0620-1):2010-02	VDE 40032558
-alternative	Ningbo Yuxin Electrical Appliance Co., Ltd.	YX03	AC 250V,16A	DIN VDE 0620-1 (VDE 0620-1):2010-02	VDE 40021450
-alternative	Yuyao Haidebao Electrical Appliance Co., Ltd	HDB-03	AC 250V,16A	DIN VDE 0620-1 (VDE 0620-1):2010-02	VDE 40034846
-alternative	Yuyao Yuxiang Electric Appliances Co., Ltd	YXD-03B	AC 250V, 16A,	DIN VDE 0620-1 (VDE 0620-1):2010-02	VDE 40010272
-alternative	Ningbo Liansheng Wire & Cable Co., Ltd.	LS03	AC 250V, 16A,	DIN VDE 0620-1 (VDE 0620-1):2010-02	VDE 40034732
-alternative	Interchangeable	--	AC 250V, 16A	VDE 0620-1	VDE Recognized
Description: Interchangeability based on standardized dimensions and specified rating					
Power cord	Ningbo Xuanshi Electronics Co., Ltd	H05VV-F	3X 0,75mm2	EN 50525-2-11:2011	VDE 40011761
-alternative	Yuyao Yuxiang Electric Appliances Co., Ltd.	H05VV-F	3X 0,75mm2	EN 50525-2-11:2011	VDE 40005361



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Alternative	Yuyao Jiaming Electric Appliance Co., Ltd.	H05VV-F	3X 0,75mm ²	EN 50525-2-11:2011	VDE 40029177
-alternative	Zhejiang Shuangyang Group Co., Ltd.	H05VV-F	3X 0,75mm ²	EN 50525-2-11:2011	VDE 133506
-alternative	Ningbo Qiaopu Electric Co., Ltd	H05VV-F	3X 0,75mm ²	EN 50525-2-11:2011	VDE 40035976
-alternative	Shangyu Jintao Electron Co.,Ltd	H05VV-F	3X 0,75mm ²	EN 50525-2-11:2011	VDE 40013419
-alternative	Yuyao Haidebao Electrical Appliance Co., Ltd.	H05VV-F	3X 0,75mm ²	EN 50525-2-11:2011	VDE 40034583
-alternative	Ningbo Yuxin Electrical Appliance Co., Ltd.	H05VV-F	3X 0,75mm ²	EN 50525-2-11:2011	VDE 40010786
-alternative	Ningbo Liansheng Wire & Cable Co., Ltd.	H05VV-F	3G 0,75mm²	EN 50525-2-11:2011	VDE 40022054
-alternative	Interchangeable	H05VV-F	3G 0,75mm ²	EN 50525-2-11:2011	VDE Recognized
Description: Interchangeability based on standardized dimensions and specified rating					
Interconnection cord	Ningbo Xuanshi Electronics Co. Ltd.	H05VV-F	3x 0,75 mm ² for thermostat and compressor	EN 60335-1 EN 60335-2-24	Test with appliance
Alternative	Shangyu Jintao Electron Co., Ltd.	H05VV-F	3x 0,75 mm ² for thermostat and compressor	EN 60335-1 EN 60335-2-24	Test with appliance
Alternative	Yuyao Jiaming Electric Appliance Co., Ltd.	H05VV-F	3x 0,75 mm ² for thermostat and compressor	EN 60335-1 EN 60335-2-24	Test with appliance



