

1.0 Reference and Address			
Report Number	190600097HZH-001	Original Issued: 17-Sep-2019	Revised: 26-Apr-2024
Standard(s)	Fixed And Location-Dedicated Electric Room Heaters [UL 2021:2015 Ed.4+R:02Feb2021] Electric Air-Heaters (R2018) [CSA C22.2#46:2013 Ed.9]		
Applicant	Cixi Xinlun Electrical Appliance Co., Ltd	Manufacturer	Cixi Xinlun Electrical Appliance Co., Ltd
Address	Industrial Zone,Xinpu Town, Cixi City (Shui Xiang village), Zhejiang Province	Address	Industrial Zone,Xinpu Town, Cixi City (Shui Xiang village), Zhejiang Province
Country	China	Country	China
Contact	Mr.Michael Chen	Contact	Mr.Michael Chen
Phone	86-574-63567239	Phone	86-574-63567239
FAX	86-574-63567260	FAX	86-574-63567260
Email	xinlun@nbxinlun.com	Email	xinlun@nbxinlun.com

2.0 Product Description	
Product	Heater
Brand name	airvention
Description	The products covered by this test report are heaters intended for household, indoor & outdoor use. Provided with an attached flexible power supply cord terminated in a moulded grounding plug.
Models	PHF-1500, PHF-1500R, PHG-1500R TS12, TS15, TG12, TG15; maybe followed by R, RSD. T12-HR15B, T12-GR15B, T13-GR15B, T13-QR15B, T13-GR15BL, T13-QR15BL, AI-H500
Model Similarity	TS12,TG12 series are same as TS15,TG15 series except the different rated input power. Heating element is guarded by metal grille in TS12,TS15 series, by glass shield in TG12,TG15 series. Suffix R, RSD means the heater is controlled by electronic circuit, bluetooth speaker is incorporated in models with suffix RSD. Model number without any suffix are controlled by mechanical switch. PHG and PHF have similar construction except PHF-1500 is controlled by mechanical switch and thermostat, other models are controlled by electronic circuits. In T12, T13 series, different type of heating element indicated as: QR: quartz tube; GR: carbon fiber tube; HR: golden halogen tube T13-GR15BL/T13-QR15BL are same as T13-GR15B/T13-QR15B except the different overall length. (T13-GR15BL/T13-QR15B: 870mm, T13-GR15B/T13-QR15B: 610mm). AI-H500 is all same as PHG-1500R only except the model no..
Ratings	TS12, TG12: 120V, 60Hz, 1200W PHF-1500R, PHF-1500, PHG-1500R, TS15, TG15, T12-HR15B, T12-GR15B, T13-GR15B, T13-QR15B, T13-GR15BL, T13-QR15BL, AI-H500: 120V, 60Hz, 1500W
Other Ratings	NA

3.0 Product Photographs

Photo 1 - General view of TS15 and TS15RSD



Photo 2 - General view of TS15R

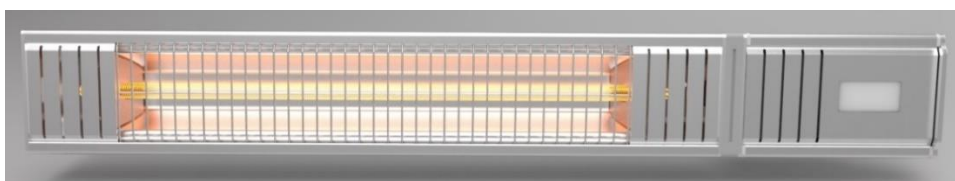
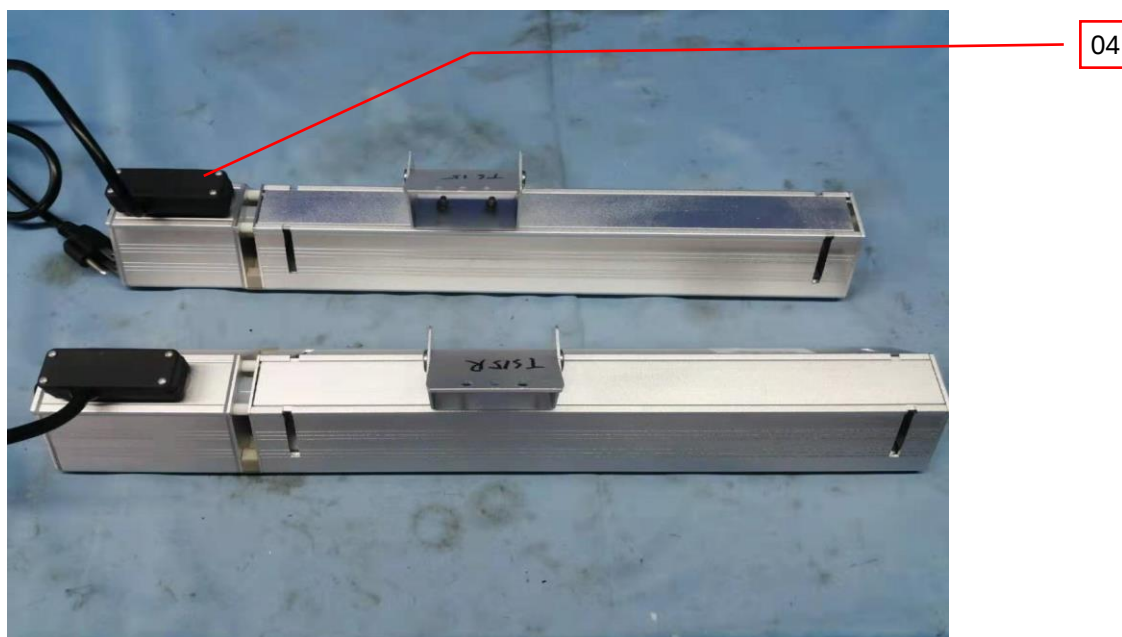


Photo 3 - Bottom view of TS15 and TS15RSD



3.0 Product Photographs

Photo 4 - General view of TG15RSD

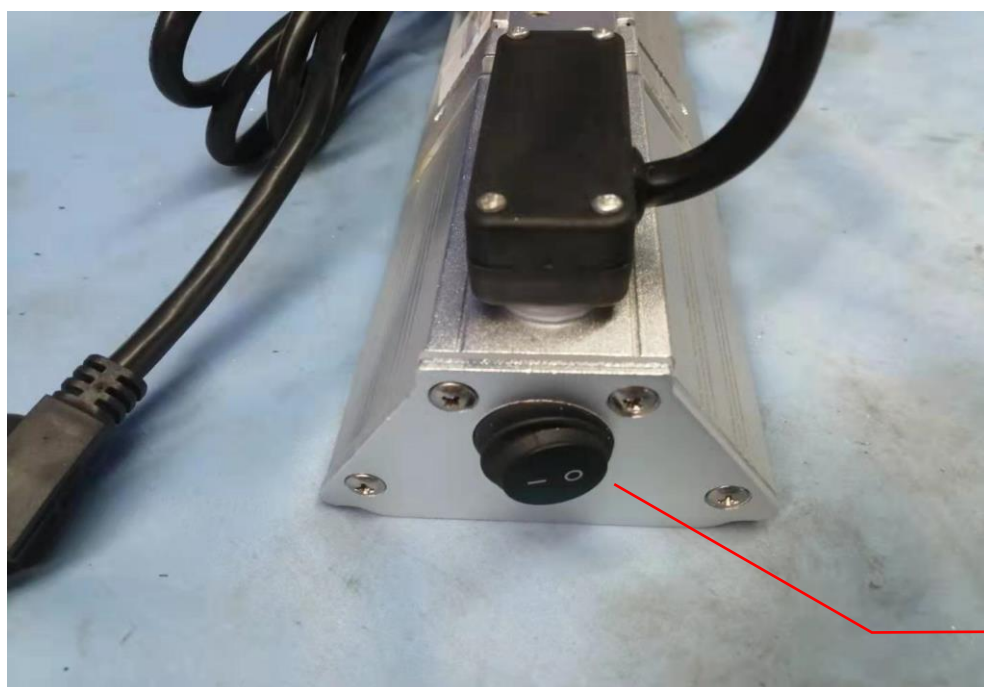


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Photo 5 - General view of TG15RSD



Photo 6 - Rocker switch on TS and TG series



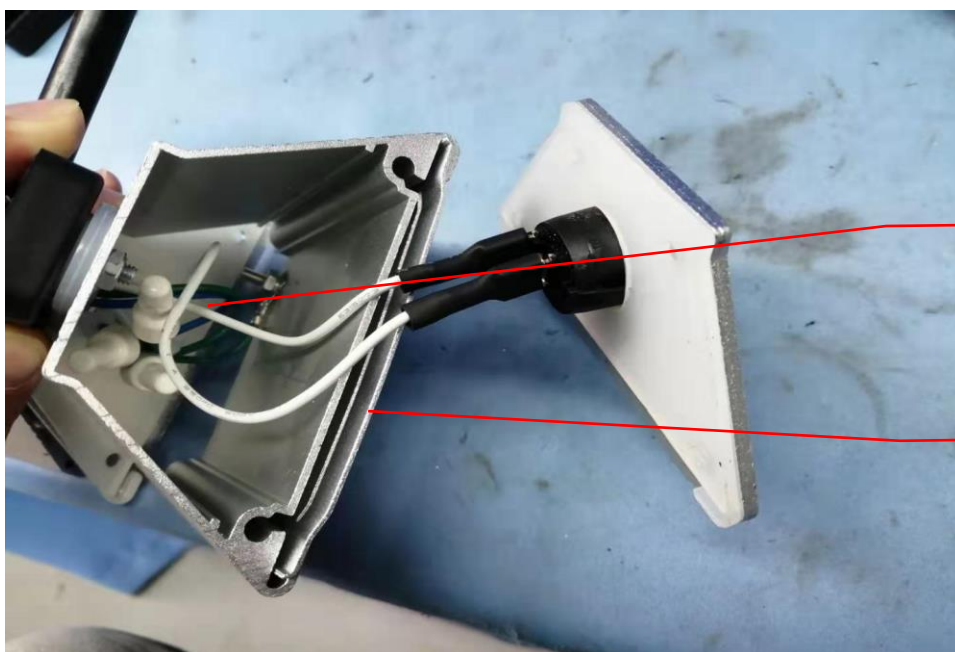
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3.0 Product Photographs

