			r electrical a		0 7 0 .0
EN60335- Pa	articular requ	SF	Nr.	Nr.	V20 - C
MEAS	UREME	NT ANC	TEST F	REPOR	T HURTU
JieYang	City Mai	st Plasti	c Produc	cts Co.,I	_td.
ian Society, Tangl	Pu Village, Fe	engMei Offic	e, Airport Ec	onomic Are	a, JieYang
		+>-			47.
Model: XH-30 ⁷ XH-402R, XH-4(XH-802R, X XH-1201R, XH	03R, XH-501 H-803R, XH- H-1202R, XH	R, XH-502R 901R, XH-9	, XH-601R, 2 02R, XH-100 -1302R, XH-	(H-602R, X)1R, XH-10	H-801R, 02R,
		,	2021	÷.	*
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This Report Co ⊠ Original Rep	ncerns:	ecember 2,	2021	e:+10,-10	ruperu Luperu
	ncerns:	ecember 2,	2021 ipment Typ	e:HUAN	HURNU HURNU
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Original Rep	oncerns:	ecember 2, Equ Air I	2021 ipment Typ	e:rurau rurau	HUANU HUANU
Original Rep	oncerns: Dort Eric / HY21LR-0	ecember 2, Equ Air I	2021 ipment Typ leater	e:ruanu ruanu	LUNANU LUNANU LUNANU
Original Rep Test Engineer: Report Number: Test Date:	oncerns: Dort Eric / HY21LR-0 November	ecember 2, Equ Air I	2021 ipment Typ leater	Pe: HUANU HUANU	HURNU HURNU HURNU
Original Rep Test Engineer: Report Number:	oncerns: Dort Eric / HY21LR-0	ecember 2, Equ Air I	2021 ipment Typ leater		HURNU HURNU HURNU

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen HuaYu Test Technology Co.,Ltd.

2 2	12	22	42	42	-22	2
HUP HUP	HUM	TEST RE	PORT	HUM	HUM	HUR
EN60335-1	: 2012+A11:2	-	-	9+A2:2019+	A14:2019	
	ety of househ					, ,
A A A A A A A A A A A A A A A A A A A	N60335-2-30: Particular ı		1ts for room			F
the the			~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-HV	LY C
Report					UR AF AN	
Report reference No.	: HY21LR-0	035. 20	, FN	TEST	NO UP GERTIS	ET S
the the			HD.			42
Tested by (signature)	: Eric /			一首		
Reviewed by (+signature)	: Terry /	FU	2001	Territ		, EN
Date of issue	: December	r 2, 2021	LID.	- AN	HORIZED	LAND .
Testing laboratory						
Name 2	: Shenzher	n HuaYu Tes	t Technology C	CoLtd.	-20	20
Address		. Nr	Building 1, Deta		ark, Huarong R	load No.
× •			onghua New Di			
Test location	: Same as a	above	2			
Client	AURT	wat	water	WAT	WAT	AUR
Name	JieYang (City Maist Pla	astic Products	Co.,Ltd.	Χ.	Χ.
Address	JingLian S JieYang C		Pu Village, Fen	gMei Office, A	irport Economic	Area,
Test specification	40.	140.	1-1 ¹ .	40.	42	42.
Standard	_ EN60335-	1: 2012+A11:	2014+A13:2017	'+A1:2019+A2	:2019+A14:201	9
\mathcal{O}	. EN60335-	2-30: 2009/A	11:2012+A1:202	20+A12:2020	2	2
Non-standard test method	: N.A.	JA	JAU	JA.	JAU	.JAC.
Test item	<	$\langle \cdot \rangle$	<	$\langle \rangle$	X	< <u></u>
Description	: Air Heater					
-U _U			I-301R, XH-302	R, XH-303R.)	KH-401R, XH-4	02R, XH-V
Model No.	403R, XH	-501R, XH-50	2R, XH-601R, 2	XH-602R, XH-	801R, XH-802	R, XH-
X . X .)2R, XH-1001R -1303R, XH-150			1202R, XH-
Power rating	: 220-240V	~ 50Hz 3000	W Max	\ \	10	_\)
Manufacturer	: JieYang (City Maist Pla	astic Products	Co.,Ltd.	NUR	NUR
Address	JingLian S		Pu Village, Fen	gMei Office, A	irport Economic	c Area,
Model difference	: , _>	10	5			_>
JF JF	SF	JF.	R	R	T	R

NAW

-22	_>	22	-22	_12	-22	22	1
HUM	HUM	HUM		0335-1 335-2-30	HUR	HUR	HUR
Clause		Requireme	ent – Test		Result – F	Remark	Verdict
0		_\`					
General rem	harks:		JF.		JF.		AC.
"(see remar the report.	k #)" refers to a	a remark appe	ended to	Note:	~	~	~
"(see appen	ded table)" ref	ers to a table	appended	All of test perf also represent	ormed on the t model XH-3	e model XH-30 010.	10, whic
to the report		LY C	-HC		-HD	-HC	-HV
decimal sep	ults presented	JAN	JAN STAL		ist of critical	components ns of the EUT	HURY
This report s	shall not be rep written approva			HURYU	HUATU	HURYU	- NA
Narking labe	I sample (for re	eference only)	HUAN	HUATU	HUATU	HUAN	HURY
HURNU	JAC	Air Heater Model:XH-30 ⁷ Ratings:220-2		2 3000W	HURTU	HUAN	HUR
23	43	LC JieYang City	Maist Plas	tic Products C	o.,Ltd. 🗸	NAW	4
HUAN	HUML	HOR	HUR	HOP	HOP	HUP	HUM
HURTU	HURNU	HURTU	HURN	HURNU	HURNU	HUAN	HURT
HURNU	UNU	WAND	JAN	WAN	WAN	VAN	HUAT
IN NUAN	Y NURTU	T UNANU	T NAW	r war	T NUATU	r war	NA
r.t.C	LR-003S	r 10	Page 2 of 40	- AC	L.L.	HV.	35 Report

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HURN

MACH	EN60335-1 EN60335-2-30	HUNN HUNN	"AUN
ause	Requirement – Test	Result – Remark	Verdict
4 🔊	GENERAL CONDITIONS FOR THE TESTS		P
4,11P	Tests performed according to CI.4, e.g. correct ambient temperature range, nature of supply, correct supply voltage, sequence of testing, most unfavourable position, etc.	Ambient temperature: 24.7 ℃ RH: 58	P
2		10 IV	
6 Sr	CLASSIFICATION	AC AC	P
6.1	Portable appliances shall be of class II or class III Stationary appliances shall be of class I, class II or class III	Portable appliance, class II	Ϋ́Ρ
6.2	Heaters intended for use in greenhouses or building sites shall be at least IPX4. Duct fans shall be at least IPX2. (EN60335-2-30: 2002).	heater	N-4
7	MARKING AND INSTRUCTIONS	1	P
7.1	Rated voltage/voltage range (V):	220-240Vac	P
3	Nature of supply or rated frequency/frequency range (Hz)	50Hz	P
F	Rated input (W) or rated current (A):	3000W	P
	Manufacturer's or responsible vendor's name, trademark or identification mark	JieYang City Maist Plastic Products Co.,Ltd.	Ϋ́Ρ
2	Model or type reference	XH-3010 🔊	P
F	Symbol for Class II, for Class II appliance only	ET F	P
- HU	IP number according to degree of protection against ingress of water, other than IPX0		Ň
7.2	Stationary appliances for multiple supplies shall be marked: "Warning: Before obtaining access to terminals, all supply circuits must be disconnected." This warning shall be placed in the vicinity of the terminal cover.	Portable appliance	N HUP
7.3	Marking of range of rated value:	220-240Vac Single- phase	Р
7.4	Appliance can be adjusted for different rate voltages, the voltage shall be discernible	AN AN	N
7.5	Marking with more than one rated voltage/rated voltage ranges	220-240Vac	P
7.6	Marking for upper and lower limits of rated input, if difference greater than 10%	Correct oumbolo	N
1.0	Correct symbols used	Correct symbols used	P
7.7	Correct connection diagram, fixed to the appliance	No connection diagram	Ň
7.8	Not for type Z attachment: Marking of terminals for the neutral conductor (N)		P N-
N'r	Marking of protective earthing terminals		Ň
7.9	Marking or placing of switches when operation Might cause a hazard	0 show Off position	Р
7.10	Indication of switches and regulating devices by use of figures, letters, or other visual means.	Use figures 0,1,2,3 represent different gear	P
LY.	The figure 0 indicates only OFF position, unless no	0 show Off position	Ϋ́Ρ

HUAN	EN60335-1 EN60335-2-30	HALL MALL	TAUL
ause	Requirement – Test	Result – Remark	Verdict
3	confusion with the OFF position.		
7.11	Indication for direction of adjustment of thermostats,	A A	P-
	regulating devices, etc.		
7.12	Instructions for safe use provided	See instruction manual	Р
2	If symbol 5641 of IEC 60417-1 is marked on the	portable heaters	P_
HUP	appliance, its meaning shall be explained. (EN60335-2- 30: 2002).	AUP HUP	ACH
7.12.1	Instruction sheet detailing special precautions necessary for installation	See instruction manual	P
13	If rollers or feet are supplied separately with the heater,	portable heaters	P-
HUP	the installation instructions shall state how they have to be fixed to the heater. (EN60335-2-30: 2002)	AUP HUP	HUP
7.12.2	Stationary appliance is not fitted with a supply cord and a plug, or with other means for disconnection from	Portable appliance	N
2	supply mains. ను ను	\sim \sim	
7.12.3	Insulation in contact with parts temperature rise	Not such parts used	N
HU	exceeding 50K, instruction shall state the fixed wiring appropriate temperature rating.		LHD.
7.12.4	Information for built-in	Not such appliance	N
	Dimensions of the space		N
AL	Dimensions and position of support	The The	N
42	Minimum distances between various parts and the surrounding structure		-> ^N
2	Minimum dimensions of ventilating openings and their correct arrangement.	1 ³ 1 ³	N
ACH	Connection of the appliance to the supply mains and the interconnection of any separate components	AUP HUP	N.
	Plug accessible after installation/appliance incorporates a switch		N
7.12.5	Replacement statement (type X attachment)	N N	N
.F	Replacement statement (type Y attachment)	.FF	P
19.	Replacement statement (type Z attachment)	N, N,	Ň
7.12.6	Caution in the instructions for heating appliances with a non-self-resetting thermal cut-out		N
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	Portable heater	N
7.12.8	Instructions for appliances connected to the water mains:	ADY HOP	N
	- max. inlet water pressure (Pa)		N
22	- min. inlet water pressure, if necessary (Pa)	72 72	N
HUM	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	AUT HUT	N
7.13	Instructions and other text required in official language	English language is used other language can be provided as required	P

NUAT	EN60335-1 EN60335-2-30	HUAN HUAN	HUNT
ause	Requirement – Test	Result – Remark	Verdict
7.14 N	Marking clearly legible and durable	The label is clearly legible after the rubbing test	P
	The height of symbol 5641 of IEC 60417-1 shall be at least 15 mm. The height of the words "Do not cover" shall be at least 3 mm. (EN60335-2-30: 2002)	No such appliance	N
7.15	Markings specified in 7.1 to 7.5 shall be on a main part	Marking label attached to top enclosure	R
L.	Marking in the appliance clearly Discernible from the outside	Marking label attached to top enclosure	P
1407	If necessary after removal of a cover mark clearly discernible	40, 410,	,×P
	For portable appliances remove or open this cover without the aid of a tool		Р
HURNO	For stationary appliances and fixed appliances the name or trade mark or identification mark and the model or type reference visible installed as in normal use	No such appliance	N_I
	Indications for switches and controls placed on or near these components, not on misleading part.	Near the switch	Р
HUAU	For heaters for mounting at high level, the indication of the different positions of switchesshall be visible from a distance of 1 m; The marking concerning covering shall be visible after the heater has been installed. It shall not	Has not been installed in a high level	N
UTAU.	be placed on the back of portable heaters; The marking concerning removable fireguards shall be visible before fitting the fireguard. (EN60335-2-30: 2002)	UNU UNU	JA
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	Fuse can't replace	× N
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		P
8.1	Adequate protection against accidental contact with live parts	FN FN	P P
8.1.1	All positions; detachable parts removed	No such appliance	Ň
	Remove lamps covers, protection against contact with live parts Use of test finger: no contact with live parts	Test finger can not contact live parts through openings	P
HUAN	Detachable fireguards are not removed if their removal requires the use of a tool, provided That the instructions state that the plug must be removed from the socket- outlet before cleaning the reflector, or the heater incorporates a switch having a contact separation in all	AUATU HUATU	P
CTAC.	poles that provides full disconnection under overvoltage category III conditions. (EN60335-2-30: 2002)	AT AT	A
8.1.2	Use of test pin: no contact with live parts		N N
8.1.3	Use of test probe: no contact with live parts of visible glowing heating elements	Use 41 type experiment core sampler	P
8.1.4	Accessible part not considered live if		N_
.SP		JF JF	J.

HUAN	EN60335-1 EN60335-2-30	MACH MACH	HUNAN
ause	Requirement – Test	Result – Remark	Verdict
42	Extra low a. c. voltage: peak values not exceeding 42.4V	and and	N
, ²	Extra low d. c. voltage: not exceeding 42.4V	, ¹	Ň
	or separated from live parts by protective impedance, d. c. current not exceeding 2 mA		N
,FN	or separated from live parts by protective impedance, a. c. peak value not exceeding 7 mA	AN AN	N
40	For voltages peak value over 42.4V up to and including 450V, the capacitance not exceed 0.1 μ F		Ň
-22	For voltages peak value over 150V up to and including 5KV, the capacitance not exceed 45 μ F	-1 ² -1 ²	N
8.1.5	Live parts protected at least by basic insulation before installation or assembly (checked by inspection and the test of 8.1.1)	Portable appliance	Ň
	Built – in appliances		N
5	Fixed appliances	12 IS	N
Ac.	Separate units	AC AC	N
8.2	Class II appliances and constructions		P
WAU	Adequately protected against accidental contact with basic insulation and metal parts separated form live parts with only basic insulation.	WATU WATU	P
10	POWER INPUT AND CURRENT	X. X.	P
10.1	Power input at rated voltage and normal operating temperature not deviating from rated input by more than shown in table; measured power input (W); rated input (W); deviation	see appended table 10.1	P
10.2	Marked with rated current, the current at normal Operating temperature not deviate from the rated current by more than shown in table: measured current at rated voltage under normal operation (A); rated current (A);deviation	AUPTU HUPTU	N
11	HEATING		Р
11.1	No excessive temperatures in normal use	See appended table	Р
11.2	Placing and mounting of appliance as described	AUP HUP	P
	Hand-held appliances are held in their normal position of use.		N
HURN	Built-in appliances are installed in accordance with the instructions for installation	AUG LIVAT	N-C
7	Appliances normally placed on a floor or table in use, are placed on the floor as near to the walls as possible		Р

Shenzhen HuaYu Test Technology Co,.Ltd.