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Alternative	Ningbo Yuxin Electrical Appliance Co., Ltd.	H05VV-F	3x 0,75 mm ² for thermostat and compressor	EN 60335-1 EN 60335-2-24	Test with appliance
Alternative	Yuyao Yuxiang Electric Appliances Co., Ltd.	H05VV-F	3x 0,75 mm ² for thermostat and compressor	EN 60335-1 EN 60335-2-24	Test with appliance
Alternative	Ningbo Qiaopu Electric Co., Ltd	H05VV-F	3x 0,75 mm ² for thermostat and compressor	EN 60335-1 EN 60335-2-24	Test with appliance
Alternative	Yuyao Haidebao Electrical Appliance Co., Ltd	H05VV-F	3x 0,75 mm ² for thermostat and compressor	EN 60335-1 EN 60335-2-24	Test with appliance
Alternative	Ningbo Liansheng Wire & Cable Co., Ltd.	H05VV-F	3x 0,75 mm² for thermostat and compressor	EN 60335-1 EN 60335-2-24	Test with appliance
Internal wire	Cixi Haosheng Wire & Cable Co., Ltd.	H05V-U H05V-K	1x0,5 mm ² 1x0,75 mm ² 1x1,0 mm ²	DIN EN 50525-2-41 (VDE 0255-525-2-41)	VDE 40021089
Alternative	Xiangshan Haoguang Electric Wire&Cable Co.Ltd.	H05V-U H05V-K	1x0,5 mm ² 1x0,75 mm ² 1x1,0 mm ²	DIN EN 50525-2-41 (VDE 0255-525-2-41)	VDE 126062
Alternative	Ningbo Yuxin Electrical Appliance Co., Ltd.	H05V-U H05V-K	1x0,5 mm ² 1x0,75 mm ² 1x1,0 mm ²	DIN EN 50525-2-41 (VDE 0255-525-2-41)	VDE 40024297
Insulation tube	Wenzhou Hongxin Plastic Co., Ltd.	HXT-600	600 V, 105°C, VW-1	EN 60335-1 EN 60335-2-24	UL E305314 + tested with appliance
Alt	Wenzhou Hongxin Plastic Co., Ltd.	HXT-300	300 V, 105 °C, VW-1	EN 60335-1 EN 60335-2-24	UL E305314 + tested with appliance



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Alt	Shenzhen Woer Heat-Shrinkable Material Co., Ltd	RSFR RSFR-H RSFR-HPF	600 V, 125 °C, VW-1	EN 60335-1 EN 60335-2-24	UL E203950 + tested with appliance
Motor compressor	Hangzhou Qianjiang Refrigeration Group Co., Ltd.	QD52YV	220-240 V~, 50 Hz, R600a	EN 60335-1 EN 60335-2-34	VDE 40026344
Capacitor	Anhui Ning Guo Yuhua Electrical Co. Ltd.	CBB65	450V,3uF,P2, T85	EN 60252-1	VDE 40024267
Alternative	Anhui Feida Industry Stock Co.,Ltd.	CBB65A-2	450V,3uF,P2, T85	EN 60252-1	VDE 40015353
Alternative	YUYAO FANUODI ELECTRIC CO., LTD.	CBB65A-1	450V,3uF,P2, T85	EN 60252-1	TUV R 50107802
Alternative	Anhui Juan Kuang Electric Co.,Ltd.	MPP/CBB65	450V,3uF,P2, T85	EN 60252-1	VDE 40024852
Alternative	Anhui Xinyang Electronics Co.,Ltd.	CBB65D	450V,3uF,P2, T85	EN 60252-1	VDE 40025247
Thermostat	Jiujiang Hengtong Autocontrol Device Co. Ltd.	WDF	250 V~, 5(4) A, 1E5, T70	EN 60730-1 EN 60730-2-9 IEC 60079-15	VDE 134611 CNEEx13.4305X
-alternative	Changzhou Thermoster Electrical Appliance Co., Ltd.	WPFE	250 V~, 6(4) A, 2E5, T70	EN 60730-1 EN 60730-2-9 IEC 60079-15	VDE 40024527 CNEEx13.0201X
-alternative	Yuyao Mingtong Electric Appliance Co., Ltd.	W-L	250 V~, 6(6) A, - 25T65, 1E5	EN 60730-1 EN 60730-2-9 IEC 60079-15	TUV R 50230252 CNEEx11.0414X



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Alt.	Changzhou Kangao Electronic Appliance Co, Ltd	WPF**(-L)	250V~ ; 6A - 50/60Hz - μ 100000	IEC 60730-1 IEC 60730-2-9 EN 60079-0: 2012 +A11:2013 EN 60079-1:2014	ENEC_1070 CNEx18.0151X
Alt.	Changzhou Kangao Electronic Appliance Co, Ltd	WDF** (-L)	250V~ ; 6A - 50/60Hz - μ 100000	IEC 60730-1 IEC 60730-2-9 EN 60079-0: 2012 +A11:2013 EN 60079-1:2014	ENEC_1071 CNEx18.0151X
Alt.	Changzhou Huishang Electric Co., Ltd.	WD****-L**	250V~ ; 6(4)A - 50/60Hz - μ 100000	IEC 60730-1 IEC 60730-2-9 EN 60079-0: 2012 +A11:2013 EN 60079-1:2014	VDE 40025657
Alt.	Changzhou Huishang Electric Co., Ltd.	WP****-L**	250V~ ; 6(4)A - 50/60Hz - μ 100000	IEC 60730-1 IEC 60730-2-9 EN 60079-0: 2012 +A11:2013 EN 60079-1:2014	VDE 40025657
Black sleeve	SUZHOU HUANENG SHRINKABLE MATERIAL CO LTD	ZRG	Max Temp C 125 Max V 600	EN 60335-1 EN 60335-2-24	Test with appliance UL E210401
-alternative	DONGGUAN SALIPT CO.,LTD	SALIPT S-901-600	Max Temp C 125 Max V 600	EN 60335-1 EN 60335-2-24	Test with appliance UL E209436
Wire connector(Alt)	SHENZHEN HONGYU ELECTRICAL CO LTD	HY-CE2X HY-CE2	UL E314734	EN 60335-1 EN 60335-2-24	Test with appliance
-alternative	Heavy Power Co., Ltd.	CE2	UL E113650	IEC/EN 60335-1 IEC/EN 60335-2-24	Test with appliance