Photo 7 - Internal view of connection box



Photo 8 - Internal view of TS15 and TG15



3.0 Product Photographs

Photo 9 - Internal view of TS15RSD

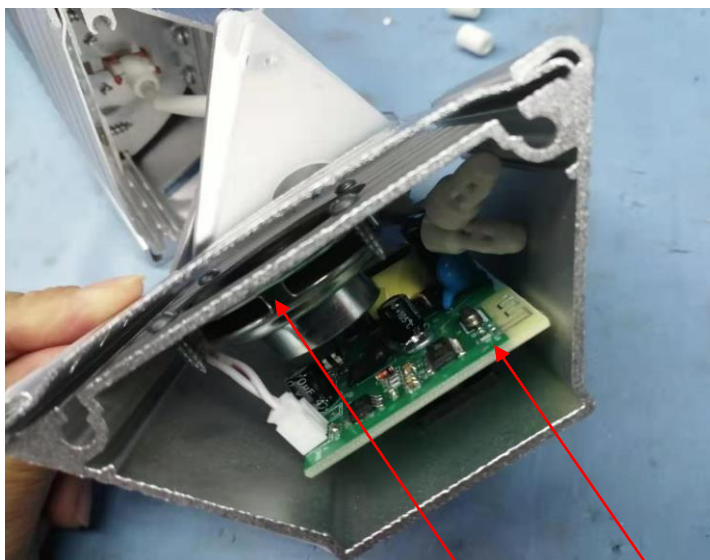
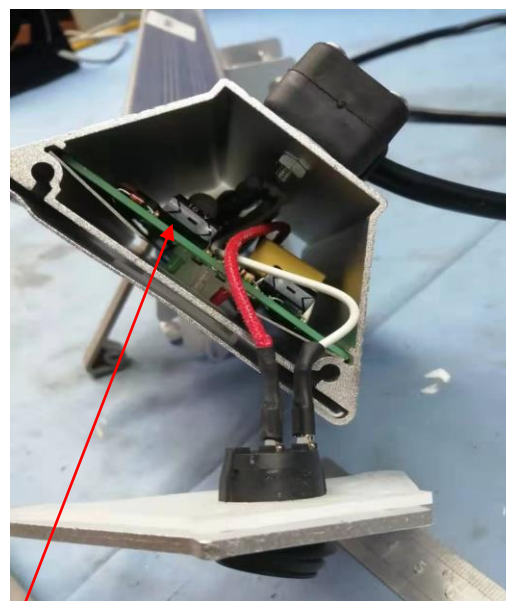
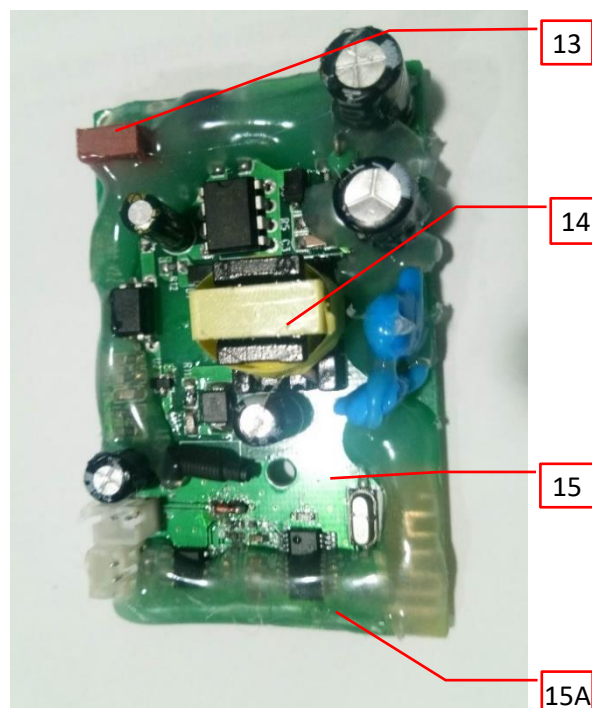
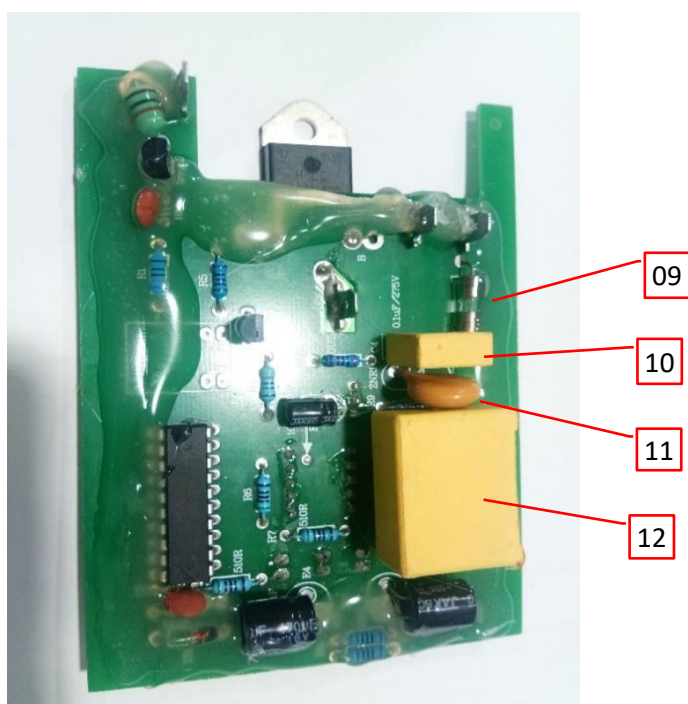


Photo 10 - Internal view of TS15RSD



spacing through air min 6.4mm and over surface 12.7mm from solder point to the metal enclosure

Photo 11 - PCB of TG15,TS15,TG12,TS12; followed by R, RSD **Photo 12** - PCB of TG15,TS15,TG12,TS12; followed by RSD



3.0 Product Photographs

Photo 13 - General view of PHF-1500



Photo 14 - General view of PHF-1500



Photo 15 - Internal view of PHF-1500



Photo 16 - General view of PHF-1500R



3.0 Product Photographs

Photo 17 - General view of PHF-1500R

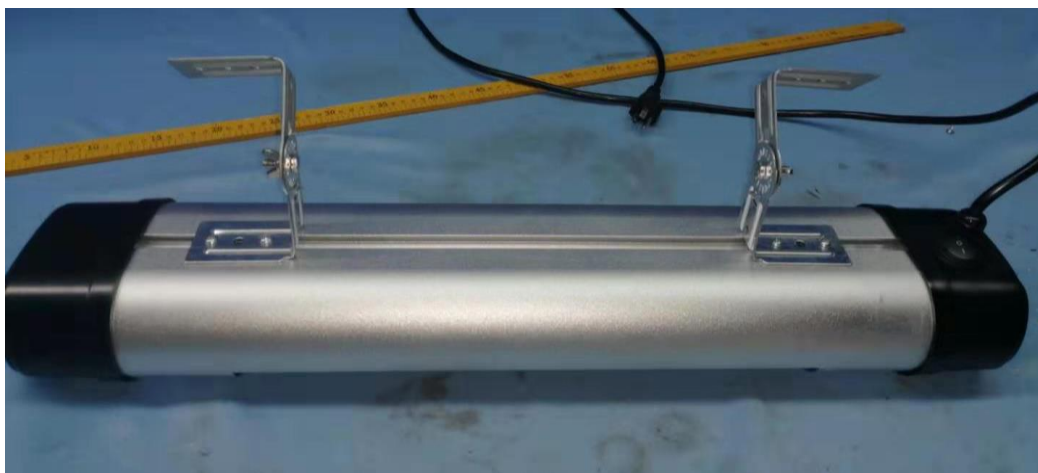
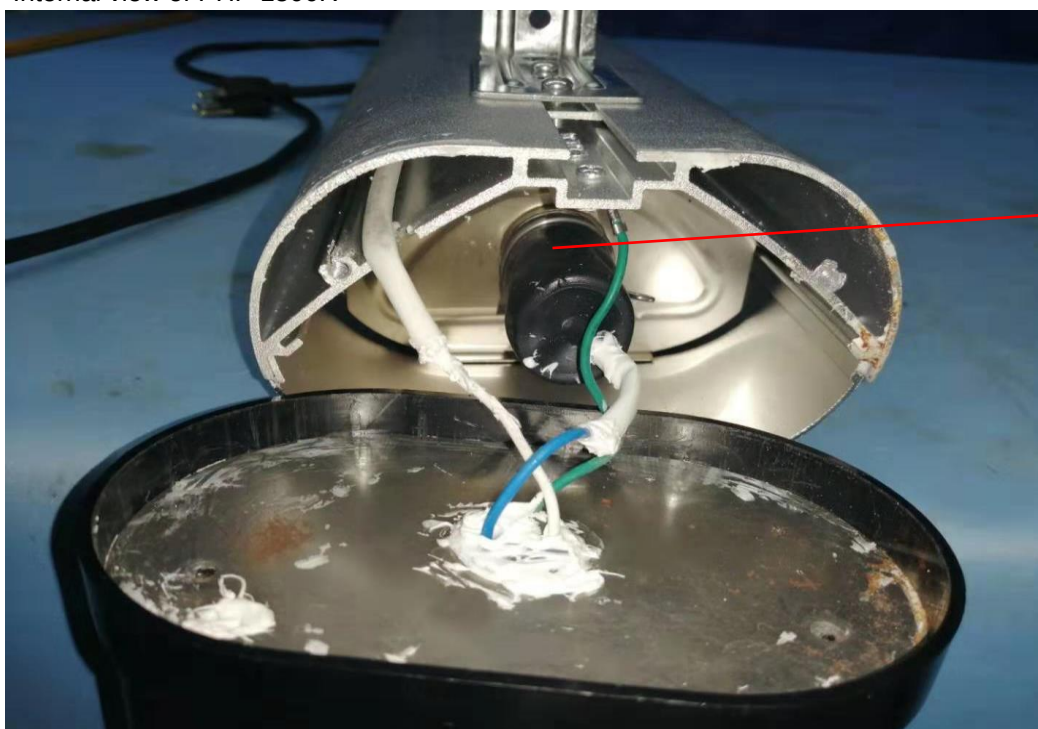