HURN	EN60335-1 EN60335-2-30	HUNTO HUNTO	HURT
ause	Requirement – Test	Result – Remark	Verdict
HURN	Appliances normally fixed to a wall are fixed on one of the walls, as near to the other wall and to the floor or ceiling as is likely to occur in normal use, unless otherwise stated in the instructions for installation.	AUPTIN AUPTIN	N
HUAND	Appliances normally fixed to a ceiling are fixed to the ceiling as near to the other walls as is likely to occur in normal use, unless otherwise stated in the instructions for installation.	AUATU HUATU	N
-10	Other motor-operated appliances are positioned as follows:		N
HUP	Appliances normally placed on a floor or table in use. Are placed on a horizontal support.	HUP HUP	-N
	Appliances normally fixed to a wall are fixed to A vertical support;		N
UPIN	Appliances normally fixed to a ceiling are fixed underneath a horizontal support	JAN JAN	N_C
×~	Appliance incorporating heating elements are positioned as specified for motor-operated appliances		N
HURN	Portable fan heaters are placed with the back 150 mm from one of the walls and away from the other wall; (EN60335-2-30: 2002)	AURIN HURN	P-C
11.3 `	Temperature rises determined by thermocouples or resistance method	Determined by thermocouple method	P
HUP	The temperature rise of the felt pad is determined by means of thermocouples attached to small blackened disks of copper or brass, 15 mm in diameter and 1 mm thick. The disks are placed on the surface of the pad. (EN60335-2-30: 2002)	HUP HUP	N
11.4	Heating appliances are operated under normal operation at 1.15 times the rated power input.	Test voltage: 254Vac	PA
. F. W	If the temperature rise limits are exceeded in appliances incorporating motors, transformers or electronic circuits, and the power input is lower than the rated power input, the test is repeated with the appliance supplied at 1,06 times rated voltage. (EN60335-2-30: 2002)		N
11.5	Motor-operated appliances are operated under normal operation, supplied with the most unfavourable voltage between 0.94 times and 1.06 times the rated voltage	40°. 140°.	Ň
11.6 - N	Combined appliances are operated under normal operation, supplied with the most unfavourable voltage between 0.94 times and 1.06 times the rated voltage	0.94 times and1.06 times rated voltage are used	N_N HUP
*	Combined appliances are operated as heating appliances.(EN60335-2-30: 2002)	Not combined appliances	N
11.7 	Hand-held appliances are operated for 20 minutes. Other appliances are operated until steady conditions are established.	No such appliance	N

WACH	EN60335-1 EN60335-2-30	ANALL ANALL	TAUL
use	Requirement – Test	Result – Remark	Verdict
_>	Appliances are operated until steady conditions are		P
F	established. (EN60335-2-30: 2002)	F F	F
11.8	Protective devices do not operate		×Ρ
	Sealing compound not flowing out		N
HUAR	Temperature rise of parts which are in contact with skin or hair. Shall not exceed the limits specified for handles which are continuously held	See appended table 11	R -
2	Massage pads with heating elements, the limit specified for heating pads in IEC 967 apply	0 0	P
13,5	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OF	PERATING	P
13.1	Appliance is operated under normal operation For the duration specified in 11.7		Р
13.2	Leakage current measured by means of circuit Described in Annex G	See appended table 13.2	P
13.3	Electric strength test of insulation	See appended table 13.3	P
	No breakdown during the test		Р
15 🔊	MOISTURE RESISTANCE	2 2	P
15.1	Enclosure provides the degree of moisture protection according to classification of Appliance	AUR HUR	N
15.1.1	Appliance other than IPX0 subjected to test as specified	Y Y	N
15.1.2	Hand-held appliance turned continuously Through the most unfavourable positions during The test	10 10	N
HUP	Built-in appliance installed according to the manufacture's instruction	AUF HUF	N
2	Appliances normally used on floor or table are placed on a horizontal unperforated support having a diameter of twice the oscillating tube radius minus 15 cm		N
ACH	Appliances normally fixed to a wall are mounted as in normal use in the center of a wooden Board having specified dimension	AUP HUP	N.
15.2	Spillage of liquid does not affect the electrical insulation		N
	Overfilling test with additional amount of liquid		N
2	Withstand electric strength test specified in 16.3	12 IS	N
HUA	No trace of water on insulation which can result in a reduction of distances and clearances below values specified in 29.1	AUP HUP	N
15.3	Humidity treatment for 48h	48hrs,93%, 25.0℃	P
	Withstanding the test of CI.16		P-
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH	SF SF	P
16.1	No excessive leakage current and adequate insulation	See appended	P
10.1	and electric strength (tests 16.2 and 16.3)	table 16.1	
16.2	Single-phase appliances: test voltage 1.06 times rated		P
	voltage		

HUAN	EN60335-1 EN60335-2-30	HUAL HUAL	AUNT
ause	Requirement – Test	Result – Remark	Verdict
2	voltage divided by $\sqrt{3}$		-
ACCA	Leakage current measurements	N, N,	P
16.3	Electric strength tests according to table 7		Ň
	No breakdown during the tests		P
17	OVERLOAD PROTECTION OF TRANSFORMENTS AND A	ASSOCIATED	N
	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	No Transformer	~~N
IN AUX	Appliance supplied with 1.06 or 0.94 times rated voltage and the most unfavourable short-circuit or overload likely to occur in normal use applied	AUATO FURTO	N-C
2	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15K	42 42	N
HUR	Temperature of the winding not exceeding the. Value specified in table 6 temperature; type of Appliance; insulation class; measured Temperature(°C)	AUP HUP	N.
19	ABNORMAL OPERATION		P
19.1 U	The risk of fire or mechanical damage under abnormal or careless operation obviated	The risk of fire or mechanical damage under abnormal or careless operation obviated	HUAT
19.2 N	Test of appliance with heating elements with restricted heat dissipation; test voltage(V): power input of 0.85 times rated power input	Test voltage: 209Vac	P
19.3	Test of appliance with heating elements with restricted heat dissipation; test voltage(V): power input of 1.24 times rated power input	Test voltage: 266Vac	P
19.4 🖓	Test conditions as in CI.11, the power input being 1.15	Temperature fuse	P_
NUM	times rated power input, any control limiting the	Test voltage:	AUR
10.5	temperature during tests of CI.11to the sheath	254Vac	×
19.5	Test of 19.4 repeated with reversed polarity and the other end of the heating element connected to the sheath	No take tubular outer sheath	N
19.6	Appliances with PTC heating elements tested as specified. Supplied at rated voltage, establishing steady conditions, then the voltage increased in steps by 1.5	No PTC heating elements used	N
<	times rated voltage is reached or until the heating element ruptures		~
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque or locking moving parts	No motor	N
AN AN	Locked rotor, motor capacitors open circuited or short-circuited, if required	No capacitors	Ň
2	Appliances with timer or controller supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed	N N	N
		4 4	1 4

the start	EN60335-1 EN60335-2-30	what what	They want
ause	Requirement – Test	Result – Remark	Verdict
HUNT	person, massage pads, chairs and beds are operated until steady conditions are established. Other appliances are operated for 30 s	AURTU HURTU	HUAT
	Test period at rated voltage(s or min) or until Steady state conditions established		Р
HUAN	Winding temperatures not exceeding limiting Temperature; type of appliance; insulation class; measured temperature(°C)	AUATU HUATU	P
19.8	Three-phase motors operated at rated voltage with one phase disconnected		N
19.9	Running overload test	-12 -12	N-
19.10	Series motor operated at 1.3 times rated voltage for 1min	UT UT	N
19.10.1	Appliances incorporating a liquid container which has to be filled by user during normal use are supplied at rated voltage and operated without liquid	No liquid container provided	N
19.11 v	Electronic circuits, compliance checked by evaluation of the fault condition specified in 19.11.2 for all circuits or parts of circuits, unless they comply with the conditions specified in 19.11.1	No printboard	N
19.11.1	Before applying the fault conditions in 19.11.2, it is checked if circuits or parts of circuit meet both the following conditions;	JAN JAN	N
_L)	The electronic circuit is a low-power circuit, that is the maximum power at low-power points does not exceed 15W according to the tests specified		N
HUP	The protection against electric shock, fire hazard mechanical hazard or dangerous malfunction in other parts of the appliance does not rely on the correct functioning of the electronic circuit	AUP HUP	THE N
19.11.20 HUAT	Fault conditions applied one at a time, the appliance operated under conditions specified in CI.11,but supplied at rated voltage, the duration of the tests as specified:	Fault conditions applied one at a time, the appliance operated under conditions specified in CI.11, but supplied at rated voltage, the duration of the tests were recorded	N
- AN	a) short-circuit of creepage distances and clearances between live parts of different potential, if these distances are less than the values specified in 29.1, unless the relevant part is adequately encapsulated		× N
, JF	b)open circuit at the terminals of any component	JF JF	Ň
X	c)short-circuit of capacitors unless they comply with IEC 384-14 or 14.2 of IEC 65	Comply with IEC 384-14 or 14.2 of IEC 65	N
HUNTU	d)short-circuit of any two terminals of an electronic component, other than integrated circuit. This fault condition is not applied between the circuits of an	short-circuit of any two terminals of an	N

HURN	EN60335-1 EN60335-2-30	HURTO HURTO	"AUR
ause	Requirement – Test	Result – Remark	Verdict
4r C	optocoupler	electronic component	, F
- ¹ 20.	e)failure of traces in the diode mode f) failure of an integrated circuit		N N
	g) failure of an electronic power switching device	.) .)	
19.11.3	If the appliance incorporates a protective electronic circuit which operates to ensure compliance with clause 19, the relevant test is repeated with a single fault simulated, as indicated in a) to f) of 19.11.2	AUPT HUPT	AUNT
12	During and after each test the following is Checked	222	N-4
LAUP -	-the temperature rise of the windings do not exceed the values specified in table 6	AUF AUF	, N
WAW	-the appliance complies with conditions specified in 19.13	Appliance does not emit flames, metal, poisonous or ignitable gas in hazardous amounts	N
	- any current flowing though protective impedance not exceeding the limits specified in 8.14	·····	N
HURN	If a conductor of a printed board becomes open circuited, the appliance is considered to have withstood the particular test, provided all three of the following conditions are met:	AUAN HUAN	N
	-the material of the printed circuit board withstands the burning test of 20.1 of IEC 65		N
AUN	-any loosened conductor does not reduce the creepage distances or clearances between live part and accessible metal parts	loosened conductor does not reduce the creepage distances or clearances between live part and	N.
F	FU FU FU FU	accessible metal parts	F
LHD.	the appliance withstands the tests of 19.11.2 with open circuited conductor bridged	10 IN	Ň
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	No such appliance	N
42	a device that can be placed in the stand-by mode,	4 7 7	N-L
42	subjected to the tests of 19.11.4.1 to 19.11.4.7	49°, 49,	N
A.	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, except that	AN AN	N
-10	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.		Ň
19.11.4. 1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	AN AN	N
19.11.4.	The appliance is subjected to radiated fields in		Ň

TAUK .	EN60335-1 EN60335-2-30	HURN HURN	They want
ause	Requirement – Test	Result – Remark	Verdict
2 🔊	accordance with IEC 61000-4-3, test level 3		
19.11.4. 3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified	AUN HUN	N
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	NAW WAN	N
	Earthed heating elements in class I appliances disconnected	, , ,	N
19.11.4. 5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	ANT ANT	N
19.11.4. 6	The appliance is subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11		N
19.11.4.) 7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2	UPN UPN	N
19.11.4. 8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduces to a level such that the appliance ceases to respond or a programmable component cease to operate.		Ň
HUR	The appliance continues to operate normally or requires a manual operation to restart	AUP HUP	N
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 127, the test is repeated, measuring the current flowing through the fuse- link(A)	AUATU HUATU	N
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	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		Р
UT V	Enclosures not deformed to such an extent that compliance with CI.8is impaired	Enclosures not deformed	P
	If appliance still operable, shall complying with 20.2		P
4r Sr	Appliance, other that Class III, withstands the electric strength test of 16.3	Please refer to appended table 19.13	P
4107	-basic insulation: 1000	Please refer to appended table 19.13	,∧°P
	-supplementary insulation: 2750	10.10	P
19.101	Appliances are operated as specified in Clause 11 but the power input is 1,24 times rated power input. (EN60335-2-	NAN NAN	P