1) An asterisk indicates a mark which assures the agreed level of surveillance

LCIE CHINA

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TEST REPORT IEC 60335-1:2010 & IEC 60335-2-24:2010



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EN 60335-1:2012/A1:2019+ A14: 2019+A2: 2019, BS EN 60335-1:2012/A1:2019+ A14: 2019+A2: 2019

6.1	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part		NA
7.1	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth		NA
	Symbol IEC 60417-5180, for class III appliances, unless		NA
	the appliance is operated by batteries only, or		NA
	for appliances powered by rechargeable batteries recharged in the appliance		NA
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible		NA
	Requirement met if frequent changes are not required and the rated voltage or rated frequency to which the appliance is to be adjusted is determined from a wiring diagram		NA
7.6	Correct symbols used		P
7.8	Marking of functional earthing terminals (symbol IEC 60417-5018)		NA
7.10	A push-push button switch used for start and stop the operation shall not be used for other functions such as changing the motor speed.		NA
	For hand-held appliances with rated power input 50 W or lower it is acceptable to have a push-push button for different functions including on / off if there is an immediate feedback to the user e.g. by tactile feedback or audible and visible feedback.		NA
	Where a push button can cycle through various modes during a prolonged push this is allowed as long as the appliance will switch off with a single short push action.		NA
	Audible feedback is any audible response got immediately after the operation of the switch.		P
	The click of a switch can be accepted as an audible feedback provided that it is originated inside the switch that is operated and can be heard at a distance of 77 cm from the switch.		P
	The sound of the motor is regarded as an audible feedback.		P



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	Add the following text after the third paragraph of the addition: Constructions with switches that have two different stable positions (meaning that it can be seen or felt when they have been pressed or rotated) are considered to have a tactile feedback		P
7.12	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated..... :		NA
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only		NA
7.12.1	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance		NA
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance		P
	These instructions may be supplied with the appliance separately from any functional use booklet		P
	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches		P
	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD		P
7.14	Markings clearly legible and durable:		P
	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified..... :		P
	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm :		P
	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless		P
	contrasting colours are used		P
	Markings checked by inspection, measurement and rubbing test as specified		P
7.15	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180		NA
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



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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		NA
	For a single switching action obtained by a switching device, requirements as specified		NA
	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug		NA
10.1	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		NA
	Otherwise the power input is the arithmetic mean value		NA
10.2	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period		NA
	Otherwise the current is the arithmetic mean value		P
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	:	P
13.2	The leakage current including Class II construction is measured by means of the circuit described in Figure 4 of IEC 60990:1999		P
	For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter		P
	Leakage current measurements..... :		P
15.2	Spillage of liquid does not affect the electrical insulation		NA
	Spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent		NA
	Appliances with type X attachment fitted with a flexible cord as described		NA
	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable		NA



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	Detachable parts are removed		NA
	Overfilling test with additional amount of the solution, over a period of 1 min (l)		NA
	The appliance withstands the electric strength test of 16.3		NA
	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29		NA
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)		P
	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V).....		NA
	Leakage current measurements including Class II Construction	(see appended table)	P
19.1	If the control performs more than one function, only that aspect of the control under consideration is rendered inoperative.		P
	Other functions of the control may continue to operate normally.		P
19.7	Test repeated with capacitors short-circuited one at a time, unless		NA
	the capacitor is of class S2 or S3 of IEC 60252-1		NA
	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit		NA
19.11.3	If the appliance incorporates a protective electronic circuit that operates to ensure compliance with clause 19, the appliance is tested as specified		NA
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified		NA
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified		NA
	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode		NA
	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling		NA
	Earthed heating elements in class I appliances disconnected		NA