Photo 18 - Internal view of PHF-1500R



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3.0 Product Photographs

Photo 19 - Internal view of PHF-1500R

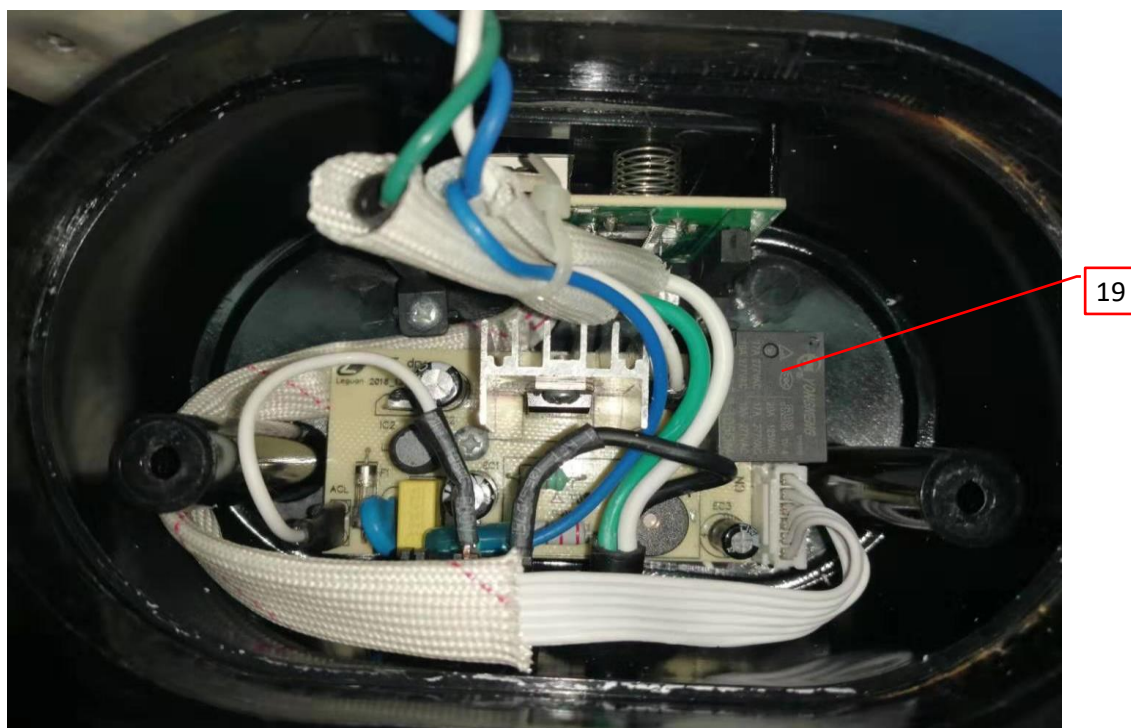


Photo 19A - Alternative internal view of PHF-1500R



3.0 Product Photographs

Photo 19B - Alternative PCB of PHF-1500R

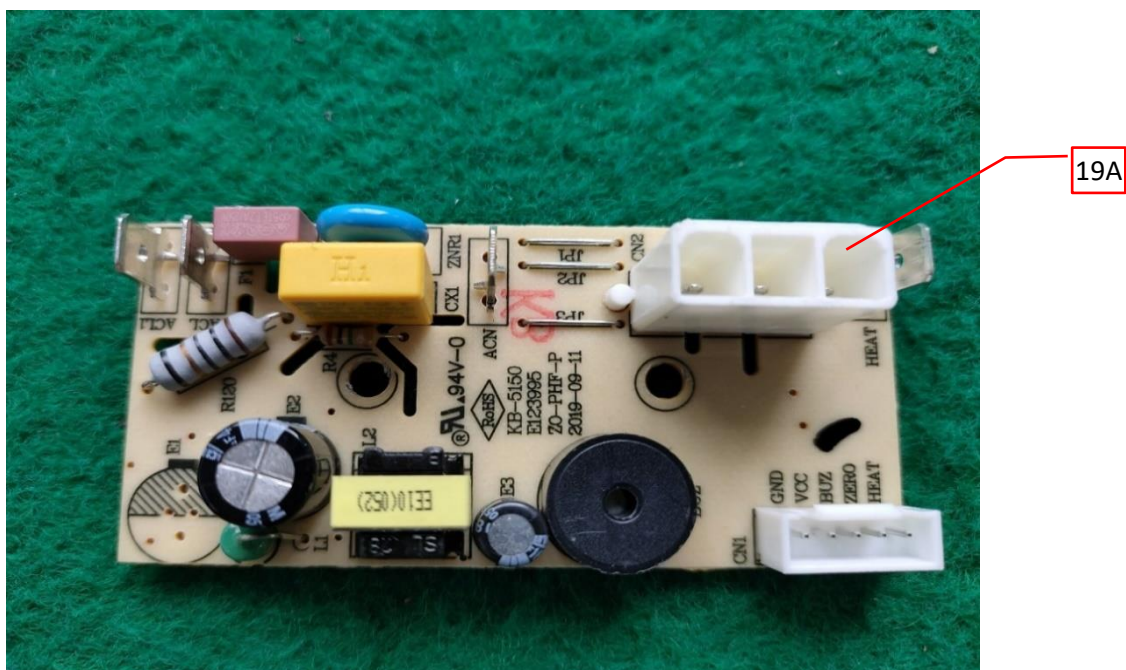


Photo 20 - General view of PHG-1500R



3.0 Product Photographs

Photo 21 - General view of PHG-1500R

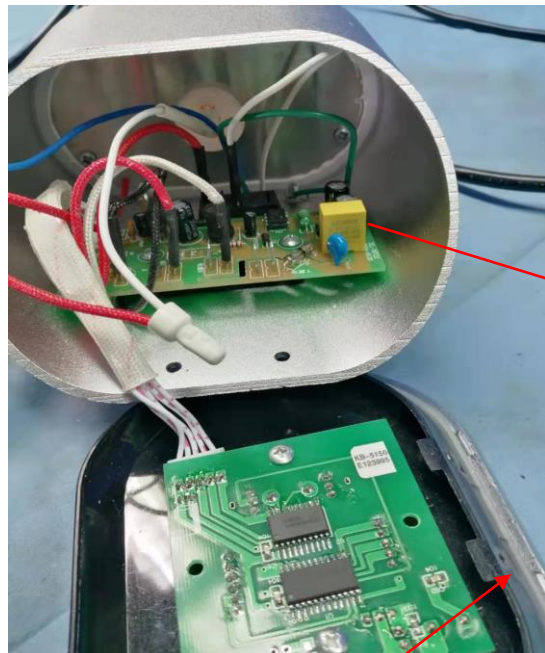


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Photo 22 - General view of PHG-1500R