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They are	EN60335-1 EN60335-2-30	HURTU HURTU	"AUL
ause	Requirement – Test	Result – Remark	Verdict
_>	30: 2002)	- ² ²	4
HUP	All thermal controls that operate during the test of Clause 11 are short-circuited simultaneously. (EN60335-2- 30:2002)	AUP HUP	L'IL P
19.102	Circular and similar portable heaters that emit heat in several directions are placed as close as possible to one of the walls of the test corner and operated at 1,24 times rated power input. (EN60335-2-30: 2002)	Portable heaters	P
19.103 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Heaters are operated as specified in Clause 11 but with the appliance covered. This does not apply to. (EN60335- 2-30: 2002)	7	P
14. Dr	 heaters for mounting at high level, except those intended to be installed in wardrobes; 	⁴ ¹ ⁰ , ¹⁴ 0,	N.N.
	 visibly glowing radiant heaters; 		N
42	– Portable fan heaters.	-12 -12	N
19.104	Built-in heaters having air outlets in the floor, window-sill or similar locations are operated as specified in Clause 11 with the grilles covered. Thermal controls that operate during the test of Clause 11 are short-circuited. (EN60335-2-30:2002)	Portable heaters	N
19.105	Heaters having a liquid container that is intended to be filled by the user are operated as specified in Clause11 but with the container empty. (EN60335-2-30: 2002)	No liquid container	-N
19.106	Fan heaters and other heaters incorporating motors are operated as specified in Clause 11. However, the heater is supplied at rated voltage with the motor rotor locked. (EN60335-2-30:2002)	AUATU HUATU	N
19.107	Fan heaters having an enclosure substantially of non- metallic material are operated at their working voltage as specified in Clause 11 except that the motor is supplied separately at its working voltage. Thermal controls that operate during the test of Clause 11 are short-circuited. (EN60335-2-30:2002)	AUPTU HUPTU	N
19.108	Portable fan heaters are operated as specified in Clause 11. A rectangular sheet of paper is held against air inlets, without additional pressure. The paper has an area sufficient to cover the surface where air inlets are situated and is moved in any direction in order to restrict the airflow so that the most unfavourable conditions are established.(EN60335-2-30)	AUATU HUATU	N
19.109	Portable fan heaters are operated as specified in Clause 11, but placed so that the airflow is directed against one of the walls of the test corner. The heater is then moved as near as possible to the wall without the thermal cut-out operating. Thermal controls that operate during the test of Clause 11 are short-circuited. (EN60335-2-30:2002)	AUA HUNA	N
19.110	Portable visibly glowing radiant heaters are operated as specified in Clause 11 but placed so that the radiation is directed against one of the walls of the test corner. The heater is placed with the fireguard 500 mm from the wall	AURTU HURTU	P

A ACK	EN60335-1 EN60335-2-30	HUNT HUNT	AUNT
ause	Requirement – Test	Result – Remark	Verdict
LUP (U	and this distance is progressively increased so that the highest wall temperature is measured. (EN60335-2-30:2002)	NIATU UNATU	wat
19.111	Visibly glowing radiant heaters, other than heaters for mounting at high level, are operated as specified in Clause 11 but at rated power input. (EN60335-2-30:2002)		Р
19.112	Portable heaters are operated as specified in Clause 11 but placed on a soft-wood surface that is covered with a double layer of bleached cotton gauze having a specific mass of approximately 40 g/m2. The heater is then pushed so that it overturns in the most unfavourable position.(EN60335-2-30)	AUAT HUAT	PA
19.113	Fan heaters having an enclosure substantially of non- metallic material are operated as specified in Clause 11, except that all self-resetting thermal cut-outs and controls that operate during the test of Clause 11 are short- circuited and the fan motor is stalled.(EN60335-2-		, N
19.114	30:2002) A quantity of oil is drained from the container of oil-filled	No oil	N Y
25	radiators until the oil level is approximately 10 mm above the heating element. The container is then resealed and the appliance operated as specified in Clause 11 but at rated power input. (EN60335-2-30:2002)	22 22	4
20	STABLITY AND MECHANICAL HAZARDS		P
20.1	Adequate stability		N
HURN	Tilting test through an angle of 10° (appliance placed on an inclined plane/horizontal plane); appliance does not overturn	Appliance does not overturn	P
	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	Appliance does not overturn	Р
HURN	Possible heating test on overturned position; temperature rise does not exceed values shown in table 7	Appliance does not overturn	N
	Portable heaters shall have adequate stability. (EN60335-2-30:2002)	Appliance does not overturn	Р
20.2 U	Moving parts adequately arranged or enclosed as to provide protection against personal injury	No moving parts	N
HUAN	Protective enclosures, guards and similar parts are non- detachable	No moving parts	N
	Adequate mechanical strength and fixing of protective enclosures	<u> </u>	N
WAU	Self-resetting thermal cut-outs and over current protective devices not causing a hazard	No such components	N-

HACK	EN60335-1 EN60335-2-30	HURN HURN	AUNT
ause	Requirement – Test	Result – Remark	Verdict
UTAC	Not possible to touch dangerous moving parts with test finger	No moving parts	N
21	MECHANICAL STRENGTH		P
_2	Appliance has adequate mechanical strength and is constructed as to withstand rough handing	20 20	P
HUP	No damage after three blows applied to various parts of the enclosure , impact energy 0.5j \pm 0.04j	Impact energy 0.5j± 0.04j three blows on panel, no any damage	P
HUAN	Appliance shall show no damage which could impair compliance with 8.1,15.1 and 29.1	Appliance shall show no damage which could impair compliance with 8.1,15.1and 29.1	P
N. N	If necessary, supplementary or reinforced insulation subjected to the electric strength test	Appliance no damage	N
LY D	If necessary, repetition of groups of three blows on a new sample	Appliance no damage	Ň
21.101 حرب	Visibly glowing radiant heaters, other than heaters for mounting at high level, are placed so that the central part of the fireguard is horizontal. A mass of 5 kg having a flat	No obvious deformation	P
HUM	base 100 mm in diameter is placed for 1 min on the central part of the fireguard. (EN60335-2-30:2002)	ANT HUT	HUM
21.102	Fixed appliances having a hinged part, the movement of which is restricted by chains or similar means, are fixed and the hinged part is allowed to drop under its own weight. This test is carried out five times. (EN60335-2-	Portable heater	N
21.103	30:2002) The suspension means of panel heaters for ceiling		N
20	mounting shall have adequate strength	-22 -22	4
22	CONSTRUCTION	Jr Jr	P
22.1	Appliance marked with the first numeral of the IP system: relevant requirements of IEC529 are fulfilled	No such appliance	Ň
22.2 بې	Stationary appliance: means to provide all-pole disconnection from the supply provided, the following	Portable heater	N
, P	means being available	, , , , , , , , , , , , , , , , , , ,	N
- A	-a supply cord fitted with a plug -a switch complying with 24.3		N N
	-a switch complying with 24.3		N N
	incorporated in the fixed wiring is to be provided	5	
, F	-a statement in the instruction sheet that a disconnection	. F F.	N
Ly.	incorporated in the fixed wiring is to be provided	NY NY	L'N'
7	-an appliance coupler	v	N
	Single-phase Class I appliance with heating elements,		N
22	intended to be permanently connected to fixed wiring, incorporating single-pole switches or single-pole	20 20	4
, N'	protective devices for the disconnection of the heating	J' J'	1 <u>, 3</u> r

AURT	EN60335-1 EN60335-2-30	AUPT AUPT	1 AUNT
ause	Requirement – Test	Result – Remark	Verdict
UN N	element(s): the switches/devices being connected in the phase conductor	UTAL UTAL	,UPT
22.3	Appliance provided with pins: no undue strain on socket- outlets	c v	N
22.4	Applied torque not exceeding 0.25N.m Appliance for heating liquids and appliance causing undue vibration not provided with pins for	No such appliance	N N=
22.5	No risk of electric shock when touching the pins of the plug	No Capacitor	N
22.6	Electrical insulation not affected by condensing water or leaking liquid	AN AN	N
440	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak	X X	Ň
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices	No such appliance	N
HUM	Appliances containing liquid shall be constructed so that they withstand the pressure likely to occur during use. (EN60335-2-30:2002)	No such appliance	Ň
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 which are likely to be cleaned in normal use	No such compartments	N
22.9	Insulation internal wiring, windings commutators and slip rings not exposed to oil, grease or similar substances	Not exposed to oil, grease or similar substances	N
HUN	Adequate insulating properties of oil or grease to which insulation is exposed	Not exposed to substances such as oil or grease	_√ ,× ^N
22.10	Location or protection of reset buttons of non-self- resetting controls is so that accidental resetting is unlikely	No resetting controls	N
22.11	Reliable fixing of non-detachable parts which	Non-detachable parts	P
22.12	Handles, knobs etc. fixed in a reliable manner		N
2	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible		N
HUP	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	AUP HUP	N
2	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	10 I0	N
22.13	Unlikely that handles, when gripped as in normal use, make the operators hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only	No handle	, N
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	No sharp edge	N

and the second	EN60335-1 EN60335-2-30	MAUR MAUR	"ACK
ause	Requirement – Test	Result – Remark	Verdict
HUAN	No exposed pointed ends of self tapping screws etc., liable to be touched by the user in normal use or during user maintenance	AURTU HURTU	N
22.15	Storage hooks and the like for flexible cords smooth and well rounded		N
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands, no undue wear of contacts	AURT HURT	-N-Y
	Cord reel tested with 6000 operations, as specified		N
F	Electric strength test of 16.3, voltage of 1000 V applied	F F	N
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	No such appliance	Ň
22.18	Current-carrying parts and other metal parts resistant to corrosion under normal conditions of use	12 12	N
22.19	Driving belts not used as electrical insulation	AUT HUT	Ň
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless material used is non- corrosive, non-hygroscopic and non-combustible	Material used is non- corrosive Non-hygroscopic and non-combustible	P
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless impregnated	No such material used for insulation	Ň
22.22	Asbestos not used in the construction of the appliance	Asbestos not used	N_
HUP	Asbestos is used, but the liberation of dust of impregnated asbestos or of asbestos fibres into the surrounding air adequately prevented	AUP HUP	N
22.23	Oils containing polychlorinated biphenyl (PCB) not used	No any oils used	N
22.24 U	Bare heating elements shall be supported to prevent excessive displacement occurring during normal use. The rupture of a heating element shall not give rise to a hazard. (EN60335-2-30)	Can't touch metal part	P
.25	agging heating conductors cannot come into contact with accessible metal parts	Can't contact	Р
22.26	The insulation between parts operation at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation	AURIU HURI	P
22.27	Parts connected by protective impedance separated by double or reinforced insulation	No protective impedance	N
22.28	Metal parts of Class II appliances conductively connected to gas pipes or in contact with water separated from live parts by double or reinforced insulation	Not connected to gas mains or to the water mains	N-C
22.29 بې	Class II appliances permanently connected to fixed wiring so constructed that the required degree of protection against electric shock is maintained after installation		N
22.30	Parts or class II construction serving as supplementary or reinforced insulation fixed so that they cannot be removed	AUPT HUPT	P

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HUAN	EN60335-1 EN60335-2-30	MAUN MAUN	"AUL
ause	Requirement – Test	Result – Remark	Verdict
2	without being seriously damaged, or	S S	0
HUR	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	AUN HUR	- Pr
22.31	Creepage distances and clearances over supplementary and reinforced insulation not reduced below values specified in 29.1as a result of wear	below values specified in 29.1as a result of wear	P
	Creepage distances and clearances over supplementary and reinforced insulation not reduced below values specified in 29.1 if wires, screws etc, becomes loose		Ϋ́Ρ
22.32	Supplementary and reinforced insulation designed or protected against deposition of dirt or dust	Supplementary and reinforced Insulation designed or protected against deposition of dirt or dust	PJ
AUNT	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation	No such material used	
AN	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 29.1	No such material used	N
22.33	Conductive liquids which are or may become accessible in normal use are not in direct contact with live parts	No liquid	~ ^N N
2	Conductive liquids are not in direct contact with basic insulation or reinforced insulation in class II constructions	No such appliance	N
22.34	Shafts of operating knobs, handles, levers etc. not live, unless the shaft in not accessible when the part is removed	No such appliance	N
22.35	Handles, levers and knobs, held or actuated in normal use, not becoming live in the event of an insulation fault	No such appliance	N
HUAN	Such parts being of metal, and their shafts or fixings are likely to becoming live in the event of an insulation fault, they are either adequately covered by insulation material ,or their accessible parts are separated from their shafts or fixings by supplementary insulation	No such appliance	N-4
HURTU	This requirement does not apply to handles, levers and knobs on stationary appliances other than those of electrical components, provided they are either reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal	Portable appliance	N
22.36	Handles continuously held in the hand in normal use are so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless they are separated from live parts by double or reinforced insulation	No Handles	N
22.37	Capacitors in ClassII appliances not connected		P
UTAU.	To accessible metal parts, unless complying with 22.42 Metal casings of capacitors of capacitors in Class II appliances separated from accessible metal parts by	No such capacitor used	P N-

TAUK .	EN60335-1 EN60335-2-30	HUAL HUAL	- AUR
ause	Requirement – Test	Result – Remark	Verdict
2	supplementary insulation, unless complying with 22.42	.) .)	0
22.38	Capacitors not connected between the contacts of a thermal cut-out	No such capacitor	N
22.39	Lamp holders only used for the connection of lamps	No lamp holder used	N
22.40 V	Motor-operated appliances and combined appliances, intended to be moved while in operation or which have accessible moving parts, are fitted with a switch to control the motor	AURTU HURTU	N
0	The actuating member of this switch easily visible accessible		N
22.41	Mercury switches shall be mounted so that the mercury capsule cannot fall out of position or be damaged by the clamping means	No such components containing mercury used	-HUNF
22.42	Protective impedance shall consist of at least two separate components	No protective impedance	N
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	AN AN	P
22.44	Appliances shall not have an enclosure that is shaped and decorated so that the appliance is likely to be treated as a toy by children.	No shape part	Ň
22.45	When air is used as reinforced insulation, the appliance shall be constructed so that clearances cannot be reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure.	AURYU HURYU	N
22.46	Software used in protective electronic circuits shall be software class B or software class C.	No software	N
22.47	Appliances intended to be connected to the water mains shall withstand the water pressure expected in normal use.	x ³ , ^x 3,	[_] ∧ ^N
22.48	Appliances intended to be connected to the water mains shall be constructed to prevent back siphonage of non- potable water into the water mains.	UNIC UNAL	N
22.49	For remote operation, the duration of operation shall be set before the appliance can be started, unless	8 - R	Ň
2	the appliance switches off automatically or can operate continuously without hazard	N N	N
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	AUPT HUPT	N
22.51	A control on the appliance being manually adjusted to the setting for remote operation before the appliance can be operated in this mode	AN AN	N
L'IC	There is a visual indication showing that the appliance is adjusted for remote operation		- ∧ [×] N
, AU	Manual setting and visual indication not necessary on appliances that can operate as follows, without giving rise to a hazard:		N
L.V.		N N	J.Y.