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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		NA
22.5	No risk of electric shock when touching pins, for appliances having a capacitor with rated capacitance equal to or greater than 0,1 μ F, the appliance being disconnected from the supply at the instant of voltage peak		P
	Voltage not exceeding 34 V (V)..... :	<34V	P
	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied		NA
	The discharge test is then repeated three times, voltage not exceeding 34 V (V) :		NA
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard		P
	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard		P
	A choking hazard does not apply to appliances for commercial use		NA
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied		NA
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied		P
	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard		NA
	Other parts intended to be detached during use, maintenance or cleaning (e.g. batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers		P
22.17	The requirement is not applicable to built-in appliances		NA
22.32	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation		P
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



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22.35	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		P
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts have at least double insulation or reinforced insulation between live parts and the functionally earthed parts		NA
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless		NA
	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously		NA
22.55	Devices operated to stop the intended function of the appliance, if any, are distinguished from other manual devices by means of shape, size, surface texture or position		P
	The requirement concerning position does not preclude use of a push on push off switch		NA
	An indication when the device has been operated is given by:		-
	– tactile feedback from the actuator or from the appliance, or		NA
	– reduction in heat output; or		NA
	– audible and visible feedback		P
22.56	Detachable power supply part provided with the part of class III construction		NA
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in Annex T		NA
	This requirement does not apply to glass, ceramics or similar materials		NA
23.5	A single layer of internal wiring insulation does not provide reinforced insulation		P
24.1	Components comply with the safety requirements specified in the relevant EN standards as far as they reasonably apply		P
	Motors are not required to comply with EN 60034-1, but tested as part of the appliance according to this standard		NA
	Relays are tested as part of the appliance according to this standard		NA



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	Relays may be alternatively tested to EN 60730-1 and the additional requirements in EN 60335-1		NA
	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 tested and shown to comply with the resistance to fire requirements in the EN 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
	- the test report for the component states the values of t_e and t_i acc. 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		P
	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 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,		NA
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		NA



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	Lamp-holders and starter-holders that have not been tested and found to comply with the relevant EN 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		NA
	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		P
	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		P
	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		NA
	with connectors and appliance inlets complying with the standard sheets of EN 60320-1, if		NA
	direct supply to these parts from the supply mains gives rise to a hazard		P
	For plugs used in CENELEC countries Annex ZH applies		P
24.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16. Clause 26 of IEC 61558-1 and Annex H of IEC 61558-1 are not applicable.		NA
24.1.4	Thermal cut-outs of the capillary type comply with the requirements for type 2.K controls in IEC 60730-2-9		NA
24.1.5	However, for class II appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3		NA
24.8	The requirement is considered to be met - the capacitors are of class S2 or S3 according to IEC 60252-1.		P
24.Z1	Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1		P
25.1	supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance		P
	Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH		P



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25.7	Supply cords, other than for class III appliances, being one of the following types:		P
	- rubber sheathed (at least 60245 IEC 53)		NA
	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors, or		NA
	when they are liable to be exposed to significant amount of ultraviolet radiation		NA
	- polychloroprene sheathed (at least 60245 IEC 57)		NA
	- polyvinyl chloride sheathed. Not used if they are likely to touch metal parts having a temperature rise exceeding 75 K during the test of clause 11		NA
	<ul style="list-style-type: none"> light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg 		NA
	<ul style="list-style-type: none"> ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances 		P
	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords		NA
	<ul style="list-style-type: none"> heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg 		NA
	<ul style="list-style-type: none"> heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances 		NA
	- halogen-free, low smoke, thermoplastic insulated and sheathed		NA
	<ul style="list-style-type: none"> light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable 		NA
	<ul style="list-style-type: none"> Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f) for flat cable 		NA
	Supply cords for class III appliances adequately insulated		NA
	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts		NA
25.10	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue		NA
	Where additional neutral conductors are provided in the supply cord:		NA
	– other colours may be used for these additional neutral conductors;		NA



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	– all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445		NA
	– the supply cord is fitted to the appliance		NA
25.13	If it is not evident that the supply cord can be introduced without risk of damage, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided		NA
25.15	Pull and torque test of supply cord:		-
	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm)	100N; 0,35Nm	P
	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm).....		NA
	Cord not damaged and max. 2 mm displacement of the cord		P
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts		P
25.23	for class I or class II appliance with class III construction, the cross sectional areas of the conductors need not comply with 25.8 if specified conditions are met		NA
25.25	Instead of IEC/TR 60083, dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are in accordance with the dimensions of the relevant plug standard		NA
	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH		P
27.1	Class 0, II and III appliances have no provision for protective earthing		P
	Class II appliances and class III appliances can incorporate an earth for functional purposes		NA
27.2	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		NA
27.3	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		NA
27.4	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		NA
27.5	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		NA