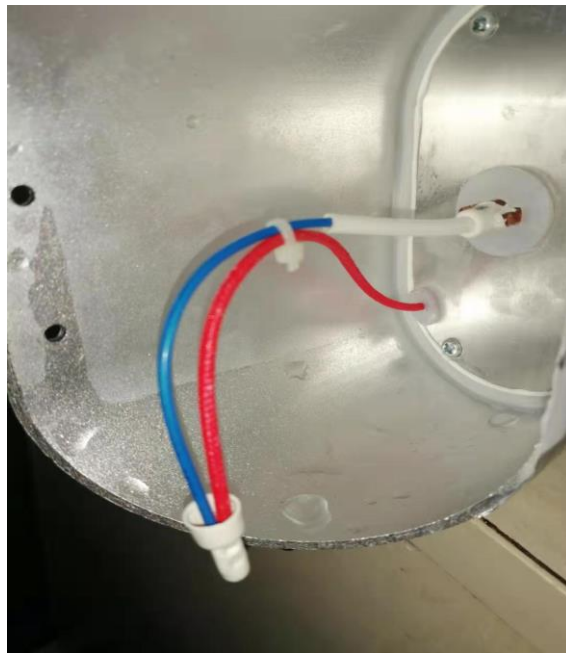
Photo 23 - Internal view of PHG-1500R



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waterproof washer

Photo 24 - Internal view of PHG-1500R



3.0 Product Photographs

Photo 25 - General view of T12-HR15B, T12-GR15B

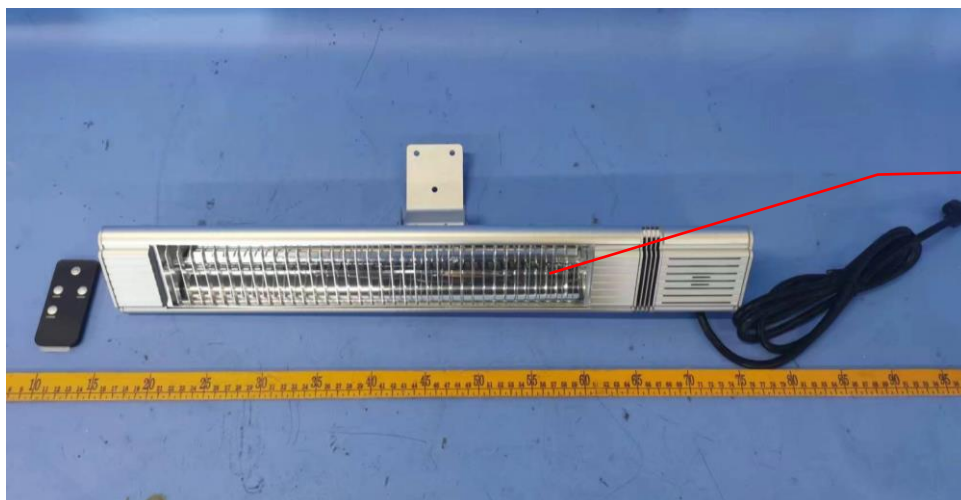


Photo 26 - General view of T12-HR15B, T12-GR15B

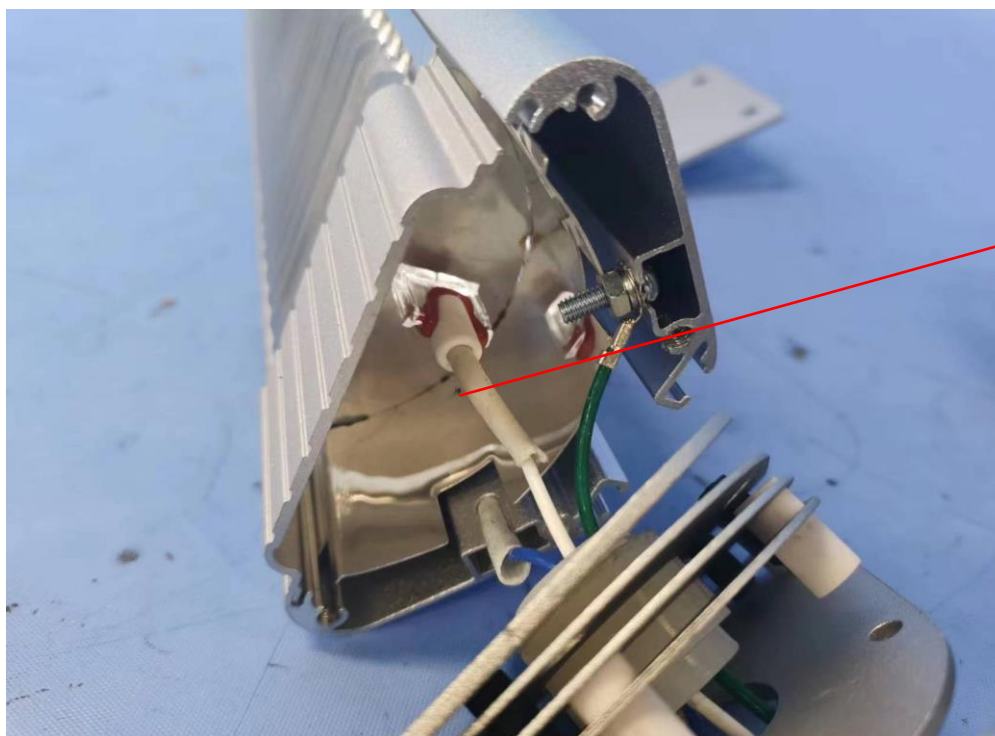


3.0 Product Photographs

Photo 27 - Internal view of connection box of T12-HR15B, T12-GR15B



Photo 28 - Internal view of T12-HR15B, T12-GR15B



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3.0 Product Photographs

Photo 29 - Internal view of T12-HR15B, T12-GR15B

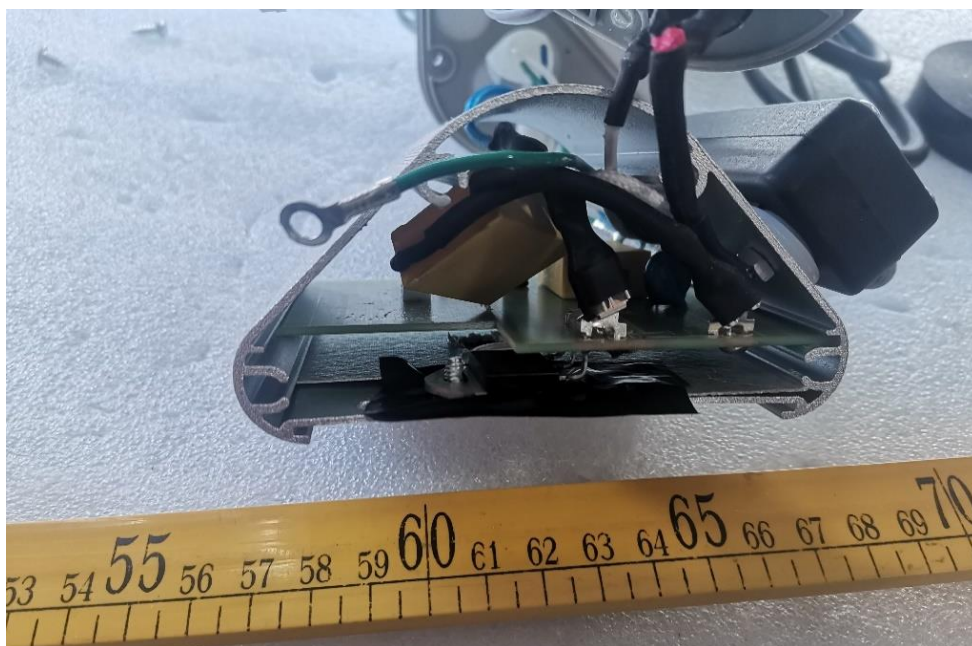
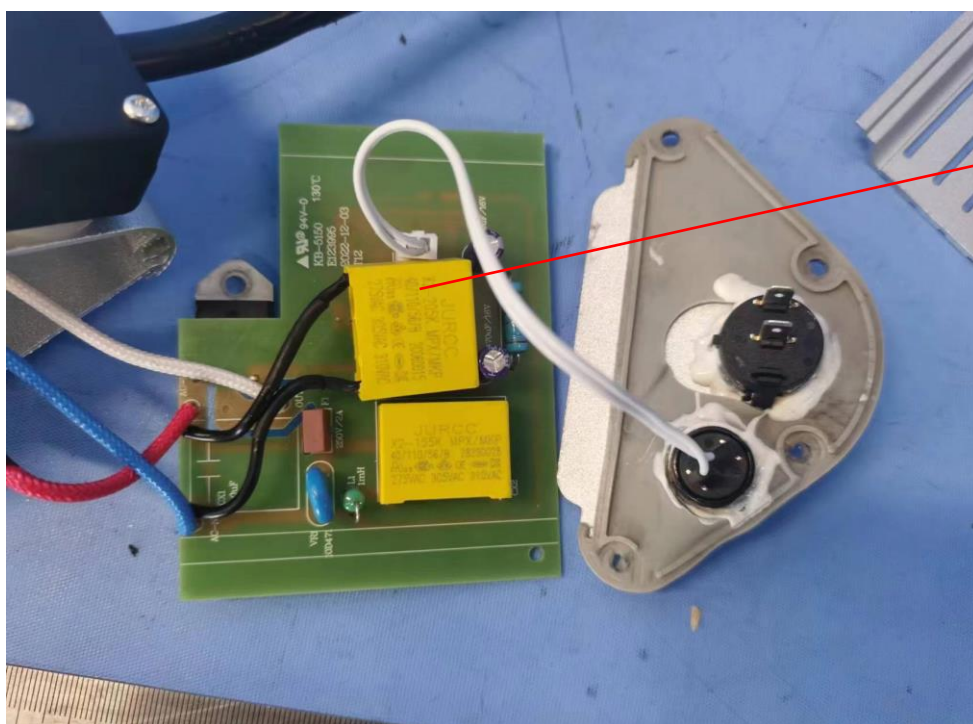


