

1.0 Reference and Address			
Report Number	240425107GZS-001	Original Issued: 24-May-2024	Revised: 21-Jul-2026
Standard(s)	Movable and Wall- or Ceiling-Hung Electric Room Heaters [ANSI/UL 1278:2014 Ed.4+R:08Mar2024]		
Applicant	Lasko Products LLC	Manufacturer 1	Risheng Electrical Appliances Co. Ltd.
Address	820 Lincoln Avenue, West Chester, PA 19380	Address	Chuangye Industry Zone, Xinhe Wanjia District, Dongguan City, Guangdong Province 523000
Country	USA	Country	CHINA
Contact	Parvathi Kodandaraman	Contact	Xiao Yao Ren
Phone	(610) 692-7400	Phone	86-769-88991018
FAX	(601) 692-9325	FAX	86-769-88991018
Email	pkodandaraman@laskoproducts.com	Email	xiaoyaoren@vip.163.com
Manufacturer 2	MAY QUALITY INDUSTRIES SDN. BHD.		
Address	LOT 836, JALAN ABDUL RAHMAN, PARIT KASSIM, MUAR, JOHOR, 84150		
Country	Malaysia		
Contact	Li Chun Bing Kang Sheng Pu		
Phone	13416618860 13416886669		
FAX	NA		
Email	iso2@decomin.com.cn js9@decomin.com.cn		

2.0 Product Description	
Product	PTC Fan Heater
Brand name	Lasko
Description	The product covered by this report is PTC fan heater, rated 120 VAC, 60 Hz, intended for indoor and household use only, provided with a permanently connected flexible power supply cord terminated in a 2-wire polarized plug. NEMA Config. 1-15P.
Models	CC20150, CC20125, CC20175.
Model Similarity	CC20125 is the same as CC20150 except for enclosure and PCB. Controls are placed differently see photo 1 & 25. CC20125 louver is manually adjusted instead of controlled by motor. CC20175 is the same as CC20125 except louver is controlled by oscillation motor and different display board.
Ratings	120 VAC, 60 Hz, 1500 W.
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External view of model CC20150