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27.6	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		NA
29.1	For appliances intended for use at altitudes exceeding 2 000 m, the clearances in Table 16 is increased according to the relevant multiplier values in Table A.2 of IEC 60664-1		NA
	Impulse voltage test is not applicable: to appliances intended for use at altitudes exceeding 2 000 m		NA
29.3	Compliance checked:		-
	- for insulation, other than single layer internal wiring insulation, by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3, and		P
	- by an assessment of the thermal quality of the material according to 29.3.3 combined with an electric strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or		NA
32	Compliance regarding electromagnetic fields is checked according to EN 62233		P
B	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE BATTERIES THAT ARE RECHARGED IN THE APPLIANCE		-
	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance		NA
	Three forms of construction covered:		-
	a) Appliance supplied directly from the supply mains or a renewable energy source, the battery charging circuitry and other supply unit circuitry incorporated within the appliance		NA
	b) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the part of the appliance containing the battery		NA
	c) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the detachable supply unit		NA
3.1.9	Appliance operated under the following conditions:		-



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	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2		NA
	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate		NA
	-if possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2		NA
	- if the appliance incorporates inductive coupling between two parts that are detachable from each other, the appliance is supplied from the supply mains with the detachable part removed		NA
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable		NA
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances		NA
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage (V) and polarity of the terminals :		NA
	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006		NA
	Appliances intending to be supplied from a detachable supply unit marked with symbol IEC 60417-6181 and its type reference along with symbol ISO 7000-0790 (2004-01), or		NA
	use only with <model designation> supply unit ... :		NA
7.6	Additional symbols		NA
7.12	The instructions give information regarding charging		NA
	Instructions for appliances incorporating batteries intended to be replaced by the user include required information		NA
	Instructions for appliances containing non user-replaceable batteries state the substance of the following:		-
	This appliance contains batteries that are only replaceable by skilled persons		NA
	Instructions for appliances containing non-replaceable batteries shall state the substance of the following:		-
	This appliance contains batteries that are non-replaceable		NA



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	For appliances intending to be supplied from a detachable supply unit for the purposes of recharging the battery, the type reference of the detachable supply unit is stated along with the following:	-
	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance	NA
	If the symbol for detachable supply unit is used, its meaning is explained	NA
7.15	Markings placed on the part of the appliance connected to the supply mains	NA
	The type reference of the detachable supply unit is placed in close proximity to the symbol	NA
8.2	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment	NA
	If the appliance can be operated without batteries, double or reinforced insulation required	NA
11.7	The battery is charged for the period stated in the instructions or 24 h	NA
11.8	Temperature rise of the battery surface does not exceed the limit in the battery manufacturer's specification; measured (K); limit (K)	NA
	If no limit specified, the temperature rise does not exceed 20 K; measured (K)	NA
19.1	Appliances subjected to tests of 19.B.101, 19.B.102 and 19.B.103	NA
19.10	Not applicable	NA
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	NA
19.B.102	For appliances having batteries that can be removed without the aid of a tool, short-circuit of the terminals of the battery, the battery being fully charged,	NA
19.B.103	Appliances having batteries replaceable by the user supplied at rated voltage under normal operation with the battery removed or in any position allowed by the construction	NA
19.13	The battery does not rupture or ignite	NA
21.B.101	Appliances having pins for insertion into socket-outlets have adequate mechanical strength	NA
	Part of the appliance incorporating the pins subjected to the free fall test, procedure 2, of IEC 60068-2-31, the number of falls being:	-



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	- 100, if the mass of the part does not exceed 250 g (g)		NA
	- 50, if the mass of the part exceeds 250 g.....		NA
	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met		NA
22.3	Appliances having pins for insertion into socket-outlets tested as fully assembled as possible		NA
25.13	An additional lining or bushing not required for interconnection cords in class III appliances or class III constructions operating at safety extra-low voltage not containing live parts		NA
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies		NA
	For other parts, 30.2.2 applies		NA
H	ANNEX H (NORMATIVE) SWITCHES		NA
20	Clearances, creepage distances, solid insulation and coatings of rigid printed board assemblies		NA
	Clause 20 is applicable to clearances across full disconnection and micro-disconnection		NA
	It is also applicable to creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in Table 24		NA
P	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN TROPICAL CLIMATES		NA
	Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332		NA
	Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332, if liable to be connected to a supply mains that excludes the protective earthing conductor		NA
5.7	The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C		NA
7.1	The appliance marked with symbol IEC 60417-6332		NA