Photo 30 - Internal view of T12-HR15B, T12-GR15B



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3.0 Product Photographs

Photo 31 - General view of T13 series

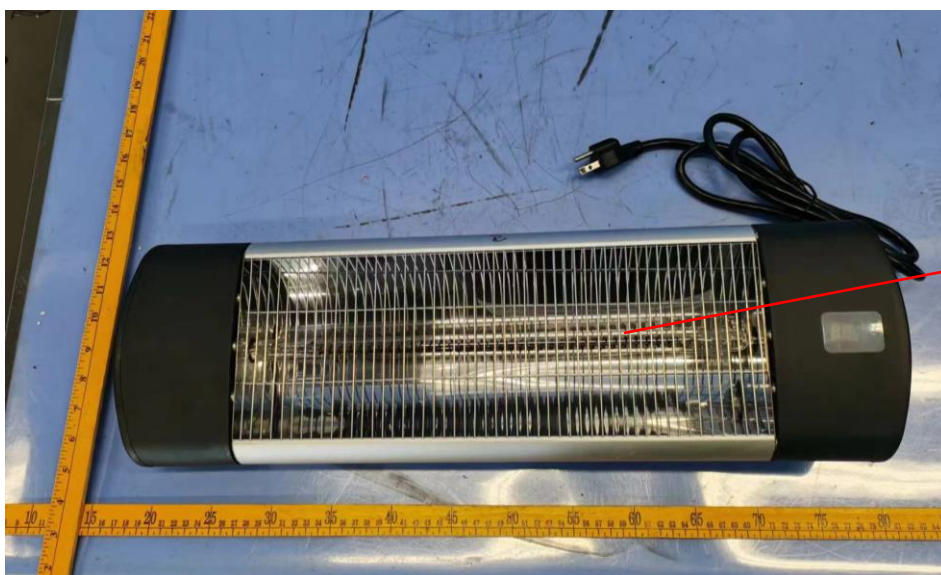
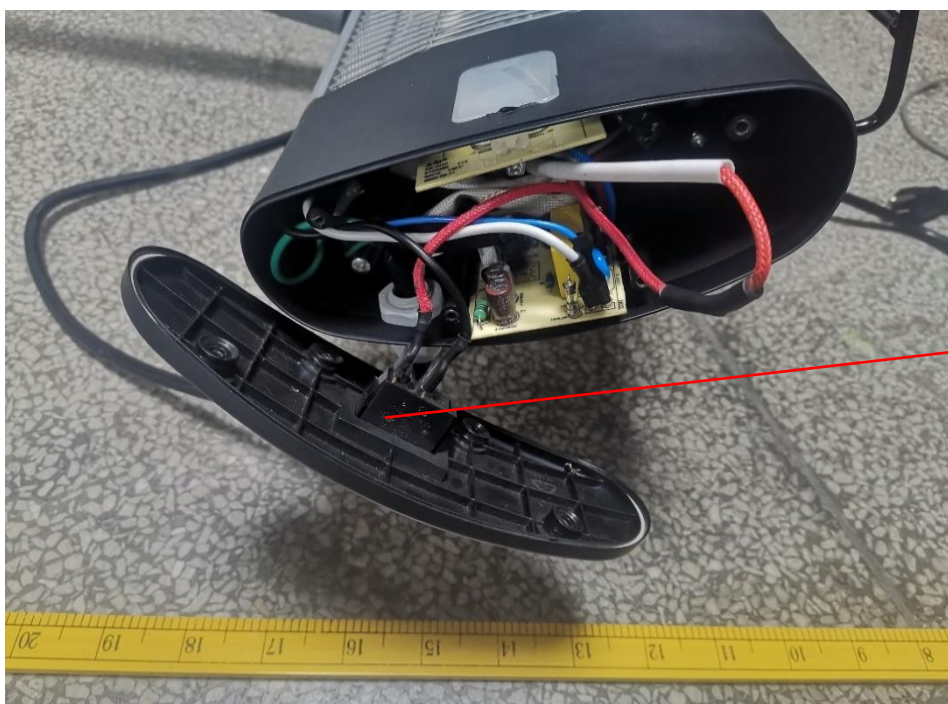


Photo 32 - Internal view of T13 series



3.0 Product Photographs

Photo 33 - PCB assembly view of T13 series

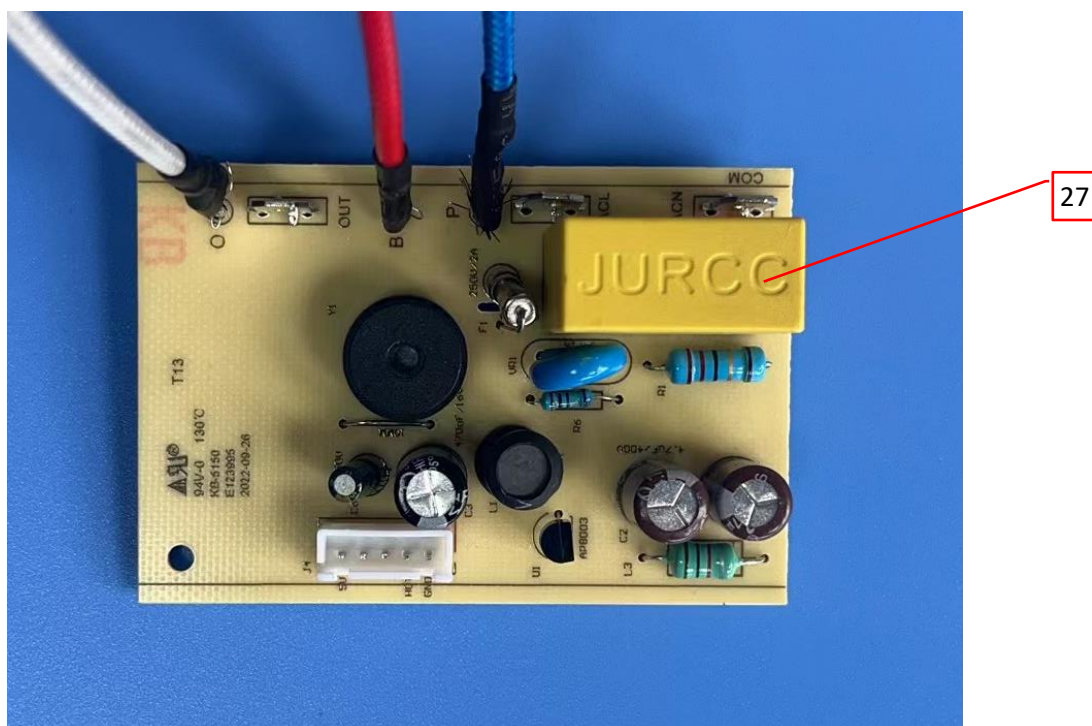
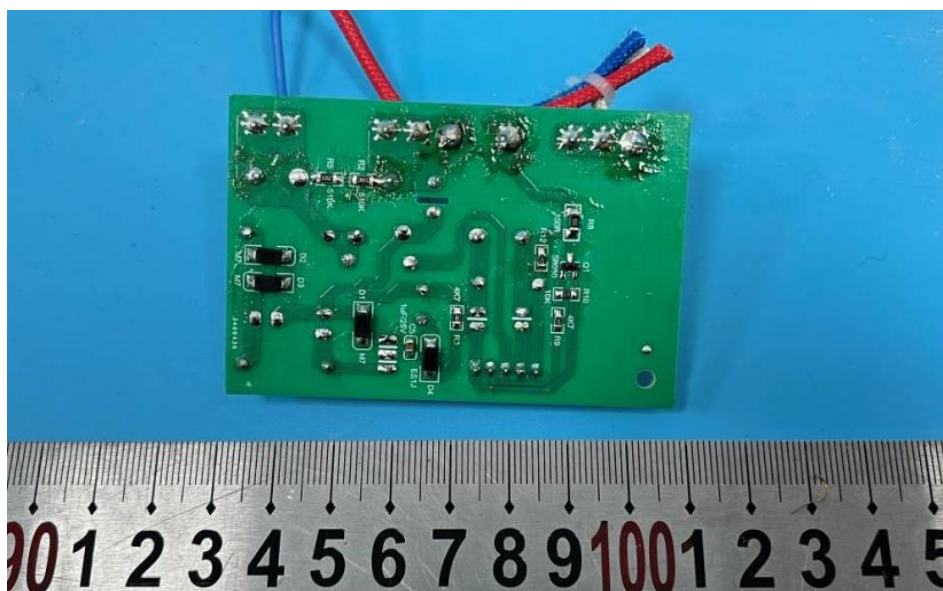