HUAN	EN60335-1 EN60335-2-30	NAUR HURN	- NACH
ause	Requirement – Test	Result – Remark	Verdict
2	- operate continuously,	10 10	N
Jr.	- operate automatically, or	Nr. Nr	Ň
× .	- be operated remotely		N
	Socket-outlets on appliances accessible to the user in		N
WAW	accordance with the socket-outlet system used in the country in which the appliance is sold	NAU NAUN	way
22.101	Heaters, other than heaters for mounting at high level, shall be guarded in order to prevent contact with heating elements. (EN60335-2-30:2002)		P
22.102	Fireguards shall have a total open area not less than 50 % of the surface area of the fireguard. (EN60335-2-30:2002)	AUPT HUPT	-HURA
22.103	Fireguards shall be securely attached to the heater so that it is not possible to detach them completely without the		Р
	use of a tool.(EN60335-2-30:2002)		
22.104	Appliances for wall mounting shall be constructed so that	Portable appliance	N
22.105	they can be securely fixed to a wall. (EN60335-2-30:2002) Accessible glass panels in direct contact with heating	No glass	N
22.105	elements shall withstand thermal shock. (EN60335-2-	NU glass	
22.106	30:2002) Portable appliances shall not have openings on the	No perforation	P
22.100	underside that would allow small items to penetrate and touch live parts. (EN60335-2-30:2002)	No perioration	LY C
22.107	Visibly glowing radiant heaters intended to be fixed to a wall or ceiling shall be constructed so that the direction of radiation cannot be significantly changed without the use of a tool after the heater has been fixed. (EN60335-2-30:2002)	Portable appliance	N
22.108	Visibly glowing radiant heaters, other than heaters for mounting at high level, shall not incorporate thermostats, timers or similar means which switch on heating elements automatically, unless at least one heating element is already visibly glowing. (EN60335-2-30:2002)	AURTO HURTO	N
22.109	The disconnection of the supply by a switch in the off position shall not rely on electronic components. (EN60335-2-30:2002)		P
22.Z1	Appliances ate not allowed to have an enclosure which is shaped and decorated so that the appliance is likely to be treated as a toy by children	No such enclosure used	Prill Pril
22.Z2	Fully halogenated chlorofluorocarbons (CFC'S) shall not be used	No such material used	P
23	INTERNAL WIRING	NC NC	P
23.1	Wireways smooth and free from sharp edges Wires protected against contact with burrs, cooling fins	K. K.	P P
_>	etc. Wiring effectively prevented from coming into contact with moving parts	20 20	P
23.2	Beads etc. on live wires cannot change their position, and	No beads are used	Ň

HURN	EN60335-1 EN60335-2-30	HALL HALL	TACKY
ause	Requirement – Test	Result – Remark	Verdict
2	are not resting on sharp edges or comers	N N	0
AUN	Beads inside flexible metal conducts contained within an insulating sleeve	No such beads	N
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress		Р
NAN NAN	Flexible metallic tubes not causing damage to insulation of conductors	No such metallic tubes	N
	Open-coil springs not used	No such springs used	Ň
-0	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	20 _20	N
Jr.	No damage after 10,000 flexing	ST ST	Ň
- V ¹⁻	Electric strength test, 1000V between live parts and metal parts		P
23.4	Bare internal wiring sufficiently rigid and fixed	No bare wiring used	N
23.5	The basic insulation of internal wiring withstanding the		P_
JP.	electrical stress likely to occur in normal use	Jr. Jr	JP.
	No breakdown when a voltage of 2000v is applied for 15min in between the conductor and metal foil wrapped around the insulation	No breakdown	Ϋ́Ρ
23.6	Sleeving used as supplementary insulation on normal wiring retained in position by positive means	Sleeving is shrinkable tube	P
23.7	Only the colour combination green/yellow used for earthing conductors	AP (AP	νP
23.8	Aluminium wires not used for internal wiring		
23.9	No lead-tin soldering of stranded conductors where they are subject to contact pressure, unless	No such conductor used	N
	Clamping means so constructed that there is no link of bad contact due to cold flow of the solder	There is no risk of bad contact due to cold flow of the solder	× N
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52) COMPONENTS	AUAT HURT	P
24.1	Components comply with safety requirements in relevant IEC standards	JAN JAN	P
1	List of components	See ANNEX A	Ϋ́Ρ
,FU	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 24.1.9	Has been experiment	N
	Components not tested and found to comply with relevant IEC standard, components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance	No such components	Ň
N	coordina de la contra de la con		

HUAN	EN60335-1 EN60335-2-30	A A	NUNTU	HURTO	AUG
ause	Requirement – Test		Result -	- Remark	Verdict
HUAND	found to comply with the relevant IEC standard, a part of the appliance and additionally accordin gauging and interchangeability requirements of t relevant IEC standard	g to the	AUFIN	HUPW	HUAT
24.1.1	Capacitors likely to be permanently subjected to supply voltage and used for radio interference suppression or for voltage dividing, complying w 60384-14, or	10	AUAIN	HUAN	N
	tested according to annex F				N
24.1.2	Safety isolating transformers complying with IEC 6, or	61558-2-	when	WAU	N
× 1	tested according to annex G		Κ	× .	Ň
24.1.3 ري	Switches complying with IEC 61058-1, the numb cycles of operation being at least 10 000, or	oer of	The com been app	ponent has proved	N
AC	tested according to annex H	F	AC	AC	N
~~	If the switch operates a relay or contactor, the co switching system is subjected to the test	omplete	č.	Ly.	Ň
24.1.4	Automatic controls complying with IEC 60730-1 relevant part 2. The number of cycles of operation		20	C.F.	N
42	- thermostats:	1 0 000	2 ² 2	42	Ň
2	- temperature limiters:	1 000 ر	3	2	N
JF.	- self-resetting thermal cut-outs:	300	JA	JA	N
<	- voltage maintained non-self-resetting thermal cut-outs:	1000	< C	\sim	Ň
3	- other non-self-resetting thermal cut-outs:	30			N
AC	- timers	3 000	AC	AC	N
4	- energy regulators:	10 000		LY.	Ň
	Thermal motor protectors are tested in combinat their motor under the conditions specified in Ann				N
HUAN	For water valves containing live parts and that a incorporated in external hoses for connection of appliance to the water mains, the degree of prot declared for subclause 6.5.2 of IEC 60730-2-8 is	an ection	AUFTU	HURN	N.
24.1.5 🔊	Appliance couplers complying with IEC 60320-1	2	13	2	N
HUR	However, appliances classified higher than IPX0 appliance couplers complying with IEC 60320-2-		AUF	HUP	- N
	Interconnection couplers complying with IEC 603	320-2-2			N
24.1.6	Small lamp holders similar to E10 lampholders of with IEC 60238, the requirements for E10 lamph being applicable		No such	appliance	N

HUNAN	EN60335-1 EN60335-2-30	NAUK HUAN	- WALL
ause	Requirement – Test	Result – Remark	Verdict
24.1.7 V	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	AURTH HURTH	N
24.1.8	The relevant standard for thermal links is IEC 60691. Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19	AUATU HUATU	N
24.1.9	Relays, other than motor starting relays, tested as part of the appliance		N
HUP	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of operations in 24.1.4 selected according to the relay function in the appliance :	AUP HUP	L'HEN
24.2	Automatic controls complying with IEC 730: additional tests according to this standard and 11.3.5 to 11.3.8 and CI.17 of IEC 730 as type 1	No such controls used	N
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	Mobile equipment	₹ N
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	AUP HUP	P
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly	NOF WOR	Ň
WAW	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	NAN NAN	N
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		Ň
UNAU	In addition, the motors are complying with the requirements of Annex I	UPN UPN	N
24.7	Hose-sets for connection of appliances to the water mains, complying with IEC 61770 and supplied with the appliance		Ň
24.101	Devices incorporated in oil-filled radiators in order to comply with 19.114 shall not be self-resetting. (EN60335-2-30: 2002)	AUAT HUAT	- N-I
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CON	RDS	Р
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:	20 20 20	P
NA	Supply cord fitted with a plug	Nr Nr	P

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HUAN	EN60335-1 EN60335-2-30	HURN HURN	TACKY				
ause	Requirement – Test	Result – Remark	Verdict				
JAN	An appliance inlet having at least the same degree of protection against moisture as required for the appliance	UNYU UNYU	N				
\sim	Pins for insertion into socket-outlets		S N ∣				
25.2 ي	Appliance other than stationary appliance not provided with more than one means of connection to the supply	Not multiple supply appliance	N				
HUAT	Stationary appliances for multiple supply may be provided with more than one means of connection provided the relevant circuits are adequately insulated from each other, provided electric strength lest of 1250V for 1 min between each means of connection causes no breakdownNot stationary appliance supply						
25.3	Connection of supply wires for appliance intended to be permanently connected to fixed wiring possible after the appliance has been fixed to its support	The appliance is not intended to be permanently connected to fixed wiring	N				
They are	-appliance provided with a set of terminals for the connection of cables or fixed wiring, cross-sectional areas specified in 26.2	AUAT FURT	N				
	-appliance provided with a set of terminals allowing the connection of a flexible cord		N				
HUAN	-appliance provided with a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate type of cable or conduit	AUN THIN THE	N-C				
25.4	Cable and canduit entries, rated current of appliance not exceeding 16A, dimensions, according table 8	The appliance is not intended to be permanently connected to fixed wiring	N				
-12	Introduction of conduit or cable does not affect the protection against electric shock or reduce creepage distances and clearances below values specified in 29.1	-1 ² -1 ²	P				
25.5	Method for assemble supply cord with the appliance	Type Y attachment	P				
25.6	Plugs fitted with only one flexible cord Supply cords of single-phase portable appliances having a rated current not exceeding 16A, provided with a plug complying with the following standard sheets of IEC83	Being approved by VDE	P				
25.7	Temperature rise of external metal parts exceeding 75K, PVC cord not used	way way	N-L				
Υ.	PVC cord used: appliance so constructed that the supply cord is not likely to touch such metal parts in normal use		Ň				
A.	PVC supply cord appropriate for higher temperatures, type Y or type Z attachment used	Type Y attachment used	P				
42	Flat twin tinsel cord is allowed for hand-held Shown in table 10; pull (N); torque (Nm) (not on automatic cord reel)	Torque test: 0.35N m for 1 min	P				
UT CAR	Max. 2cm displacement of the cord, and conductors not moved more than 1mm in the terminals	No legible movement	P				

HURT	EN60335-1 EN60335-2-30	AUN IN TO	HUNT
ause	Requirement – Test	Result – Remark	Verdict
HUAN	Creepage distances and clearances not reduced below values specified in 29.1	After test Creepage distances nand clearances meet the requirements of 29.1	P
25.8	Nominal cross-sectional area of supply cords according to table 11; rated current (A); cross-sectional area (mm ²):	40 40	P
25.9	Supply cord not in contact with sharp points or edges	AUP JUP	P
25.10	Green/yellow core for earthing purposes in Class I appliance		Р
25.11	Conductors of supply cords not consolidated by lead-tin soldering where they are subject to contact pressure, unless	NUM IN THE	P
	clamping means so constructed that there is no risk of bad contacts due to cold flow of the solder		Р
25.12	Moulding the cord to part of the enclosure does not damage the insulation of the supply cord	AUPT HUPT	PA
25.13	Inlet opening so shaped as to prevent damage to the supply cord		Р
LUNAU .	Unless the enclosure at the inlet opening is of insulation material, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided	AURTO HURTO	P
2	If unsheathed supply cord, a similar additional bushing or lining is required, unless	TO TO	N
NUP	The appliance is class 0	Class II appliance	N
25.14	Supply cords adequately protected against excessive flexing		P
2	Flexing test:	12 12	Р
AU	Applied force (N):	10N	Р
~	Number of flexing:	10000	P
	The test does not result in:		P
3	Short circuit between the conductors	N N	Р
HUP	Breakage of more than 10% of the strands of any conductor	AUP HUP	- P
	Separation of the conductor from its terminal		Р
22	Loosening of any cord guard	22 22	P
HUM	Damage, within the meaning of the standard, to the cord or the cord guard	ADR HOR	[₽] P
	Broken strands piercing the insulation and becoming accessible		Р
25.15	Conductors of the supply cord relieved from strain,	P P	P

HACK	EN60335-1 EN60335-2-30	HURN HURN	"AUR	
ause	Requirement – Test	Result – Remark	Verdict	
	twisting and abrasion by use of cord anchorage			
HUP	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	ALLA HUP	P	
A.	Pull and torque test of supply cord, values shown in table 10: pull (N); torque (not on automatic cord reel) (Nm)	FN FN	P	
LYN C	Max. 2 mm displacement of the cord		×Ρ	
25.16	Cord archorages for type X attachments so constructed and located that	Type Y attachment	N	
A	Replacement of the cord is easily possible	A A	N	
HD.	It is clear how the relief from strain and the prevention of twisting are obtained	AD, AD,	Ň	
	They are suitable for different types of cord		N	
A.	Cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless separated from	FU FU	N	
<pre></pre>	Accessible metal parts by supplementary insulation		N	
	The cord is not clamped by a metal screw which bears directly on the cord		Р	
CT AC	At least one part of the cord anchorage securely fixed to the appliance, unless part of a specially prepared cord	JAN JAN	N	
170	Screws which have to be operated when replacing the cord do not fix any other component, if applicable		Ň	
22	If labyrinths can be bypassed the test of 25.15 is nevertheless with stood	42 42	N	
HN.	For Class 1,01and I appliances: they are of insulating material or are provided with an insulating lining, unless a failure of the insulation of the cord does not make accessible metal parts live	AD, PD,	- ^N	
WALK	For Class II appliances: they are of insulating material, or if of metal, they are insulated from accessible metal pares by supplementary insulation	AURIU AURIU	P	
25.17	Adequate cord anchorage for type Y and Z attachment	Type Y attachment	P	
25.18	Cord anchorage only accessible with the aid of a tool, or so constructed that the cord only can be fitted with the aid		Р	
25.19	of a tool Type X attachment, glands not used as cord anchorage in portable appliances	Type Y attachment	N	
	Tying the cord into a knot or tying the cord with string not used		N	
25.20	Conductors of the supply cord for type Y and Z attachment adequately additionally insulated	Being approved by VDE	P	
25.21	Space for supply cable for fixed wiring or supply cord for type X attachment constructed to permit checking of conductors with respect to correct positioning and connection before fitting any cover, no risk of damage, no contact with accessible metal parts if a conductor	Type Y attachment	N	
AUK	becomes loose, etc.	AUR AUR	AUR	