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7.12	The instructions state that the appliance is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA		NA
	The instructions state that the appliance is considered to be suitable for use in countries having a tropical climate, but may also be used in other countries		NA
	If symbol IEC 60417-6332 is used, its meaning is explained		NA
S	ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED BY BATTERIES THAT ARE NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE		NA
	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or		NA
	rechargeable batteries (secondary batteries) that are not recharged in the appliance		NA
5.8.1	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied		NA
5.S.101	Appliances intended for use with a battery box are tested with the battery box supplied with the appliance or with the battery box recommended in the instructions		NA
5.S.102	Appliances are tested as motor-operated appliances.		NA
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless		NA
	the polarity is irrelevant		NA
	Appliances also marked with:		-
	– name, trade mark or identification mark of the manufacturer or responsible vendor		NA
	– model or type reference		NA
	– IP number according to degree of protection against ingress of water, other than IPX0..		NA
	– type reference of battery or batteries.....		NA
	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006		NA
	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries		NA



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7.6	Additional symbols		NA
7.12	The instructions contain the following, as applicable:		-
	– the types of batteries that may be used :		NA
	– how to remove and insert the batteries		NA
	– non-rechargeable batteries are not to be recharged		NA
	– rechargeable batteries are to be removed from the appliance before being charged		NA
	– different types of batteries or new and used batteries are not to be mixed		NA
	– batteries are to be inserted with the correct polarity		NA
	– exhausted batteries are to be removed from the appliance and safely disposed of		NA
	– if the appliance is to be stored unused for a long period, the batteries are removed		NA
	– the supply terminals are not to be short-circuited		NA
11.5	Appliances are supplied with the most unfavourable supply voltage between		-
	– 0,55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries		NA
	– 0,75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only		NA
	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account		NA
19.1	The tests are carried out with the battery fully charged unless otherwise specified		NA
19.13	The battery does not rupture or ignite		NA
19.S.101	Appliances are supplied with the voltage specified in 11.5. The supply terminals having an indication of polarity are connected to the opposite polarity, unless		NA
	such a connection is unlikely to occur due to the construction of the appliance		NA
19.S.102	For appliances with provision for multiple batteries, one or more of the batteries are reversed and the appliance is operated, if reversal of batteries is allowed by the construction		NA



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25.5	The flexible leads or flexible cord used to connect an external battery or battery box in is connected to the appliance by a type X attachment		NA
25.13	This requirement is not applicable to the flexible leads or flexible cord connecting external batteries or a battery box with an appliance		NA
25.S.101	Appliances have suitable means for connection of the battery. If the type of battery is marked on the appliance, the means of connection is suitable for this type of battery		NA
26.5	Terminal devices in an appliance for the connection of the flexible leads or flexible cord connecting an external battery or battery box are so located or shielded that there is no risk of accidental connection between supply terminals		NA
30.2.3.2	There is no battery in the area of the vertical cylinder used for the consequential needle flame test, unless		NA
	the battery is shielded by a barrier that meets the needle flame test of Annex E, or		NA
	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		NA
T	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC MATERIALS		-
	Requirements for non-metallic materials subject to direct or reflected UV-C radiation exposure and whose mechanical and electrical properties are relied upon for compliance with the		NA
	Does not apply to glass, ceramic and similar materials		NA
	Tested as specified in ISO 4892-1 and ISO 4892-2, with the following modifications:		-
	Modifications to ISO 4892-1:		-
5.1.6	The UV-C emitter is a low pressure mercury lamp with a quartz envelope having a continuous spectral irradiance of 10 W/m ² at 254 nm		NA
	Subclause 5.1.6.1 and Table 1 are not applicable		NA
5.2.4	The black-panel temperature shall be 63 °C +/- 3 °C		NA
5.3.1	Humidification of the chamber air is specified in part 2 when necessary		NA
9	This clause is not applicable		NA
	Modifications to ISO 4892-2:		-
7.1	At least three test specimens are tested		NA