Photo 34 - PCB assembly view of T13 series



3.0 Product Photographs

Photo 35 - General view of remote controller

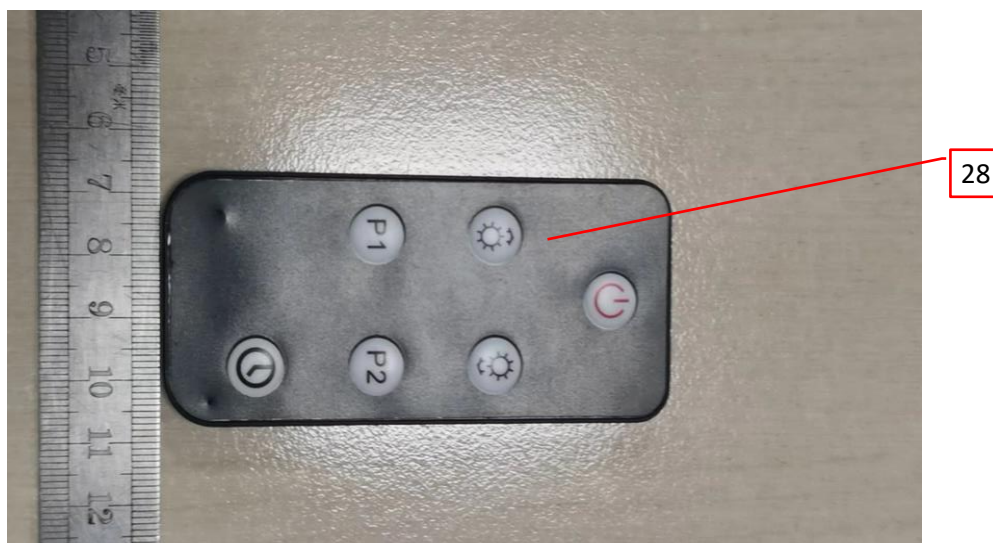


Photo 36 - General view of remote controller



3.0 Product Photographs

Photo 37 - Internal view of remote controller



Photo 38 - Internal view of remote controller



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	1	Power Supply Cord	Various	S	16AWGx3C, 105°C, 1.8-2.4m length. Terminated in a molded grounding plug NEMA 5-15P. (The heater is not intended to be used outdoor or in wet/moist location when fixed with this cord. Such warning will noted on manual or carton)	cULus or cETLus
			Various	SJ	Same as above.	cULus or cETLus
			Various	SJO	Same as above.	cULus or cETLus
			Various	SJOO	Same as above.	cULus or cETLus
			Various	SO	Same as above.	cULus or cETLus
			Various	SOO	Same as above.	cULus or cETLus
			Various	SV	Same as above.	cULus or cETLus
			Various	SVO	Same as above.	cULus or cETLus
			Various	SVOO	Same as above.	cULus or cETLus
			Various	SJT	Same as above. Only used in US market.	cULus or cETLus
			Various	SJOOW	16AWGx3C, 105°C, 1.8-2.4m length. Terminated in a molded grounding plug NEMA 5-15P.	cULus or cETLus
			Various	SJOW	Same as above.	cULus or cETLus
			Various	SOOW	Same as above.	cULus or cETLus
			Various	SOW	Same as above.	cULus or cETLus
			Various	SJTW	Same as above. Only used in US market.	cULus or cETLus
1	1A	Marking label (not shown)	Various	Various	Min 60°C, attached on side of front housing	cURus
1	2	LED cover	LG CHEM LTD	LUPOY GN-2010F(f1)	PC, V-0, HWI=1, RTI(120,90,105). thickness: 1.5mm. Secured on the slot by adhesive.	cURus
1	3	Metal housing	Various	Various	Painted sheet metal, 1.8mm thickness. Secured together by screws.	NR
3	4	Connector box	E I DUPONT DE NEMOURS & CO INC	FR50(+)(f1)	PA66, 5VA, HWI=3, HAI=0, RTI(130,115,115), Minimum 1.5mm thick. Secured on the metal enclosure by screws.	cURus
4	5	Glass	Various	Various	Temper glass. Thickness: 4mm. Secured in the slot.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
6	6	Power Switch	Yueqing Weixin Electronic Co., Ltd.	KCD1	125V, 16A, T125, 1E4 cycles. Secured on the enclosure by snap in. (for TS, TG series, PHF-1500, PHF-1500R, T12-HR15B, T12-GR15B)	cETLus
			ZHEJIANG BEIER JIA ELECTRONIC CO LTD	PS8C	125V, 20A, T125, 6K cycles.	cURus
			Guangzhou Taiheng Electric Appliance Co., Ltd	TH1	125V, 15A, T125, 6K cycles.	cETLus
			NINGBO MASTER SOKEN ELECTRICAL CO LTD	RK2-13D	125V/250V, 16A, T100, 6K cycles.	cURus
			Legion Electronic Co.,Ltd.	SS11	125V/250V;16A; T125,6K cycles	cURus
			Yueqing Niufulai Electronics Co Ltd	KCD1 B6-06	125V;15A; T125, 1E4 cycles	cURus
8	7	Wire connector	HEAVY POWER CO LTD	CE2	Nylon 66, 300V~, 150°C.	cURus
				CE5	Nylon 66, 300V~, 150°C.	cURus
8	8	Internal Wires	Various	10362	600V, 250°C, 16-18AWG, VW-1.	cULus or cETLus
			Various	3135	600V, 200°C, 16-18AWG, VW-1.	cULus or cETLus
			Various	3122	300V, 200°C, VW-1, 16-18AWG for heating element circuit. (not go through the reflector) 20-22AWG for other connection. 24AWG for indicator.	cULus or cETLus
11	9	Fuse	Various	Various	250V, 2A. Soldered on PCB.	cURus
11	10	X2 capacitor	Various	Various	275V, 0.1uF, min T100. Soldered on the PWB board. (PHF-1500R, TS12*,TG12*, TS15*, TG15*, *=R, RSD)	cURus
11	11	Varistor	Various	Various	470V. Soldered on PCB.	cURus
11	12	X2 capacitor	Various	Various	275V, 1.2uF, min T100. Soldered on the PWB board. (TS12*,TG12*, TS15*, TG15*, *=R, RSD)	cURus
12	13	Fuse	Various	Various	250V, 3.15A. Soldered on PCB	cURus
12	14	Non isolating transformer	CIXI XINLUN ELECTRICAL APPLIANCE CO.,LTD.	HEL-B88/EE16-12012-AH	INPUT:90V~240V OUT:12V. Winding UEW/130 (CHANGZHOU DAYANG WIRE & CABLE CO LTD), bobbin: T375HF (CHANG CHUN PLASTICS CO LTD). Soldered on PCB .	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
12	15	PCB	Various	Various	94V-0, 130 °C, Min. thickness 1.5mm. Secured on plastic enclosure by screws.	cURus
12	15A	Silicone insulation	ZHAOQING HAOMING ORGANIC SILICON MATERIAL CO LTD	HM-9180	Room Temperature Vulcanizing. V-0, RTI150. Smeared around the PCB to insulate the layout and component pin to the metal housing.	cURus
13	16	Side cover	LG CHEM LTD	LUPOY EF-1006F(m)(f1)	PC, 5VA,HWI=2, HAI=0, RTI(125,120,125), thickness:2.5mm. Secured in the switch box by position fit,(f1)- Suitable for outdoor use with respect to exposure to Ultraviolet light,Water Exposure and immersion. (PHF-1500, PHF-1500R, PHG-1500R, T13 series)	cURus
15	17	Adjustable thermostat	ZHEJIANG ZHONGYAN CO LTD	WK-R11	120VAC 16A, 5E4. Secured on the cover by screws. (for PHF-1500)	cURus
			JIUJIANG HENGTONG AUTOCONTROL DEVICE CO LTD	WY series	120VAC 16A, 5E4.	cURus
			FOSHAN NANHAI TENGYA ELECTRIC AILIANCE CO LTD	WGF series	120VAC 16A, 5E4.	cURus
18	18	Heating element	Cixi Xinlun Electrical Appliance Co.,Ltd	Various	120V, 60Hz, 1200W or 1500W. (refer to rating in section 2.0 for corresponding with model number) Secured on the end by the metal sheets. Carbon fiber heating tube or quartz heating tube for PHF-1500, PHF-1500R. Halogen heating tube or Carbon fiber heating tube for PHG-1500R. Halogen heating tube for TS, TG series.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
19	19	Relay	ANHUI MINGGUANG LIFE ELECTRIC CO LTD	BT90-SS-112D	250V, 20A, T85, 100K. Soldered on the PCB board. (for PHF-1500R)	cURus
			NINGBO SONGLE RELAY CO LTD	SLA-12VDC-SL-C	240V, 20A, T85, 100K	cURus
			XIAMEN HONGFA ELECTROACOUSTIC CO LTD	HF105F-1	277V, 30A, T85, 100K	cURus
			Dongguan Yongneng Electronics Co.,Ltd	YX305-S-105DM	125V 20A T85 100K	cURus
19B	19A	Connector	Various	Various	min 300V, 20A, Soldered on PB.	cURus
21	20	Rocker switch	Guangzhou Taiheng Electric Appliances Co., Ltd.	TH2	125V, 15A, T125, 6K cycles. (for PHG-1500R)	cETLus
			Cixi Xunma Electronic Technology Co.,Ltd.	XM1-15	125V 16A T125, 6K	cETLus
			NINGBO MASTER SOKEN ELECTRICAL CO LTD	RK1-15	AC125V 16A T85, 6K	cURus
			Yueqing Niufulai Electronics Co Ltd	KCD3	AC125V 16A T125, 1E4	cURus
23	21	X2 capacitor	Various	Various	275V, 0.47μF, min T100. Soldered on the PWB board. (for PHG-1500R)	cURus
25	22	Heating element	Cixi Xinlun Electrical Appliance Co.,Ltd	Various	120V, 1500W. Secured on the end by the metal sheets. Carbon fiber heating tube for T12-HR15B, T12-GR15B(L:426mm)	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
28	23	Bushing	Various	Various	PVC, 600V, 200°C, all color. Protect internal wiring from sharp edge and high temperature.	cURus
30	24	X2 capacitor	Various	Various	250V or 275V, 1.5μF, 2.0μF, min T100. Soldered on the PCB. (for T12-HR15B, T12-GR15B)	cURus
31	25	Heating element	Cixi Xinlun Electrical Appliance Co.,Ltd	Various	120V, 1500W. Secured on the end by the metal sheets. Carbon fiber heating tube for T13-GR15B, T13-GR15BL (L:404mm), quartz heating tube for T13-QR15B, T13-QR15BL (L:664mm)	NR
32	26	Switch	Cixi Xunma Electronic Technology Co.,Ltd.	XM1-15	125V, 16A, T125, 10K cycles. Secured on plastic enclosure by snap in. (T13 series)	cETLus
			NINGBO MASTER SOKEN ELECTRICAL CO LTD	RK1-15	AC125V, 16A, T85/55, 6K cycles. Others same as above.	cURus
			Guangzhou Taiheng Electric Appliance Co.,Ltd	TH3	15A, 125VAC, T125, 1E4 cycles. Others same as above.	cETLus
			Yueqing City Weixin Electronics Co.,Ltd	KCD3	125/250VAC, 20A, 16(4) A, 1E4, T125/55. Others same as above.	cETLus
33	27	X2 capacitor	Various	Various	250V or 275V, 2.0uF, min T100. Soldered on the PCB. (for T13 series)	cURus
35	28	Remote controller	Cixi Xinlun Electrical Appliance Co., Ltd	heater 01 series	ABS enclosure, dimension: 86×40×7.3mm; back cover thickness 2mm. Front sticker PET, thickness 0.24mm. Button cell CR2025, 3VDC, UL recognized. Warning label stucked on the back, UL recognized. Button position and marking may be vary in the series.	NR