TACK.	EN60335-1 EN60335-2-30	HUAN HUAN	"AUN
ause	Requirement – Test	Result – Remark	Verdict
HUAN	For portable appliances, the uninsulated end of a conductor prevented from any contact with accessible metal parts, unless the end of the cord is such that the conductors are unlikely to slip free	AURTH HURTH	N
25.22	Appliance inlet		P
2	-live parts not accessible during insertion or removal	N N	P
F	-connector can be inserted without difficulty	F. F	P
LV LV	-the appliance is not supported by the connector		N P
22	-is not for cold conditions if temperature rise of external metal parts exceeds 75K, unless the supply cord is not likely to touch such metal parts	40 40	N
25.23	Interconnecton cords comply with the requirements for the supply cord, except as specified	No interconnection cord uesd	L'IN
	If necessary, electric strength test of 16.3		N
25.24	Interconnection cords not detachable without the aid of a tool if compliance with the standard is impaired when they are disconnected	No interconnection cord uesd	N
25.25	Dimensions of pins compatible with the dimensions of the relevant socket-outlet. Dimensions of pins and engagement face in accordance with the relevant plug in IEC 60083		P
26	TERMINALS FOR EXTERNAL CONDUCTORS	The The	P
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors		Ϋ́P
UNAU.	Terminals only accessible after removal of a non- detachable cover	UNAU UNAU	P
×^	However, earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection		P
26.2	Appliances provided with terminals or equally effective devices for connection of external conductors	NAN NAN	N
×.	Terminals only accessible after removal of a non- detachable cover	< <	Ň
UT V	However, earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection	JAN JAN	N
~	Appliances provided with terminals or equally effective devices for connection of external conductors		Ň
JAN,	Terminals only accessible after removal of a non- detachable cover	JAN JAN	N
26.3	Terminals for type X attachment and for connection to fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure and without damaging the conductor	Type Y attachment	N
HUP	Terminals for type X attachment and those for connection to fixed wiring so fixed that when tightening or loosening	AUH AUH	N

HURN	EN60335-1 EN60335-2-30	HUAN HUAN	TACK.	
ause	Requirement – Test	Result – Remark	Verdict	
2	the clamping means:		0	
JF.	- the terminal does not loosen	JP JP	N	
×.	- internal wiring is not subjected to stress		Ň	
2	- clearances and creepage distances are not reduced below the values in 29	10 10	N	
What was	Compliance checked by inspection and by the test of subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified. Nominal diameter of thread (mm); screw category; torque (Nm)	TO TO	N	
26.4	Terminals for type X attachment and those for connection to fixed wiring so fixed that when tightening or loosening the clamping means	Type Y attachment	Ň	
	-the terminal does not loosen		N	
12	-internal wiring is not subjected to stress	7 7	N_4	
HUM	-creepage distances and clearances are not -reduced below the values in 29.1	AUT HUT	N	
26.5	Terminals for type X attachment and for connection to	Type Y attachment	N	
NAN NAN	fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure and without damaging the conductor	JAN JAN	JP4	
26.6	Terminals for type X attachment, no special preparation of conductors required, and so constructed and placed that conductors prevented from slipping out, except those with a specially prepared cord and those for connection to fixed wiring	Type Y attachment	N N.	
26.7	Terminals of the pillar type constructed and located as specified	Not such construction	Ň	
26.8	Terminals for the connection to fixed wiring located close to each other, including the earthing terminal	10 IN	P	
26.9	Terminals for type X attachment accessible after removal of a cover or part of the enclosure	NOP NOP	N	
26.10	Terminals not accessible without the aid of a tool		P	
26.11	For type Y and Z attachment: soldered, welded, crimped and similar connections may be used		P	
HUAT	For Class II appliances: the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	AUAT HUAT	P-C	
NAU	For Class II appliances: soldering, welding or crimping alone used, barriers provided, clearances and creepage distances satisfactory if the conductor becomes free	WAN WAN	P	
27	PROVISION FOR EARTHING	×. ×.	P	
27.1	Accessible metal parts of Class 0I and I appliances, permanently and reliably connected to an earthing terminal or contact of the appliance inlet	10 L0	P	
F	Earthing terminals not connected to neutral terminal	JF JF	P	

HURN	EN60335-1 EN60335-2-30	HUAN HUAN	- WALL
ause	Requirement – Test	Result – Remark	Verdict
-22	Class 0, II and III appliance have no provision for earthing	Class II appliance	N
HUP	Safety extra-low voltage circuits not earthed, unless protective extra-low voltage circuits	AUP HUP	, N
27.2	Clamping means adequately secured against accidental loosening	L) L)	P
HUP	Terminals used for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and	AUP HUP	P.P
UTAU	do not provide earthing continuity between different parts of the appliance	UPU UPU	P
1	Conductors cannot be loosened without the aid of a tool		P
27.3	For detachable parts that are plugged into another part of the appliance, and having an earth connection, the earth connection made before and separated after current- carrying connections when removing the part	NAN NAN	N
	For appliances with supply cord, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage		Ň
27.4	No risk of corrosion resulting from contact between metal of earthing terminal and other metal	AUPT HUPT	P
20	Adequate resistance to corrosion of coated or uncoated parts providing earthing continuity, other than parts of a metal frame or enclosure	22 22	P
4101	Parts of steel providing earthing continuity provided at the essential areas with an electroplated coating, thickness at least 5 μm		P
WAW	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	NUPTU LUPTU	P
*	In case of aluminium alloys precautions taken to avoid risk of corrosion		Р
27.5	Low resistance of connection between earthing terminal and earthed metal parts	42 42	P
thu, th	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided that clearances of basic insulation are based on the rated voltage of the appliance		, N
HUP	Resistance not exceeding 0,1 Ω at the specified low-resistance test	AUP HUP	P
27.6	The printed conductors of printed circuit boards shall not be used to provide earthing continuity in hand-held appliances.	Portable appliance	N
J.	They may be used to provide earthing continuity in other	JF JF	Ň

TAUR	EN60335-1 EN60335-2-30	HUPT HUPT	AUN
use	Requirement – Test	Result – Remark	Verdict
HUNNUN	appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit	NUAN HUAN	AUNT
28	SCREWS AND CONNECTIONS	<i>₽</i> ₹	P
28.1 ري	Fixings and electrical connections withstand Mechanical stresses		Р
AUN	Screws not of soft metal liable to creep, such as zinc or aluminum	Not such screws used	N
	Diameter of screws of insulating material min 3mm		N
22	Screws of insulating material not used for any electrical connection	and an	N
HUM	Screws transmitting electrical contact only screwing into metal	AND HUN	P
	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation		N
HUAT	Type X attachment, screws to be removed for replacement of supply cord, or for users maintenance, not of insulating material if their replacement by a metal screw can impair basic insulation	Type Y attachment	N-
NAUN	Screws and nuts transmitting contact pressure subjected to torque test as specified, applying torque as shown in table 12	Screw sand nuts transmitting contact pressure subjected to torque test as specified	P
L'A	The test is not carried out on screws and nuts Transmitting contact pressure for earthing Continuity provided at least two screws or nuts Are used. (Annex ZA)	AN AN	N
28.2	Contact pressure not transmitted through insulating material liable to shrink or distort, unless shrinkage or distortion compensated	Contact pressure not Transmitted through insulating material	P
CTAC .	This requirement does not apply to electrical connections in circuit carrying a current not exceeding 0.5A	JAN JAN	P
28.3	Space-threaded (sheet metal) screws only used for the connection of current-carrying parts if they clamp these parts directly in contact with each other	No space-threaded Screws used	Ň
22	Thread-cutting (self-tapping) screws not used for electrical connection of current-carrying parts, unless generating a full form standard machine screw thread	No such screws used	P
28.4	Screws and nuts making mechanical connection between different parts of the appliance, and also making electrical connection or providing earthing continuity secured against loosening	No such screws and nuts used for electrical connection	N
NUM	Rivets for current-carrying connections subject to torsion secured against loosening	No such rivets used	N
29	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH INSULATION		Р
12	Clearances, creepage distances and solid insulation withstand electrical stress	10 10	Р

TACHY	EN60335-1 EN60335-2-30	HUAN HUAN	TACK.
ause	Requirement – Test	Result – Remark	Verdict
LACKY CHA	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), annex J applies	AUATU HUATU	N
	The microenvironment is pollution degree 1 under Type 1 coating		N
ACH	No clearance or creepage distance requirements under Type 2 coating	AUPT HUPT	N-C
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless	See appended table 29.1	P
HUN	for basic insulation and functional insulation they comply with the implulse voltage test of clause 14	AUP AUP	L'IP
UNAC STAR	However, if the construction is affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500V and above are increased by 0,5 mm and the impulse voltage test is not applicable	WATU WATU	N
<	Impulse voltage test not applicable:		N N
	- when the microenvironment is pollution degree 3		P
22	- for basic insulation of class 0 and class 01 appliances	22 22	N
NUR	Appliances are in overvoltage category II	N' N'	N
	Clearances less than specified in table 16 not allowed for basic insulation of class 0 and class 0I appliances,		N
27E	or if pollution degree 3 is applicable	A AN	P_C
HD.	Compliance is checked by inspection and measurements as specified		,× [₽]
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		P
HUA	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1mm if the microenvironment is pollution degree 1	AUP HUP	P
.5	Lacquered conductors of windings considered to be bare conductors		N
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16	AUPT INPT	Pr
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, but using the next higher step for rated impulse voltage		P
29.1.4	For functional insulation, the values of table 16 are applicable, unless		P
2	the appliance complies with clause 19 with the functional insulation short-circuited		N
Nr.	Lacquered conductors of windings considered to be bare	JF JF	N

TACIN	EN60335-1 EN60335-2-30	HACK HACK	MACH
ause	Requirement – Test	Result – Remark	Verdict
2	conductors	40 40	
AUN	However, clearances at crossover points are not measured	AUP HUP	N
2	Clearance between surfaces of PTC heating elements may be reduced to 1mm		N
29.1.5	Appliances having higher working voltage than rated voltage, the voltage used for determining clearances from table 16 is the sum of the rated impulse voltage and the difference between the peak value of the working voltage and the peak value of the rated voltage	AUA HUAN	N
LUP C	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in table 16, but using the next lower step for rated impulse voltage	NATU HUM	THN N
4	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation based on the working voltage used as the rated voltage in table 15		Ň
STAC.	Values increased by 4mm in case of reinforced insulation	JATO JATO	N_C
29.2	For working voltages up to and including 250V, distances through insulation not less than 1,0 mm for supplementary insulation, and, 2.0mm for reinforced insulation	>2.0mm for reinforced insulation	P
29.2.1	Supplementary insulation applied in thin sheet form, other than mica or similar scaly material, consists of at least two layers, each of the layers withstands the electric strength test of 16.3 for supplementary insulation	Not such construction	, N
HUATO	Reinforced insulation applied in thin sheet form, other than mica or similar scaly material, consists of at least two layers, and two of the layers together withstand the electric strength test of 16.3 for reinforced insulation	Not such construction	N
29.2.2	Supplementary or reinforced insulation inaccessible and does not exceed the maximum permissible temperature values		P
HUR	Supplementary or reinforced insulation, after conditioning as specified, withstands the electric strength test as specified in 16.3,both at the oven temperature and room temperature	AUP HUP	P
29.2.3	Creepage distances of reinforced insulation at least double as specified for basic insulation in table 17	NUATU NUATU	P
29.2.4	Creepage distances of functional insulation not less than specified in table 18		N
LUP (U	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	AUAN AUAN	N

HURT	EN60335-1 EN60335-2-30	HUPN HUPN	AURY
ause	Requirement – Test	Result – Remark	Verdict
29.3 v	Supplementary and reinforced insulation having adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	AUATU HUATU	P
	Compliance checked by:		Р
2	- measurement, in accordance with 29.3.1, or		Р
JUP	- an electric strength test in accordance with 29.3.2, or	JUP JUP	N
-12	- an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3	40 40	N
29.3.1	Supplementary insulation having a thickness of at least 1 mm	AUP HUP	L'LP
	Reinforced insulation having a thickness of at least 2 mm		P
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	FN FN	N
	Supplementary insulation consisting of at least 2 layers		Ň
	Reinforced insulation consisting of at least 3 layers		N
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	AN AN	N
L'D'	the electric strength test of 16.3		N
	If the temperature rise during the tests of Clause 19 does not exceed the value specified in Table 3, the test of IEC 60068-2-2 is not carried out	, FU , FU	N
30	RESISTANCE TO HEAT, FIRE AND TRACKING	AN AN	P
30.1	Relevant external parts of non-metallic material supplementary or reinforced insulation sufficiently resistant to heat	See appended table 30.1	P
HUAR	Parts supporting live parts and parts providing supplementary or reinforced insulation sufficiently resistant to heat	See appended table 30.1	P
	Ball-pressure test with a force of 20N, diameter of impression not exceeding 2 mm	See appended table 30.1	P
2	External parts: at least 75°C		Р
JA.	Parts supporting live parts: at least 125°C	Enclosure PCB tested	P-1
	Parts providing supplementary or reinforced insulation: temperature($^{\circ}C$)		N
30.2	Relevant parts of non-metallic material adequately resistant to ignition and spread of fire	See appended table 30.2	P
30.2.1	Possible burning test of relevant pars according to Annex J	en en	γP
30.2.2	Appliances operated white attended, parts of insulation material supporting connections carrying a current exceeding 0,5A in normal operation, subjected to the glow-wire test of Annex K at 650 °C	See appended table 30.2	P

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NUAN	EN60335-1 EN60335-2-30	HURN HURN	IN ALL
ause	Requirement – Test	Result – Remark	Verdict
30.2.3	Appliances operated white unattended, possible bad-connection test according to Annex L		N
L.Y.	Possible needle-flame test according to Annex M	N N	Ň
30.2.4	Parts of non-metallic material within a distance of 50 mm from pars not withstanding the tests of 30.2.2 of 30.2.3, subjected to the needle-flame test of Annex M		N
30.101	Heaters having an enclosure of substantially non-metallic material shall be resistant to fire. (EN60335-2-30: 2002)	No fan	-richer
31	RESISTANCE TO RÚSTING		N
, FU	Relevant ferrous pars adequately protected against rusting	Relevant ferrous pars are plated	N
32	RADIATION, OXICITY AND SIMILAR HAZARDS	AN AN	Ň
v	No harmful radiation emit	No any radiation source	N
	no toxic or similar hazard	No toxic hazard	N
F	The state of the s	JAC JAC	NPT I



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10	23	2	2 4	2	2 4	S _S
10.1	TABLE: Powe	er input deviation	on w	AUR	AUR	P
Input deviation of	/at:	P rated (W)	P measured (W)	dP	Required dP	Remark
220V/50Hz	, P	425	413	F	+5 / -10%	P
240V/60Hz	NO. THE	425	415	- 40	+5 / -10%

11.8 TABLE: Heating test, them	nocouples	5	2	P
Test voltage (V)	F	242V (2070W) JP	-JP
Ambient (°C)	······	25°Č	×~	<u> </u>
Thermocouple locations	dT (K)		Max. dT (K)
Supply cord	2 10.1	40	50	-22
Internal wire of heating element	10.2	HUF	NV 80	HUM
Internal wire	5.1		55	
Silicon coated fiberglass sleeving	152.1		175	
Ambient of tip-over switch	29.3	F	100	JAT .
Ambient of Power switch	8.6	-12	60	LY C
Plastic enclosure	1.2		See cl.3	0
Metal surface of enclosure	61.7	, F	85	A A
Knob of power switch	3.3	40	ک 60	LND.
Handle	2.2		60	
Test corner	11.4		65	
Enclosure of oscillating motor	49.8	JF	Ref.	JA .
				N.