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	Ten samples of internal wiring is tested		NA
7.2	The specimens are attached to the specimen holders such that they are not subject to any stress		NA
7.3	Apparatus prepared as specified		NA
	The test specimens and, if used, the irradiance-measuring instrument are exposed for 1 000 h		NA
7.4	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen		NA
7.5	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1		NA
	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2		NA
8	This clause is not applicable		NA

A	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS (EN)		-
	Denmark, Sweden, Norway and Finland		NA
7.12.8	The maximum inlet water pressure is at least 1,0 MPa		NA
	Denmark		NA
22.47	The maximum inlet water pressure is at least 1,0 MPa		NA
	Ireland and United Kingdom		NA
25.8	In the table, the line >10 A and ≤16 A is replaced with:		
	> 10 and ≤ 13 1,25 (1,0) ^b		NA
	> 13 and ≤ 16 1,5 (1,0) ^b		NA
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		-
	Ireland		NA



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25.1 and 25.25	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		NA
	United Kingdom		
25.1 and 25.25	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		NA
	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		NA
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS		-
	List of IEC and CENELEC code designations for flexible cords		NA
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)..... :		P
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:		-
	- for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4 :		P
	- for class II appliances, standard sheet EU5, EU6 or EU7..... :		NA



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	There are exemptions or differences in certain CENELEC countries		P
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

EN 60335-2-24:2010/A11:2020 BS EN 60335-2-24:2010/A11:2020			
	Modification to Annex ZZA		--
	Replace Table ZZA.1 by the following: Table ZZA.1 – Correspondence between this European Standard and Annex I of Directive 2014/35/EU [2014 OJ L96]		P
	Modification to Annex ZC		
	Delete Annex ZC of EN 60335-2-24:2010, delete Annex ZC of EN 60335-2-24:2010/A1:2019, delete Annex ZC of EN 60335-2-24:2010/A2:2019 and insert the following replacement:		P

BS EN 60335-2-24:2010 BS EN 60335-1:2012 and BS EN 62233:2008			
6.1	Delete “class 0” and “class 01”		P
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		NA
7.10	Devices used to start/stop operational functions of the appliance distinguished from other manual devices by means of shape, size, surface texture, position, etc.		P
	An indication that the device has been operated is given by:		—
	• a tactile feedback, or		P
	• an audible and visual feedback		NA
7.12	An indication that the device has been operated is given by:		—



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	- this appliance can be used by children aged from 8 years and above and 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
	- cleaning and user maintenance shall not be made by children without supervision		P
7.12.Z1	The specific instructions related to the safe operation of this appliance is collated together in the front section of the user instructions		P
	The height of the characters, measured on the capital letters, is at least 3 mm		P
	These instructions are also available in an alternative format, e.g. on a website		P
8.1.1	Also test probe 18 of EN 61032 is applied		P
	The appliance being in every possible position during the test		P
	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
8.2	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		NA
11.8	Footnotes to “External enclosure of motor-operated appliances” to be taken into account		P
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		NA
20.2	When using the test probe similar to test probe B with a circular stop face, the accessories and detachable covers are removed		NA
	Test probe 18 applied with a force of 2,5N on the appliance fully assembled		NA



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24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply		P
	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance.		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 previously tested or do not comply with the standard for the relevant component are tested according to the requirements of 30.2		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
	- the test report for the component states whether it complied with the standard for the relevant component with or without flame, flames not exceeding 2 s during the test are ignored		P
	Unless components have been previously tested and found to comply with the relevant 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 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 standard, and		P
	components that are not marked or not used in accordance with their marking,		NA
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		NA
	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 standard under the conditions occurring in the appliance		NA



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	Where the relevant standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used		NA
	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		NA
	with connectors and appliance inlets complying with the standard sheets of IEC 60320-1,		NA
	if direct supply to these parts from the supply mains gives rise to a hazard		NA
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 EN 41003		NA
	Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003		NA
24.Z1	For motor running capacitors (IEC 60252-1 type P2) 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		NA
25.6	Supply cords of single-phase portable appliances having a rated current not exceeding 16 A, fitted with a plug complying with the following standard sheets of IEC/TR 60083:		—
	- for Class I appliances: standard sheet C2b, C3b or C4		P
	- for Class II appliances: standard sheet C5 or C6		NA
25.7	Their properties shall be at least those of ordinary tough rubber sheathed cords (60245IEC53). Not for outdoors or for ultraviolet radiation		NA
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		NA
32	Compliance regarding electromagnetic fields is checked according to EN 50366 or EN 62233		P