NOTES:

- 1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.
- 2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.
- 3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing -In primary circuits, minimum spacing 6.4mm are maintained through air and 12.7mm over surfaces of insulating material between live parts and a conductive enclosure.
Minimum spacing 1.6mm are maintained through air and over surfaces of insulating material between live parts of opposite polarity and between live parts and non-current-carrying conductive parts other than the enclosure.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a metallic enclosure constructed with no openings other than those specifically described in Sections 4.
5. Grounding - All products are provided with non detachable supply cord terminated with grounding plug.
6. Polarized Connection -None
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. All wiring is minimum 24 AWG, with a minimum rating of 300V, 200°C.
8. Schematics - None.
9. Markings - The product is marked on a labeling system as described in item no. 1A of Section 4.0 or by molding into polymeric enclosure as follows:
applicant's name or brand name
model number
date of manufacture
electrical ratings
10. Cautionary Markings - The following are required: refer to Illustration No. 3,3a,4,5 for details.
11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.
Refer to Illustration No(s). 1,1a for details.
12. Logo Dependent Marking - The required marking is not dependent on the specific ETL logo applied to the product as authorized by the Authorization to Mark.
13. Production Control - Different marking will be highlighted on the order of raw material procurement and instruct product line to build products according to the specific SOP. Quality check and random sampling will be conduct at the end of product line.

7.0 Illustrations

Illustration 1 - Table of version differences per model number.

PLEASE SAVE THESE INSTRUCTIONS

WARNING: READ THIS OWNER'S MANUAL CAREFULLY BEFORE USE.

IMPORTANT INSTRUCTIONS

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

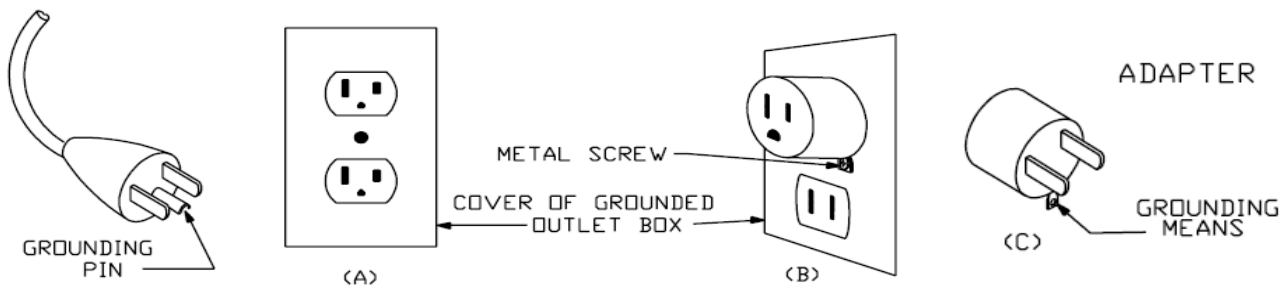
- Read all instructions before using this heater.
- This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when moving this heater. Keep combustible material, such as furniture, pillows, bedding, papers, clothes, and curtains at least 3 feet (0.9m) from the front of the heater and keep them away from the sides and rear.
- Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- Always unplug heater when not in use.
- Do not operate any heater after it malfunctions. Disconnect power at service panel and have heater inspected by a reputable electrician before reusing.
- To disconnect heater, turn controls to off, and turn off power to heater circuit at main disconnect panel (or operate internal disconnect switch if provided).
- Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the heater.
- To prevent a possible fire, do not block air intakes or exhaust in any manner.
- A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable vapors or liquids are used or stored.
- Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
- Warning: In order to avoid overheating do not cover the heater. It is not for drying clothes.
- Do not operate the heater if any signs of damage or malfunction manifest themselves.
- Do not attempt to repair or adjust any electrical or mechanical functions on this unit. The unit does not contain any user serviceable parts. Only a qualified electrician should perform servicing or repairs. Attempting to repair the unit yourself will void your warranty.
- Do not insert or allow foreign objects to enter any ventilation or opening on the heater, as this may result in electric shock, fire, or damage to the heater.
- To prevent a possible fire, do not block the air vents.
- Always ensure the heater is plugged into a suitable socket, one that is tested for outdoor use.
- Always unplug the unit and ensure the unit is completely cold before moving, cleaning or storing.
- Always use on a dry, suitably strong, stable, flat and level surface.
- Check exterior walls for communication and electrical cables and pipelines. Should any service lines be present in the immediate vicinity do not install your heater, find an alternative location to install this product.
- Do not remove any of the warning stickers or signs from the product.

SAVE THESE INSTRUCTIONS

7.0 Illustrations

Illustration 1a - Continued

This heater is for use on 120 volts. The cord has a plug as shown at A. An adapter as shown at C is available for connecting three-blade grounding-type plugs to two-slot receptacles. The green grounding lug extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box. The adapter should not be used if a three-slot grounded receptacle is available.



WARNING This product contains a button cell or coin battery.

WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



*Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.

*Even used batteries may cause severe injury or death.

*Call a local poison control center for treatment information.

*Replace the battery with 1 "CR2032" button cell battery and dispose of the used battery properly and in accordance with local law and ordinances.

*The nominal battery voltage of the "CR2032" button battery is 3.0V.

*Non-rechargeable batteries are not to be recharged.

*Do not force discharge, recharge, disassemble, heat above 70 °C (158 °F) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.

*Ensure the batteries are installed correctly according to polarity (+ and -).

*Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.

*Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

7.0 Illustrations

Illustration 2 - Table of version differences

Section	Item	Specific Difference	Logo Restriction
7	3	Cautionary marking for US	ETLus
7	3a	Cautionary marking for CSA	cETL, cETLus

Illustration 3 - Cautionary marking for US

Do not install less than 6 feet (or 1.8 meters) from the floor.

WARNING: RISK OF FIRE — keep combustible material such as furniture, papers, clothes, and curtains at least 3 feet (0.9 m) from the front of the heater and away from the sides and rear.



WARNING

INGESTION HAZARD: This product contains a button cell or coin battery.

Remark: This label attached on the remote control. Text size shall be determined based on Table 7A.1 of UL4200A. When using more than one color the marking must use the color as shown



Remark: The icon must be at least 7 mm in width and 9 mm in height. When using more than one color the marking must use the color as shown above. The icon shall be defined in accompanying printed materials such as instructions, manual, insert, or hangtag.

Note: either label or icon will be stucked or moulded on back of

7.0 Illustrations

Illustration 3a - Cautionary marking for CSA

CAUTION: MOUNT WITH BOTTOM OF HEATER AT LEAST 2.4 m ABOVE FLOOR OR GRADE.

ATTENTION : INSTALLER à AU MOINS 2,4 m DU PLANCHER.

WARNING: RISK OF FIRE — keep combustible material such as furniture, papers, clothes, and curtains at least 3 feet (0.9 m) from the front of the heater and away from the sides and rear.

AVERTISSEMENT : RISQUE D'INCENDIE — Gardez les matériaux combustibles tels que les meubles, les papiers, les vêtements et les rideaux à au moins 0,9 m de l'avant de l'appareil de chauffage et à l'écart des côtés et de l'arrière.

Illustration 4 - Cord Tag Markings

WARNING - TO REDUCE THE RISK OF FIRE:

1. Do not place any objects such as furniture, papers, clothes, and curtains closer than 3 feet to the front of the heater and keep them away from the sides and rear when the heater is plugged in.
 2. Always unplug the heater if it is not being used.
 3. Avoid the use of an extension cord because the extension cord may overheat and cause a risk of fire.
- DO NOT REMOVE THIS TAG!