11.8	TABLE: Heating test, resistance method				Р			
	Test voltage (V)			242V (2070W)				
, FV	Ambient, t1 (°C)		P	2	25°C			4
	Ambient, t2 (°C)	- KN	rh ⁰	:	LY C	25°C		
Temperature rise o	f winding	R1 (Ω)	R2 (Ω)	2	dT (K)	Max. dT (K)		ulation class
Winding of oscillati	ng motor	11510	14635		73.5	90	Cla	iss 120 (E)

13.2	TABLE: Leakage current		.5	P
JAU.	Heating appliances: 1.15 x rated input:	JA.	JP	14T
Shenzhen HuaYu Test Technology Co,.Ltd.

	1.06 x rat	erated and co ed voltage				242V	F	4
	rent between				L.N.		NO.	L'N'
I /NI to parthe		Leakage current between				mA)	Max. allow	ed I (mA)
L/N to calling	ed metal parts ove	er basic insul	ation		0	.05	0.7	' 5
L/N to plastic	c enclosure over i	reinforced ins	sulation	.FV	0	.05	0.2	25
LYD.	HD.	LN .	LYN.	HD.	12	, ,		L'NY
13.3	TABLE: Electric s	trength						Р
Test voltage	applied between:	F	FU	Volt	age (V)	22	Breakdow (Yes/No)	
L/N to earthe	ed metal parts ove	er basic insul	ation	1	1000 💉	-	No	-h
L/N to plastic	c enclosure over r	einforced ins	ulation	3	3000		No	
-12	-23	20	20	-20		22	- C	22
16.2	TABLE: I	_eakage curr	ent	HUr	L)	Υ	LU'	N ^V P
		ase applianc				242\	/	_
UNIN		ase applianc y √3:				42 -	JAN	C. H
Leakage cur	rent between	×.	<	×.		(mA)	Max. allow	ved I (mA
L/N to earthe	ed metal parts ove	er basic insul	ation		0	0.05	0.7	75
L/N to plastic	c enclosure over r	einforced ins	ulation	22	C	0.05	0.2	25 2
, John	ANK.	APT	NOF	NOF	Cr.	Υ	ANK .	NOF
16.3 1	TABLE: Electric st	trength	*		*			Ρ
Test voltage	applied between:	F	ARU	Volt	age (V)	2 V	Breakdow (Yes/No)	
L/N to earthe	ed metal parts ove	er basic insul	ation	1	1250 🔨	4	No	LY C
L/N to plastic	c enclosure over r	einforced ins	ulation	3	3000		No	
	0		2	0		0	\sim	0
19.7 T	ABLE: Abnormal	operation, lo	ocked rotor/m	oving part	s	P	JP	P
T	est voltage (V)	<u> </u>	<u> </u>	: 🔨	~			<u> </u>
A	Ambient, t1 (°C)			:				
, A	Ambient, t2 (°C)			:				
Temperature	e of winding	R1 (Ω)	R2 (Ω)	dT (K	()	T (°C)	Max.	Г (°С)
		11510	14648	73.9	X	90	× ×	~~~~
19.13	TABLE: A	Abnormal ope	eration, temp	erature ris	es	42	A N	P
Thormocour	ole locations	LAN.	thu.	dT (K)	44		🔊 Max. d	Т (К)
mennocout				Clause	Clause	Clause		
memocod		Claus 19.10		Clause 19.111	19.106	19.11		

Shenzhen HuaYu Test Technology Co,.Ltd.

Test corner (204)	P	11.9	22K	-FV		F ²	F 150 F
Plastic enclosure (207		62.1 🗸	64.2K	~~-	- ~		See clause 30.1
Winding of oscillating mo 120)	tor (class	1	1	1	°C	°C	165°C
aut aut	AUR	-C	JAN	JURACE		F	Jack They

, vr	AU	NAT	JAC	NAT	NC	NUM		NAU
30.1	TABLE: Ba	l pressure		Κ.	~	~		P
	Part	Test tempera	ature (°C)	Impres diameter			ed impr meter (i	
Po' Po	wer switch	125	<u>,</u> ,	1.04	4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	HD.	2.0	HD.
Tip-	over switch	125		0.9	8		2.0	
J.	inclosure 📣	75	22	0.6	5 _~	4	<mark>ک</mark> 2.0	22
Jun 1	, sr	Nr w	Sh	J.	J	Jr		Jr.
30.2	TABLE: glo	w-wire tests		×.	×.	× ·		Р
Part / at:		Test temperature	Flame in t	he first 30 s	Self-extin	guished i	in the fu	urther 30 s
20	22	(°C)	_> Yes	s / No	22	Yes/N	lo/	20
Power swi	tch v	850/750		No	- NUF	HUr-	-	HUN
Tip-over s	witch	850/750	1	No			-	
Enclosure	2	650	2	No 🔊	2		5	2
Close-end	connector	850/750	F	Nove	, F	, P	-	, P



















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EN 60335 Report







EN 55014-1:2017+A11:2020 EN 55014-2:2015 EN 61000-3-2:2019+A1:2021 EN 61000-3-3:2013 +A1:2019 MEASUREMENT AND TEST REPORT

JieYang City Maist Plastic Products Co.,Ltd.

For

JingLian Society, TangPu Village, FengMei Office, Airport Economic Area, JieYang City

Model: XH-3010, XH-1201, XH-301R, XH-302R, XH-303R, XH-401R, XH-402R, XH-403R, XH-501R, XH-502R, XH-601R, XH-602R, XH-801R, XH-802R, XH-803R, XH-901R, XH-902R, XH-1001R, XH-1002R, XH-1201R, XH-1202R, XH-1301R, XH-1302R, XH-1303R, XH-1501, XH-1601, XH-2021

<u>, </u>	J	Y	J	AC.	AC
This Report Co	ncerns:	Equ	ipment Typ	pe:	×*
Original Report	20	Air F	leater	-10	-22
Test Engineer:	Pink/	4NDF	Pink	AF Aca	HOL
Report Number:	HY21LR-00	3ENPN	THE MUTCH		HUANU
Test Date: Reviewed By:	November 2 Jamin/	5-December :	2, 2021	ORIZEDA	HURTO
Prepared By:			echnology C		
JAC HUNAT			ng 1, Detai Inc nghua New Di		Huarong Road
JAY HUAY					
JAW HUAW					

HUAN	HUP (V)	UPTU H	JAW	HUAN	HURNU	HURN	HUPYU	HUANU
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1 - GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

Client Information

Applicant: Address of applicant:

Manufacturer: Address of Manufacturer:

Factory: Address of Manufacturer:

General Description of E.U.T

EUT Name: Model No.:

Air Heater XH-3010, XH-1201, XH-301R, XH-302R, XH-303R, XH-401R, XH-402R, XH-403R, XH-501R, XH-502R, XH-601R, XH-602R, XH-801R, XH-802R, XH-803R, XH-901R, XH-902R, XH-1001R, XH-1002R, XH-1201R, XH-1202R, XH-1301R, XH-1302R, XH-1303R, XH-1501, XH-1601, XH-2021 220-240V~ 50Hz 1200W

JieYang City Maist Plastic Products Co., Ltd.

JieYang City Maist Plastic Products Co., Ltd.

JieYang City Maist Plastic Products Co.,Ltd.

Economic Area, JieYang City

Economic Area, JieYang City

Economic Area, JieYang City

JingLian Society, TangPu Village, FengMei Office, Airport

JingLian Society, TangPu Village, FengMei Office, Airport

JingLian Society, TangPu Village, FengMei Office, Airport

Rating:

Remark: * The test data gathered are from the production sample provided by the manufacturer.

1.2 Test Standards

The following Declaration of Conformity report of EUT is prepared in accordance with

EN 55014-1:2017+A11:2020

EN 55014-2:2015

EN 61000-3-2::2019+A1:2021

EN 61000-3-3:2013 +A1:2019

The objective of the manufacturer is to demonstrate compliance with the described standards above.



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1.3 Test Summary

For the EUT described above. This apparatus is subdivided into category II according to the section 4.2 of EN 55014-2:2015. So according to section 7.2.2 of this standard, the immunity test item applicable to this EUT is listed in table 3.

Table 1 : Tests Carried Out Under EN 55014-1:2017+A11:2020

Standard	Test Items	Status	
EN 55014-1:2017	Conducted Emission (150kHz to 30MHz)	\checkmark	2
EN 55014-1:2017	Disturbance Power (30MHz To 300MHz)	\checkmark	
EN 55014-1:2017	Radiated Disturbances (30MHz To 1000MHz)	$\sim $	
EN 55014-1:2017	Click	х	\mathbf{z}

 $\sqrt{}$ Indicates that the test is applicable

× Indicates that the test is not applicable

Table 2 : Tests Carried Out Under EN 61000-3-2::2019+A1:2021 / EN 61000-3-3:2013+A1:2019

Standard	Test Items	Status
EN 61000-3-2::2019+A1:2021	Harmonic Current Test	्र x
EN 61000-3-3:2013 +A1:2019	Voltage Fluctuations and Flicker Test	\checkmark

Indicates that the test is applicable

Indicates that the test is not applicable

Table 3 : Tests Carried Out Under EN 55014-2:2015

Standard	Test Items	;	Status	
EN61000-4-2:2009	Electrostatic discharge Immunity		> √	
EN61000-4-3:2020	Radiated Susceptibility (80MHz to 1GHz)	HUP	Х	24
EN61000-4-4:2012	Electrical Fast Transient/Burst Immunity			l
EN61000-4-5:2014+A1:2017	Surge Immunity		\checkmark	
EN61000-4-6:2014	Conducted Susceptibility (150kHz to 230MHz)	F	\checkmark	
EN61000-4-11:2004+A1:2017	Voltage Dips, Short Interruptions Immunity	L.		X

Indicates that the test is applicable

Indicates that the test is not applicable

1.4 Test Methodology

All measurements contained in this report were conducted with CISPR 16-1: 2002, radio disturbance and immunity measuring apparatus, and CISPR16-2: 2002, Method of measurement of disturbances and immunity.

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1.5 Test Equipment List and Details Test equipments list of Shenzhen SEM.Test Technology Co., Ltd.