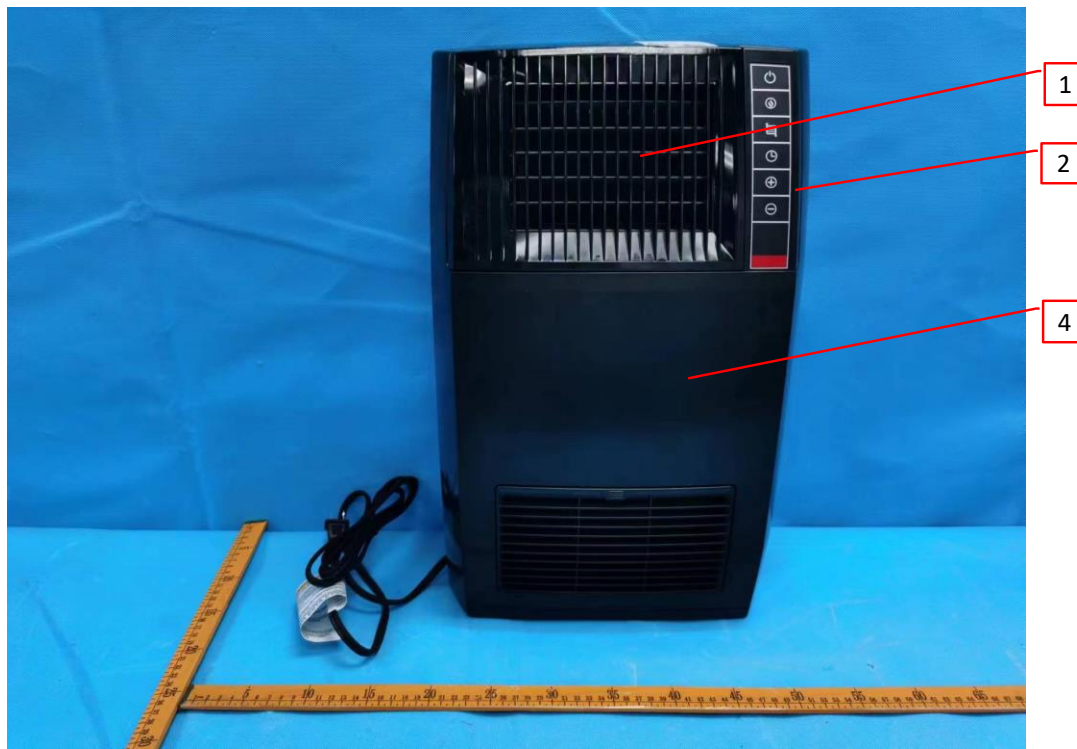


Photo 2 - External view of model CC20150

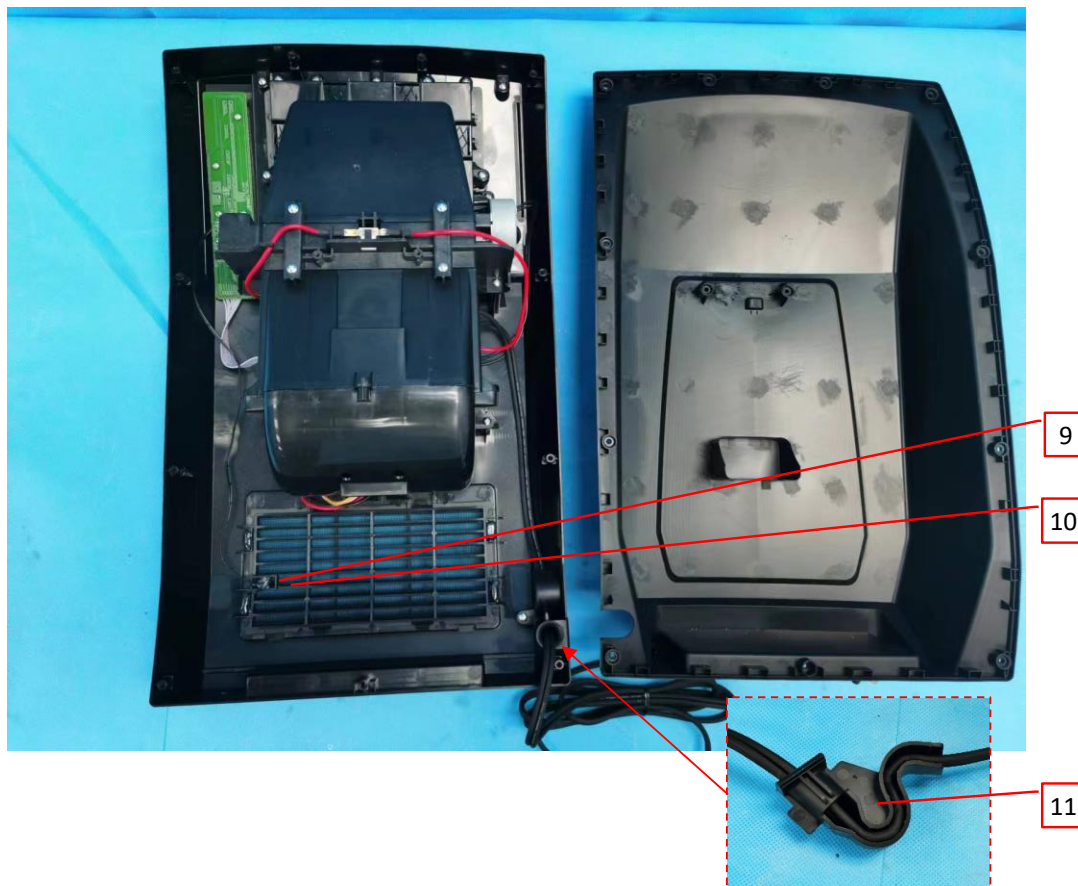


3.0 Product Photographs

Photo 3 - External view of model CC20150