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Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified		NA
	The duration of the test is as specified in 19.7		NA
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS		--
	Norway		--
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		NA
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		NA
	All CENELEC countries		P
25.6 and 25.25	Information concerning National plug and socket-outlets is available from the CENELEC website. Normative national requirements concerning plug and socket-outlets are shown in the relevant National standard		P
	Ireland and United Kingdom		NA
25.8	In the table, the lines for 10 A and 16 A are replaced by:		
	> 10 and ≤ 13 1,25		NA
	> 13 and ≤ 16 1,5		NA
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		NA
	Ireland		NA
25.6	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		NA



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	United Kingdom		--
25.6	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. It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		P
ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		
	A list of referenced documents in this standard		P
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		
	Specific additional requirements for appliances and machines intended for commercial use.		NA
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)		P



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ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES		
	The following modifications to this standard apply to appliances having UV emitters		NA
	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		NA
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		NA
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant		NA
ZZ	ANNEX ZZ (INFORMATIVE) COVERAGE OF ESSENTIAL REQUIREMENTS OF EC DIRECTIVES		
	Description of the relation between this European standard and the LVD (Low Voltage Directive, 2006/95/EC) and the MD (Machinery Directive, 2006/42/EC)		P

IEC60335-2-24N - ATTACHMENT BS EN 62233:2008			
Clause	Requirement + Test	Result - Remark	Verdict
EMF- ELECTROMAGNETICS FIELDS			
	The tested product also complies with the requirements of BS EN 62233:2008		—
	Limit 100%	Measured max.:2,510%	P

BS EN 60335-1:2012/A11:2014			
Clause	Requirement – Test	Result - Remark	Verdict
7	Marking and instructions		--
7.14	In NOTE Z1, replace "IEC 82079-1" by "EN 82079-1".		P

BS EN 60335-2-24:2010/A1:2019+A2:2019			
Clause	Requirement – Test	Result - Remark	Verdict
	and instructions		--
	Add the following paragraph after the third paragraph:		--
	Children aged from 3 to 8 years are allowed to load and unload refrigerating appliances		P



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7.Z101	Add the following new subclause:		--
	The instructions shall contain details on the use of the appliance to ensure the safe preservation of foodstuffs.		P
	Manufacturers should give details on the most appropriate part in the compartment of the appliance where specific types of food shall be stored, considering the distribution of temperature that can be present in the different compartments of the appliance.		P
	The instructions shall include the substance of the following:		--
	To avoid contamination of food, please respect the following instructions:		P
	– Opening the door for long periods can cause a significant increase of the temperature in the compartments of the appliance.		P
	– Clean regularly surfaces that can come in contact with food and accessible drainage systems.		P
	– Clean water tanks if they have not been used for 48 h; flush the water system connected to a water supply if water has not been drawn for 5 days.		NA
	– Store raw meat and fish in suitable containers in the refrigerator, so that it is not in contact with or drip onto other food.		P
	– Two-star frozen-food compartments are suitable for storing pre-frozen food, storing or making ice cream and making ice cubes.		P
	– One-, two- and three-star compartments are not suitable for the freezing of fresh food.		P
	– If the refrigerating appliance is left empty for long periods, switch off, defrost, clean, dry, and leave the door open to prevent mould developing within the appliance.		P
22	Construction		--
22.40	Addition:		--
	Ice-cream appliances and ice-makers shall be fitted with an accessible switch to stop all functions of the appliance		NA
22.Z101	Drawers of refrigerating appliances that are provided with sliding devices shall be fitted with stops to prevent them inadvertently falling out.	No Drawers	NA
22.Z102	Appliances shall be constructed so that lubricants are prevented from polluting food compartments		NA



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22.Z104	All surfaces that can get in contact with food (including "splash areas") shall be durable, cleanable, without breaks, resistant to cracking, chipping, flaking and abrasion		P
NOTE 1	The splash area comprises surfaces on which part of the food can splash or flow during normal use, but this food does not become part of the product (e.g. ice-cream).		NA
	All other surfaces shall be durable and cleanable.		P
	Internal angles, seams and corners that can get in contact with food shall be effectively cleanable.		P
	Joints that can get in contact with food shall be sealed and hygienic.		P
22.Z105	Any internal water dispensing system shall be		NA
	– accessible for cleaning; or		NA
	– designed to permit manual cleaning or flushing with water or other appropriate liquid in accordance with the manufacturer's instructions.		NA
	The above requirements are not applicable to self-cleaning systems or chemical dosing systems.		NA
32	Radiation, toxicity and similar hazards		--
	This clause of Part 1 is applicable		P