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-	Spectrum	Rohde &		026070/025	2021-06-	2022-06-
1031	Analyzer	Schwarz	FSP	836079/035	04	03
SEMT-	EMI Test	Rohde &	1	5 5	2021-06-	2022-06-
1007	Receiver	Schwarz	F ESVB	825471/005	04	03
SEMT-		Scriwarz		X	2021-06-	2022-06-
	Amplifier	Agilent	8447F	3113A06717		
1008	•	5			04	03
SEMT-	Amplifier	C&D	PAP-1G18	2002	2021-06-	2022-06-
1043				D 1001 D	04	03
SEMT-	Trilog Broadband	Schwarz beck	VULB9163	9163-333	2021-06-	2022-06-
1011	Antenna	Scriwarz Deck	VULDBIUD	9103-333	04	03
SEMT-	Trilog Broadband			0400.000	2021-06-	2022-06-
1068	Antenna	Schwarz beck	VULB9163(B)	9163-333	04	03
SEMT-				S	2021-06-	2022-06-
	Horn Antenna	ETS	3117 🚽	00086197	- mail	
1042	J. J.F	- NY - N	r sr	- SY	04	03
SEMT-	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-06-	2022-06-
1069	•			0.10	04	03
SEMT-	EMI Test	Rohde &	ESPI	101611	2021-06-	2022-06-
1001	Receiver	Schwarz	ESFI	101011	04	03
SEMT-	EMI Test	Rohde &	N FOR	S LALAS N	2021-06-	2022-06-
1066	Receiver	Schwarz	ESPI	101391	04	03
SEMT-		Rohde &	· · · · · · · · · · · · · · · · · · ·	, N'	2021-06-	2022-06-
	Pulse Limiter		ESH3-Z2	100911	· · · · · · · · · · · · · · · · · · ·	
1002		Schwarz			04	03
SEMT-	AC LISN	Schwarz beck	NSLK8126	8126-224	2021-06-	2022-06-
1003					04	03
SEMT-	DC LISN	Schwarz beck	NNBM8126D	279	2021-06-	2022-06-
1060	DUCION	Schwarz Deck	ININDIVIO 120D	219	04	03
SEMT-	DO LION				2021-06-	2022-06-
1061	DC LISN	Schwarz beck	NNBM8126D	280	04	03
SEMT-				CAT3-8158-	2021-06-	2022-06-
1085	8-WIRE LISN	Schwarz beck	🔊 8158	0059	04	03
	T. T	. F	F.		2021-06-	
SEMT-	8-WIRE LISN	Schwarz beck	8158	CAT5-8158-		2022-06-
1086				0117	04	03
SEMT-	Clamp	Schwarz beck	MDS21	3809	2021-06-	2022-06-
1005	Clamp		MBOZT	0000	04	03
SEMT-	Loon Antonno			711001	2021-06-	2022-06-
1014	Loop Antenna	EVERFINE	LLA-2	> 711001_>	04 🛁	03
SEMT-		ST S	F		2021-06-	2022-06-
1071	VDH Test Head	AFJ 💉	VDH 30	SC022Z	04	03
SEMT-	Digital Power	California			2021-06-	2022-06-
1056		Instrument	CTS	72831	04	03
	Analyzer		5004IV 0T0			
SEMT-	Power Source	California	5001IX-CTS-	25965	2021-06-	2022-06-
1057		Instrument	400		04	03
SEMT-	ESD Generator	TESQ AG	NSG 437	161	2021-06-	2022-06-
1027			1100 437		04	03 🔊
SEMT-			00404	0040104077	2021-06-	2022-06-
1055	Signal Generator	HP	8648A	3642U01277	04	03
SEMT-			. S .	C	2021-06-	2022-06-
1008	Amplifier	Agilent	8447F 🚽	3113A06717	04	03
	- JY	- Sr - S	r sr	JY		
SEMT-	Amplifier	Agilent	8447D	2944A10179	2021-06-	2022-06-
1067					04	03
SEMT-	Transient 2000	EMC PARTNER	TRA2000	863	2021-06-	2022-06-
1024			11172000	005	04	03
SEMT-	CS Immunity	ENTE OF			2021-06-	2022-06-
1045	Tester	EMTEST	CWS500	0900-03	04	03

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2 - SYSTEM TEST CONFIGURATION

2.1 Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

2.2 EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software offered by manufacture, can let the EUT being normal operation.

2.3 Equipment Modifications

The EUT tested was not modified by HY.

2.4 Basic Configuration of Test System



2.5 Test Setup Diagram













3 - DISTURBANCE VOLTAGE AT THE MAINS TERMINALS

3.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is 3.4 dB.

3.2 Limit of Disturbance Voltage at The Mains Terminals (Class B)

Frequency Pange (MHz)	Limits	(dBuV)
Frequency Range (MHz)	Quasi-Peak	Average
0.150~0.500	66~ <u>~</u> _56	59~46
0.500~5.000	56	46 ,50
5.000~30.00	60	50

Note: (1)The tighter limit shall apply at the edge between two frequency bands.

3.3 EUT Setup

The setup of EUT is according with CISPR 16-1: 2002, CISPR16-2: 2002 measurement procedure. See following test setup figure. The specification used was the EN 55014-1 limits.

The EUT was placed center and the back edge of the test table.

The AV cables were draped along the test table and bundled to 30-40cm in the middle.

The spacing between the peripherals was 10 cm.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.



3.4 Instruments Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

Detector.....Peak & Quasi-Peak & Average Sweep Speed.....Auto IF Band Width......9 KHz

3.5 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first Artificial Mains.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the peak detection mode. Quasi-peak and Average readings were only performed when an emission was found to be marginal (within -10 dB_µV of specification limits). Quasi-peak readings are distinguished with a "**QP**". Average readings are distinguished with a "**AV**".

3.6 Summary of Test Results

According to the data in section 3.6, the EUT complied with the EN 55014-1 Conducted margin.

3.7 Disturbance Voltage Test Data

Temperature (°C)	15~35
Humidity (%RH)	2 2 30~60 2
Barometric Pressure (mbar)	860~1060
EUT	Air Heater
M/N	XH-3010
Operating Mode	ON

Test data see following pages

3.8 Test Result



Pass









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1	Freq	Read Level	Factor	Level	Limit Line	Over Limit	LISN Factor	Cable Loss	Remark	R
	MHz	dBu∛	dB	dBuV	dBuV	dB	dB	dB		
1 2 3 4 5	2.72 6.42	26.68 18.18 27.25 25.84 45.35	10.26 10.48 10.59	36.52 28.44 37.73 36.43 56.31	56.00 56.00 60.00	-28.20 -27.56 -18.27 -23.57 -3.69	9.84 9.85	0.05 0.42 0.63 0.71 0.95	Peak Peak Peak	JP AC

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Sector States	Cable Loss	Remark		
ji -	MHz	dBu∛	dB	dBuV	dBuV	dB	dB	dB		JA	NUP
1	2.66	3.81	10.47	14.28		-31.72			Average		
2 3	5.87	-0.68	10.57	9.89	50.00	-40.11	9.87	0.70	Average		
3	24.27	6.23	11.01	17.24	50.00	-32.76	10.03	0.98	Average	2	
4	28.91	10.61	11.14	21.75	50.00	-28.25	10.06	1.08	Average	JF.	SF

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2.59 0.60 10.46 11.06 46.00 -34.94 24.27 7.17 10.95 18.12 50.00 -31.88 28.91 9.89 11.10 20.99 50.00 -29.01

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3

4

5

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9.85

9.97

10.02

0.61 Average

0.98 Average

1.08 Average

4 - DISTURBANCE POWER

4.1 Limit of Disturbance Power

Frequency Range (MHz)	Limit (dBpW)					
	Quasi-Peak	Average				
30~300	45~55	35~45				

Note: (1) The limit line is a linear line.

4.2 EUT Setup

The setup of EUT is according with CISPR 16-1: 2002, CISPR16-2: 2002 measurement procedure. See following test setup figure. The specification used was the EN 55014-1 limits.

The EUT was placed at the edge of the test table so as to make the end of the lead close to the EUT as short as possible between the power clamp and the EUT.

The spacing between the peripherals was 10 cm.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.



4.3 Instruments Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

Frequency Range	30 MHz to 300 MHz
Detector	Peak & Quasi-Peak & Average
Sweep Speed	Auto
IF Band Width	9 KHz

4.4 Test Procedure

The associated equipment under test is placed on a non-metallic table of 0.8 m of height above the floor and at least 0.4 m from other objects and from any person. The lead to be measured shall be stretched in a straight horizontal line for a length sufficient to accommodate the absorbing clamp and to permit the necessary adjustment of its position for tuning. The absorbing clamp is placed around the lead to be measured, with its current transformer towards the equipment under test, so as to measure a quantity proportional to the disturbance power on the lead.

Any other lead less than that to be measured shall either be disconnected, if mechanically and functionally possible, or fitted with ferrite rings to attenuate RF currents which may affect the measurement results. Such a lead shall be stretched away from the connected unit in a direction perpendicular to the direction of the lead to be measured.

All connectors not used shall be left un-terminated. All connectors having a connected lead shall be terminated in a manner representative of use. If the leads are screened and normally terminated in a screened unit, then the termination shall be screened.

4.5 Disturbance Power Test Data

Temperature (°C)	ు 15~35 ు	~
Humidity (%RH)	F 30~60	, F
Barometric Pressure (mbar)	860~1060	
EUT	Air Heater	1
M/N	XH-3010	1
Operating Mode		1
N N		,F

4.6 Test Plot(s) for Disturbance Power

Plot(s) of Conducted Emissions Test Data is presented hereinafter as reference.

4.7 Test Result





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>	No.	(MHz) 35.2512	(dBuV/m) 40.87	(dB/m)	(dBuV/m) 26.77	(dBuV/ 40.00	(dB) -13,23	Detector	(cm)	(deg)	Remark	- 5
	2	56.3948		-15.05	17.63	40.00	-22.37	peak				-
	3	117.7725	44.83	-21.18	23.65	40.00	-16.35	peak				
	4	170.7926	54.55	-22.50	32.05	40.00	-7.95	peak				
	5	428.0193	34.30	-12.31	21.99	47.00	-25.01	peak				
	6	884.5029	34.51	-5.03	29.48	47.00	-17.52	peak				-6
			5	,5'		3	J'		,51		J' .J	7









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5 - HARMONIC CURRENT TEST (EN 61000-3-2)

5.1 Application of Harmonic Current Emission

Compliance to these standards ensures that tested equipment will not generate harmonic currents at levels that cause unacceptable degradation of the main environment. This directly contributes to meeting compatibility levels established in other EMC standards, which defines compatibility levels for low-frequency conducted disturbances in low-voltage supply systems.

5.2 Measurement Data

1 1		-Y -Y
Standard used	EN/IEC 61000-3-2 A14 (2006) Quasi	-stationary - Equipment class B
Observation time	150s	
Windows width:	10 periods - (EN/IEC 61000-4-7 Editi	on 2000) 📣 📣
EUT	Air Heater	HUM HUM AN
M/N	XH-3010	ř
Operating Mode	ON	
4		

5.3 Test Results

Pass











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6 - VOLTAGE FLUCTUATIONS AND FLICKER TEST (EN 61000-3-3)

6.1 Application of Voltage Fluctuations and Flicker Test

Compliance to these standards ensures that tested equipment will not generate flickers and voltage change at levels that cause unacceptable degradation of the main environment. This directly contributes to meeting compatibility levels established in other EMC standards, which defines compatibility levels for low-frequency conducted disturbances in low-voltage supply systems.

6.2 Measurement Data

		12
Standard used	EN/IEC 61000-3-3 Flicker	
Short time (Pst)	10 min	
Observation time	10 min_(1 Flicker measurement)	2
Flickermeter	DC3.7V	7
EUT	Air Heater	
M/N	XH-3010	
Operating Mode	ON JA JA JA JA JA	P
Test Result	PASS	

Maximum Flicker results

	EUT values	Limit	Result
Pst 2	0.009	1.00	PASS -
dc [%]	0.002	3.30 🔊	PASS
dmax [%]	0.021	4.00	PASS
dt [s]	0.000	0.50	N PASS
-			~ ~

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6.3 Test Results

The EUT was subjected to the voltage fluctuations and flicker test required by EN 61000-3-3:2008







7 - EN 55014-2 MEASUREMENT INSTRUMENTATION

7.1 Electrostatic Discharge Test System

An EM TEST DITOC0103Z ESD simulator is used for all testing. It is capable of applying Electrostatic discharges in both contact discharge modes to 4 kV and air discharge modes to 8 kV in both positive and negative polarities. This is in accordance with the IEC 61000-4-2 basic EMC publication.

7.2 Electrical Fast Transient/Burst Immunity Test System

An EM Test UCS 500-M6 Immunity test system is used for all testing. It is capable of applying fast transients to the AC line at any phase angle with respect to the AC line voltage wave form and to attached cables via a capacitive coupling clamp in accordance with the IEC 61000-4-4 basic EMC publication.

7.3 Surge Immunity Test System

An EM Test UCS 500-M6 Immunity test system is used for all testing. Both positive and negative polarities of voltage up to 2kV were applied to the AC input lines. The coupling network defined in the standard was used.

7.4 Conducted Susceptibility Test System

An IFR 2032A signal generator and a set of Amplifier Research test system are used for the testing. EUT was tested from 0.15 MHz to 230 MHz with 1kHz sine wave, 80% modulation with 3Vr.m.s. CDN coupling and de-coupling networks was tested. During the tests, injected was applied to power line by using CDNs-6.2.2 method, and I/O lines was injected by using clamp injection-6.2.3.method.

7.5 Voltage Dips, Short Interruptions Immunity Tests System

An EM Test UCS 500-M6 Immunity test system is used for all testing. Test level as described in IEC 61000-4-11, section 5, titled "Test Levels".







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7.6 Equipment Test Table

IEC 61000-4-2: 1995 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on a insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.6 by 0.8-meter metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohms resistors in series. The EUT and attached cables are isolated from this metal sheet by *0.5-millimeter* thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

IEC 61000-4-3 and IEC 61000-4-4 specify that a tabletop EUT be placed on a non-conducting table 80 centimeters above a ground reference plane and that floor-mounted equipment shall be placed on an insulating support approximately 10 centimeters above a ground plane. During the IEC 61000-4-3 tests, the EUT is positioned on a table in a shielded semi-anechoic test chamber to reduce reflections from the internal surfaces of the chamber. During the IEC 61000-4-4 tests, the EUT is positioned on a table over a ground reference plane in conformance with this requirement.

7.7 Instrument Calibration

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications.

Extensive engineering efforts have been made to ensure test data reliability through Quality Control and regular equipment calibration schedules. However, the application of radio frequency fields and voltages are not without an unavoidable level of uncertainty. These include inaccuracies in antenna factors, chamber imperfections and possible test generator output uncertainties.



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8 - EN 55014-2 TEST PROCEDURES

8.1 EUT and Cable Placement

The EUT and any peripherals are located at the center of the table for tabletop devices and in the center of the ground plane with the insulating support for floor-standing devices. The standards require that interconnecting cables to be connected to available ports of the unit and that the placement of the unit and the attached cables simulate a typical installation so far as to be practical.

8.2 Application of Electrostatic Discharge Immunity Test

The test is conducted in the following order according to the basic standard IEC 61000-4-2: Air Discharge, Direct Contact Discharge, Indirect Contact Horizontal Coupling Plane Discharge, and Indirect Contact Vertical Coupling Plane Discharge. The Electrostatic Discharge test levels are set and discharges for the different test modes are set appropriately. The Electrostatic Discharge is applied to the conductive surface of the computer in which the EUT is enclosed, and along all seams and control surfaces on the computer. When a discharge occurs and an error is caused, the type of error, discharge level and location is recorded.

8.3 Application of Electrical Fast Transient/Burst Immunity Test

The EUT was arranged for Power Line Coupling and for I/O Line Coupling through a capacitive clamp, where applicable. (Note: The I/O coupling test using a capacitive clamp is performed on the I/O interface cables that are longer in length than 3 meters.) A metal ground plane 2.4 meter by 2.0 meter was placed between the floor and the table and is connected to the earth by a 2.0 meter ground rod. The ground rod is connected to the test facility's electrical earth.