Photo 4 - Internal view of model CC20150



3.0 Product Photographs

Photo 5 - Internal view of model CC20150

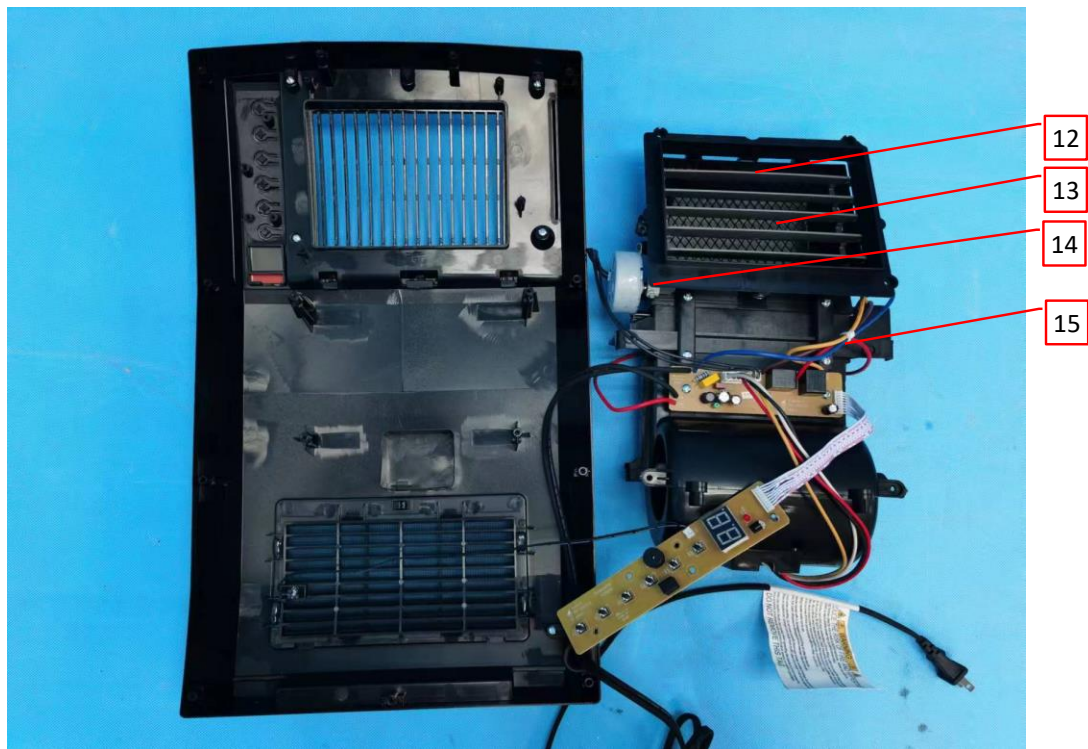
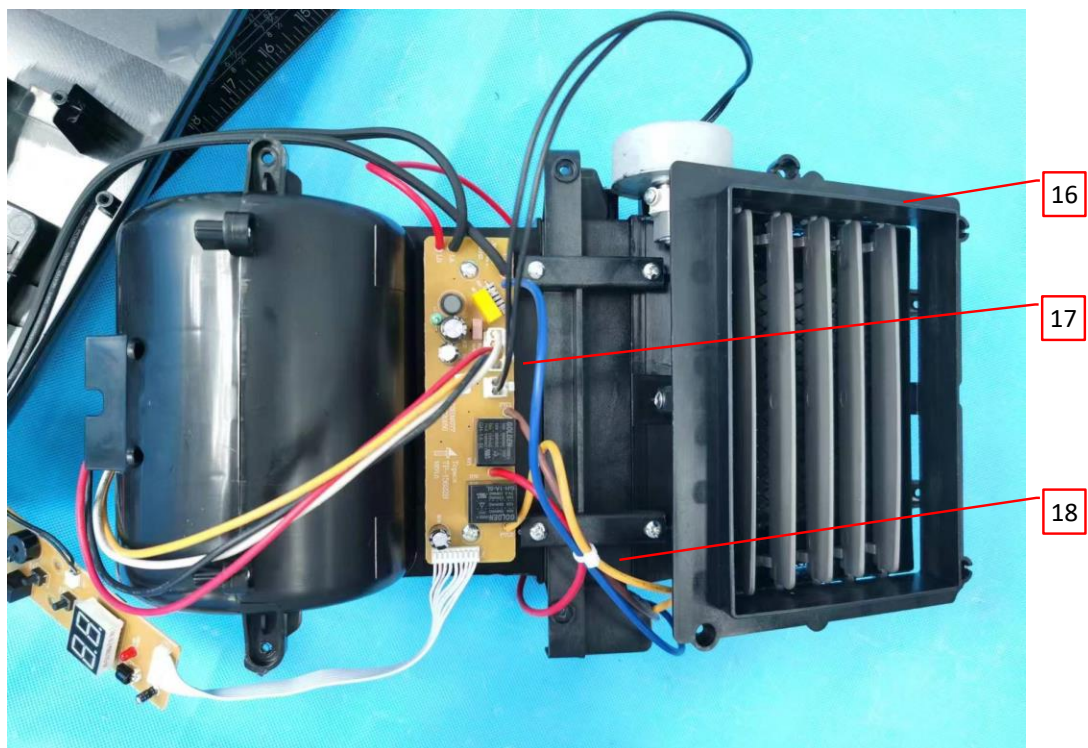