AVERTISSEMENT - POUR RÉDUIRE LES RISQUES D'INCENDIE

- 1) Ne placez pas d'objets tels que meubles, papiers, vêtements et rideaux à moins de 3 pieds de l'avant de l'appareil de chauffage et tenez-les à l'écart des côtés et de l'arrière lorsque l'appareil est branché.
- 2) Débranchez toujours le radiateur s'il n'est pas utilisé.
- 3) Évitez d'utiliser une rallonge, car elle risque de surchauffer et de provoquer un incendie.

NE PAS RETIRER LE PRÉSENT TAG!

Remark: Permanently attached to the power-supply cord, no more than 6 inches (152mm) from the attachment plug, The statements "WARNING - TO REDUCE THE RISK OF FIRE" and "DO NOT REMOVE THIS TAG!" shall be in letters at least 3/16 inch (4.8mm) in height. The remaining text shall be in letters of at least 1/16 inch (1.6mm) in height.

French warning should be available when the products bear logo of cETL or cETLus.

7.0 Illustrations

Illustration 5 - Warning marking attached on the side of Cartons (representative)

Voltage: 120V AC 60Hz Wattage: 1500W

1) Always plug heaters directly into a wall outlet/receptacle.

Toujours brancher le réchauffeur directement dans une prise murale / réceptacle.

2) This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when moving this heater. Keep combustible materials, such as furniture, pillows, bedding papers, clothes, and curtains at least 3 feet (0.9m) from the front of the heater and keep them away from the sides and rear.

Ce réchauffeur est chaud au moment d'utilisation. Pour éviter des brûlures, ne laissez pas la peau nue toucher les surfaces chaudes. S'il est nécessaire, utiliser les poignées pour déplacer le réchauffeur.

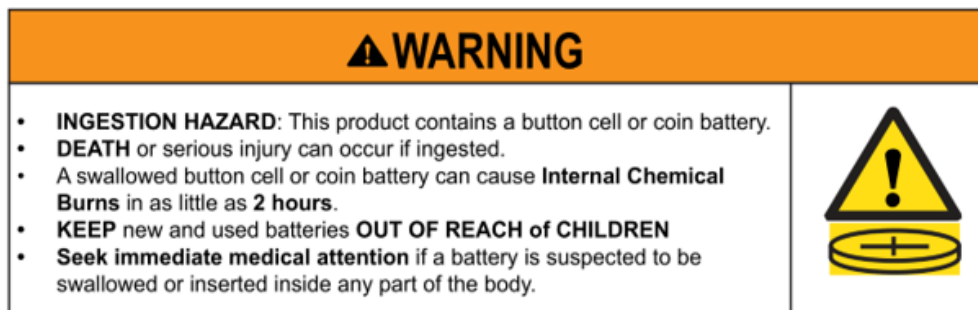
Gardez les matériaux combustibles, tels que des meubles, les oreillers, les papiers de literie, les vêtements, et les rideaux au moins 3 pieds (0.9m) de l'avant du réchauffeur et loin des côtés et de l'arrière de réchauffeur.

3) The heater is not to be used in wet or moist locations.

Ce réchauffeur ne peut pas être utilisé dans les endroits humides ou moites.

Note: Wattage should vary according to different model number.

French warning should be available when the products bear logo of cETL or cETLus.



Remark: 1. Text size shall be determined based on Table 7A.1 of UL4200A. When using more than one color the marking must use the color as shown above.

2. The packaging, or if there is no packaging, the accompanying hang tag or sticker label, shall include the following text: Battery type (CR2025) and Nominal voltage.

8.0 Test Summary					
Evaluation Period	20-Jun-2019 to 30-Aug-2019			Project No.	190600097HZH
Sample Rec. Date	4-Jun-2019 18-Jul-2019	Condition	Prototype	Sample ID.	1190718-02-001-004 1190604-09-001-007
Test Location	16 No. 1 Ave., Xiasha Economic Development District, Hangzhou 310018, China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
Test Description	UL 2021:2015 Ed.4+R:14Dec2016		CSA C22.2#46:2013 Ed.9	UL 746C:2018 Ed.7	
Power Input Test	34		7.2		
Leakage Current Test	35		7.12		
Normal Temperature Tests	36		7.4		
Continuous Operation Test	38		-		
Abnormal Operation Tests	41		7.6		
Dielectric Voltage-Withstand Test	46		7.5		
Rain Test	48		-		
Test for Permanence of Cord Tag	52		-		
Protection Against Personal Injury Test	53		-		
Strength of Adjustable Stop Test	54		-		
Strain Relief Test	13.3		7.8		
Extreme Operating Voltage (Maximum) Test			7.7		
Physical Abuse Tests	-		7.11		
Resistance to Impact				22	
Mold Stress Relief Distortion				29	
Strain Relief Test after Mold Stress-Relief Distortion				31	
Evaluation Period	11-Nov-2020			Project No.	200800611HZH
Sample Rec. Date	5-Nov-2020	Condition	Prototype	Sample ID.	1201105-05-001
Test Location	Intertek Testing Services Zhejiang Ltd., Hangzhou Branch 16 No. 1 Ave., Xiasha Economic Development District, Hangzhou 310018, China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
Test Description	UL 2021:2015 Ed.4+R:14Dec2016				
Protection Against Personal Injury Test	53				

8.0 Test Summary			
Evaluation Period	4-Apr-2023 to 20-Apr-2023		Project No. 230400196HZH
Sample Rec. Date	31-Mar-2023	Condition Prototype	Sample ID. 1230331-22-010,011,012
Test Location	Intertek Testing Services Zhejiang Ltd., Hangzhou Branch 4th Floor, Building 4#, No. 22, 22nd Street, Qiantang District Hangzhou, China 310018		
Test Procedure	Testing Lab		
The product covered within this report were evaluated at Intertek Testing Services Hangzhou using the revised standard for Fixed And Location-Dedicated Electric Room Heaters [UL 2021:2015 Ed.4+R:02Feb2021] and Electric Air-Heaters (R2018) [CSA C22.2#46:2013 Ed.9], and found below tests are required.			
Test Description	UL 2021:2015 Ed.4+R:02Feb2021	CSA C22.2#46:2013 Ed.9	
Power Input Test	34	7.2	
Normal Temperature Tests	36	7.4	
Continuous Operation Test	38	-	
Abnormal Operation Tests	41	7.6	
Dielectric Voltage-Withstand Test	46	7.5	
Rain Test	48	-	
Protection Against Personal Injury Test	53	-	
Extreme Operating Voltage (Maximum) Test	-	7.7	
Evaluation Period 2-Apr-2024 to 17-Apr-2024 Project No. 240400348HZH			
Sample Rec. Date	27-Mar-2024	Condition Prototype	Sample ID. 1240327-06-001~005
Test Location	Intertek Testing Services Zhejiang Ltd., Hangzhou Branch 4th Floor, Building 4#, No. 22, 22nd Street, Qiantang District Hangzhou, China 310018		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
Test Description	UL 4200A:2015 Ed.1+R:30Aug2023		
Abuse tests - Drop test for portable devices and hand held products	6.3.2		
Abuse tests - Impact test	6.3.3		
Abuse tests - Crush test	6.3.4		
Abuse tests - Torque test	6.3.4A		
Abuse tests - Tension test	6.3.4B		
Abuse tests - Compliance test	6.3.5		
Permanence of Markings	7D		
8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Cloud Huang	Reviewed by:	Jeff Liu
Title:	Engineer	Title:	Reviewer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	Cixi Xinlun Electrical Appliance Co., Ltd
Address	Industrial Zone,Xinpu Town, Cixi City (Shui Xiang village), Zhejiang Province
Country	China
Product	Heater

MULTIPLE LISTEE 1	KONWIN INC
Address	2314 S.VINEYARD AVENUS UNIT J,ONTARIO CA,91761
Country	USA
Brand Name	air choice, KONWIN, TRUSTECH, Climate choice, ECOTRONIC, KOOLWOOM, PATIO BOSS

ASSOCIATED MANUFACTURER	Cixi Xinlun Electrial Appliance Co.,Ltd
Address	Industrial Zone,Xinpu Town, Cixi City (Shui Xiang village), Zhejiang Province
Country	China

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS
TS15R PHF-1500R	TS15R PHF-1500R

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:
Intertek Testing Services Shanghai Limited
ETL Component Evaluation Center
Building No. 86, 1198 Qinzhou Road (North)
Shanghai 200233, China
Attn: Ms. Emiliana Zhou

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test
Grounding Continuity Test

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:

- 1 - a voltmeter in the primary circuit;
- 2 - a selector switch marked to indicate the test potential; or
- 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

Product	Test Voltage	Test Time
All models in this report	1000V	60 s
	or	
	1200V	1 s

11.2 Grounding Continuity Test

Method

Each product listed below shall be subjected to a test to determine that there is continuity between accessible dead-metal parts of the product and the grounding pin or blade of the attachment plug.

If all accessible dead metal is connected, only a single test need be performed. A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate grounding continuity.

Products Requiring Grounding Continuity Test:

All models in this report

The following changes are in compliance with the declaration of Section 8.1:

ED 16.3.15 (1-Jul-2022) Mandatory