8.4 Application of Surge Immunity Test

The EUT was setup as described in IEC 61000-4-5 and the test shall be performed according to the test plan.

8.5 Application of Conducted Susceptibility Test

The EUT was setup according to the IEC 61000-4-6 and the test shall be performed with the test generator connected to each of the coupling and decoupling devices in turn while the other non-excited RF input ports of the coupling devices are terminated by a 50 Ω load resistor. The frequency range is 150kHz to 230 MHz.

8.6 Application of Voltage Dips, Short Interruptions Immunity Tests

The EUT was setup according to the IEC 61000-4-11 and the test shall be done as the procedure described in the standard.

8.7 Deviations from the Standard

No deviations from EN 55014-2 were made when performing the tests described in this report.

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9 - TEST DATA

9.1 Electrostatic Discharge Immunity Test (IEC 61000-4-2)

15~35]
ు సు30~60 సి	0
F 860~1060 F	F
Air Heater	1
XH-3010]
S S ON S S	
	30~60 860~1060 Air Heater XH-3010

Table 1: Electrostatic Discharge Immunity (Air Discharge)

IEC 61000-4-2 Test Points			Test Levels									
		-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV	
Slots	4 points	А	А	А	А	А	А	А	А	1	1	
Shell	8 points	А	А	А	А	А	А	А	А	1	1	
Button	10 points	А	Α	А	А	А	А	А	А	1	1	
N.	, r		.F		.r		~	, r		, r		

Table 2: Electrostatic Discharge Immunity (Direct Contact)

IEC 61000-4-2 Test		Test Levels									
Points	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV	
N/A	/	/	/	/	1	/	/	1	/	1	

 Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)

					Test			-)		
IEC 61000-4-2 Test					Test	evels				
Points	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV
Front Side	Α	А	А	А	Ι	Ι	1	1	Ι	Ι
Back Side	Α	А	А	А	1	1	1	1	1	1
Left Side	А	А	А	А	1	1	1	1	1	1
Right Side	А	А	А	А	1	1	1	1	1	1

Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)

.)	>							.)			1
IEC 61000-4-2		_	_	_	Test l	_evels	_	_	_	_	SP
Test Points	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV	
Front Side	А	Α	Α	Α	1	1	1	1	1	1	1
Back Side	А	Α	Α	Α	1	1	Ι	1	1	1	
Left Side	А	Α	Α	Α	1	1	1	1	1	1	P
Right Side	А	Α	Α	Α	1	1	1	1	1	1	1

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9.2 Electrical Fast Transient/Burst Immunity Test (IEC 61000-4-4)

	7	D D	V	. 7
Temperature (°C)		15~35		3.
Humidity (%RH)		30~60		
Barometric Pressure (mbar)		860~1060		
EUT		Air Heater		
M/N		XH-3010		1
Operating Mode		ON		

IEC 6100	IEC 61000-4-4		Test Levels (kV)							, P
Test Poi	nts	+0.5	-0. 5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0	5.
	L1	А	А	А	А	1	Ι	1	1	
70 7	L2 L2	А	А	А	А	1	Ι	1	1	P
Power Supply	Earth	1	1	1	1	1	1	1	1	5,
	L1+L2	А	А	А	А	1	1	1	1	
Power Line of EUT	L1 + Earth	1	1	1	1	1	1	1	1	
JAL JAL	L2 + Earth	1	1	1	1	1	1	1	1	5
	L1+L2+Earth	1	Ι	Ι	Ι	1	1	1	1	

9.3 Surge Immunity Test (IEC 61000-4-5)

E E		The state	F
Temperature (°C)	1 ¹⁰ . 1 ¹⁰ .	ي 15~35 کې 15~35	2,
Humidity (%RH)	3	30~60	
Barometric Pressure (mbar)	86	0~1060	
EUT	Air	r Heater	F
M/N	XI	H-3010	2
Operating Mode		ON	

Level	Voltage	Poll	Path	Pass	Fail	,FT
× [×] 1	0.5kV	±	L-N	A	1	
2	1kV	±	L-N	A	1	
3	2kV	±	L-PE, N-PE	/	1	
4	4kV	ŧ	L-N, L-PE, N-PE	1	1	42
2	N.	N.	10. 10.	2		0



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9.4 Conducted Susceptibility Test (IEC 61000-4-6)

Frequency Range (MHz): 0.15~80MHz Modulation: Amplitude 80%, 1kHz sinewave Severity Level: 3Vr.m.s.

Temperature (°C)	<u>کا ۲</u>	0	
Humidity (%RH)	ST 30~60 ST	AC	SP
Barometric Pressure (mbar)	860~1060	× ×	
EUT	Air Heater		
M/N	XH-3010		
Operating Mode	ON		,F
			\sim

Level	Voltage Level (e.m.f.) U₀	Pass	Fail	
NAC 1	UP 1,UP	1	1	SP
2	3	А	1	
3	10	1	/	
X	Special V	1	1	
Jr	Jr Jr	Jr Jr	Jr Jr	JP.

9.5 Voltage Dips, Short Interruptions Immunity Tests (IEC 61000-4-11)

<u>_</u>	-22	4
J 30~60 J	NA	Jr.
860~1060	Κ	<
Air Heater		
XH-3010		1
ON		SP
	30~60 860~1060 Air Heater XH-3010	30~60 860~1060 Air Heater XH-3010

Level	U2	td	Phase Angle	N	Pass	Fail
1,5	95%	10ms	0/90/180/270	3	В	/
52	30%	1000ms	0/90/180/270	3 . JP	С	/
3	60%	200ms	0/90/180/270	3	С	/

Note:

- A. The apparatus shall continue to operate as intended during and after the test. The manufacturer specifies some minimum performance level. The performance level may be specified by the manufacturer as a permissible loss of performance.
- B. The apparatus shall continue to operate as intended after the test. This indicates that the EUT does not need to function at normal performance levels during the test, but must recover. Again some minimal performance is defined by the manufacture. No change in operating state or loss or data is permitted.
- C. Temporary loss of function is allowed. Operation of the EUT may stop as long as it is either automatically reset or can be manually restored by operation of the controls.



10 - TEST RESULTS

The following tests were performed on the **JieYang City Maist Plastic Products Co.,Ltd.** 's product; model: **XH-3010** ; the actual test results are contained within the Test Data section of this report

10.1 IEC 61000-4-2 Electrostatic Discharge Immunity Test Configuration

The EUT was subjected to the electrostatic discharge tests required by EN 55014-2 and all lower levels specified in IEC 61000-4-2.

The EUT continued to perform as intended during and after the application of the ESD. Test setup photographs presented in Appendix C.

10.2 IEC 61000-4-4 Electrical Fast Transient/Burst Immunity Test Configuration

The EUT was subjected to the electrical fast transient tests required by EN 55014-2 and all lower levels specified in IEC 61000-4-4.

The EUT continued to perform as intended during and after the application of the EFT/B. Test setup photographs presented in Appendix C.

10.3 IEC 61000-4-5 Surge Immunity Test Configuration

The EUT was subjected to the Surge Immunity tests required by EN 55014-2 and all lower levels specified in IEC 61000-4-5.

The EUT continued to perform as intended during and after the application of the Surge *Immunity Test.* Test setup photographs presented in Appendix C.

10.4 IEC 61000-4-6 Conducted Susceptibility Test Configuration

The EUT was subjected to the Conducted Susceptibility tests required by EN 55014-2 and all lower levels specified in IEC 61000-4-6.

The EUT continued to perform as intended during and after the application of the Conducted Susceptibility Test. Test setup photographs presented in Appendix C.

10.5 IEC 61000-4-11 Voltage Dips, Short Interruptions Immunity Tests Configuration

The EUT was subjected to the Voltage Dips/Interruptions tests required by EN 55014-2 and all lower levels specified in IEC 61000-4-11.

The EUT continued to perform as intended during and after the application of the Voltage Dips/Interruptions Test. Test setup photographs presented in Appendix C.

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APPENDIX A - PRODUCT LABELING

CE Marking Label Specification

Specification: Text is Black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.

F

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 4

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Proposed Label Location on EUT

Proposed CE Marking Location

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EUT View 4





FLV F

EUT View 5

Photo 5

Certificate of Conformity

Certification Number: HY21LC-003S

Shenzhen HuaYu Test Technology Co.,Ltd. hereby declares that testing has been completed and reports have been generated for:

Applicant:	JieYang City Maist Plastic Products Co.,Ltd.
Address:	JingLian Society, TangPu Village, FengMei Office, Airport Economic
	Area, JieYang City
Manufacturer:	JieYang City Maist Plastic Products Co.,Ltd.
Address:	JingLian Society, TangPu Village, FengMei Office, Airport Economic
Address.	Area, JieYang City
Factory:	JieYang City Maist Plastic Products Co.,Ltd.
Address:	JingLian Society, TangPu Village, FengMei Office, Airport Economic
Address.	Area, JieYang City
Product:	Air Heater
Model:	XH-3010, XH-1201, XH-301R, XH-302R, XH-303R, XH-401R, XH-402R, XH-403R,
	XH-501R, XH-502R, XH-601R, XH-602R, XH-801R, XH-802R, XH-803R, XH-901R,
	XH-902R, XH-1001R, XH-1002R, XH-1201R, XH-1202R, XH-1301R, XH-1302R,
	XH-1303R, XH-1501, XH-1601, XH-2021
Rating:	220-240V~ 50Hz 3000W Max
	EN60335-1: 2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019
Test standard:	EN60335-2-30: 2009/A11:2012+A1:2020+A12:2020
	EN62233:2008

The EUT described above has been consolidate by us and found in compliance with the council Low Voltage Directive -- 2014/35/FO. It is only valid in connection with the report number: HY21LR-0035

CE



This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole product and relevant. Directives have to be observed.

No. D880, 4th Floor, Building 1, Detai Industrial Park, Huarong Road No. 460, Dalang Street, Longhua

New District, Shenzhen

Shenzhen HuaYu Test Technology Co.,Ltd. http:

http://www.hyjctest.com

Certificate of Conformity

Certification Number: HY21LC-003E

Shenzhen HuaYu Test Technology Co.,Ltd. hereby declares that testing has been completed and reports have been generated for:

APPLICANT:	JieYang City Maist Plastic Produ	icts Co.,Ltd.
ADDRESS:	JingLian Society, TangPu Village,	FengMei Office, Airport Economic Area,
	JieYang City	
Manufacture:	JieYang City Maist Plastic Produ	icts Co.,Ltd.
Address:	JingLian Society, TangPu Village,	FengMei Office, Airport Economic Area,
1 IGG10 55.	JieYang City	
Factory:	JieYang City Maist Plastic Produ	icts Co.,Ltd.
Address:	JingLian Society, TangPu Village,	FengMei Office, Airport Economic Area,
7 Iddi 0 55.	JieYang City	
Product:	Air Heater	
Model:	XH-3010, XH-1201, XH-301R, XH-302R	R, XH-303R, XH-401R, XH-402R, XH-403R,
	XH-501R, XH-502R, XH-601R, XH-602R	R, XH-801R, XH-802R, XH-803R, XH-901R,
	XH-902R, XH-1001R, XH-1002R, XH-12	201R, XH-1202R, XH-1301R, XH-1302R,
	XH-1303R, XH-1501, XH-1601, XH-202	1
Rating:	220-240V~ 50Hz 3000W Max	
	EN 55014-1:2017+A11:2020	
Test standard:	EN 55014-2:2015	
i est stalluaru.	EN 61000-3-2:2019+A1:2021	
	EN 61000-3-3:2013+A1:2019	

The EUT described above has been consolidate by us and found in compliance with the council Electromagnetic Compatibility (as amended) - 2014/30/EU. It is only valid in connection with the report number;/HY21LR-003F





This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole product and relevant. Directives have to be observed.

No. D880, 4th Floor, Building 1, Detai Industrial Park, Huarong Road No. 460,

Dalang Street, Longhua New District, Shenzhen

Shenzhen HuaYu Test Technology Co.,Ltd. http://www.hyjctest.com

Registered / Enregistré 10/10/2022

No 009201411-0001



EUROPEAN UNION INTELLECTUAL PROPERTY OFFICE CERTIFICATE OF REGISTRATION

This Certificate of Registration is hereby issued for the Registered Community Design identified below. The corresponding entries have been recorded in the Register of Community Designs.

OFFICE DE L'UNION EUROPÉENNE POUR LA PROPRIÉTÉ INTELLECTUELLE CERTIFICAT D'ENREGISTREMENT

> Le présent Certificat d'Enregistrement est émis pour le Dessin ou Modèle Communautaire enregistré spécifié ci-dessous. Les inscriptions afférentes ont été portées au Registre des Dessins ou Modèles Communautaires.

The Executive Director / Le Directeur exécutif

hour

Christian Archambeau



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21 25 22 15 45 11 72 73 74	009201411-0001 EN - FR 10/10/2022 10/10/2022 13/10/2022 009201411-0001 Huang Chumin Jieyang Meister Plastic Products Co., Ltd. Economic Association, Tangpu Village, Fengmei Office, Airport Economic Zone Jieyang City, Guangdong Province REPÚBLICA POPULAR DE CHINA IPSIDE 6 Impasse Michel Labrousse F-31100 Toulouse FRANCIA 23 - 03 BG - Вентилаторни отплителни уреди
	ES - Calentadores con ventilador
	CS - Teplovzdušná topidla
	DA - Varmeblæsere
	 DE - Heizlüfter
	ET - Kütteventilaatorid
	<mark>ΕL</mark> - Αερόθερμα
	EN - Fan heaters
	FR - Ventilateurs chauffants
	IT - Termoventilatori
	LV - Ventilatora tipa sildierīces
	LT - Ventiliatoriniai šildytuvai
	HR - Ventilatorske grijalice
	HU - Fűtőventilátorok
	MT - Hiters b'fann
	NL - Ventilatorkachels
	PL - Grzejniki wentylatorowe
	PT - Termoventiladores
	R0 - Aeroterme
	<mark>SK</mark> - Ventilátorové ohrievače
	<mark>SL</mark> - Kaloriferji
	FI - Lämpöpuhaltimet
	<mark>SV</mark> - Värmefläktar

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