Photo 6 - Internal view of model CC20150



3.0 Product Photographs

Photo 7 - View of power board for model CC20150

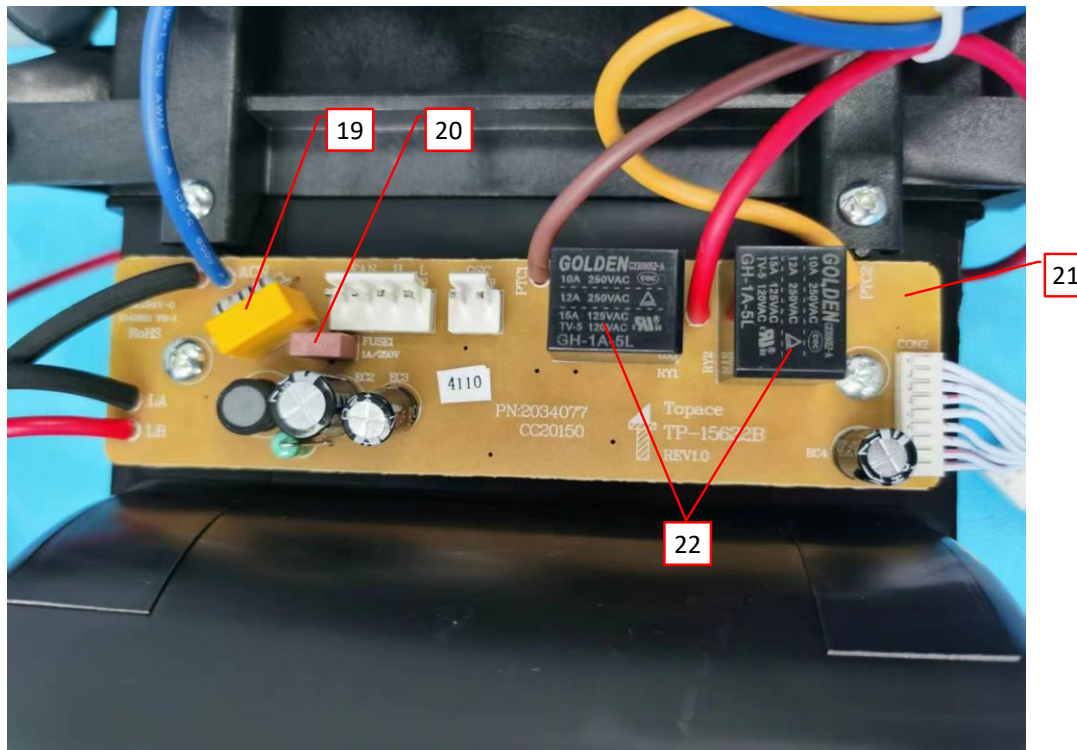
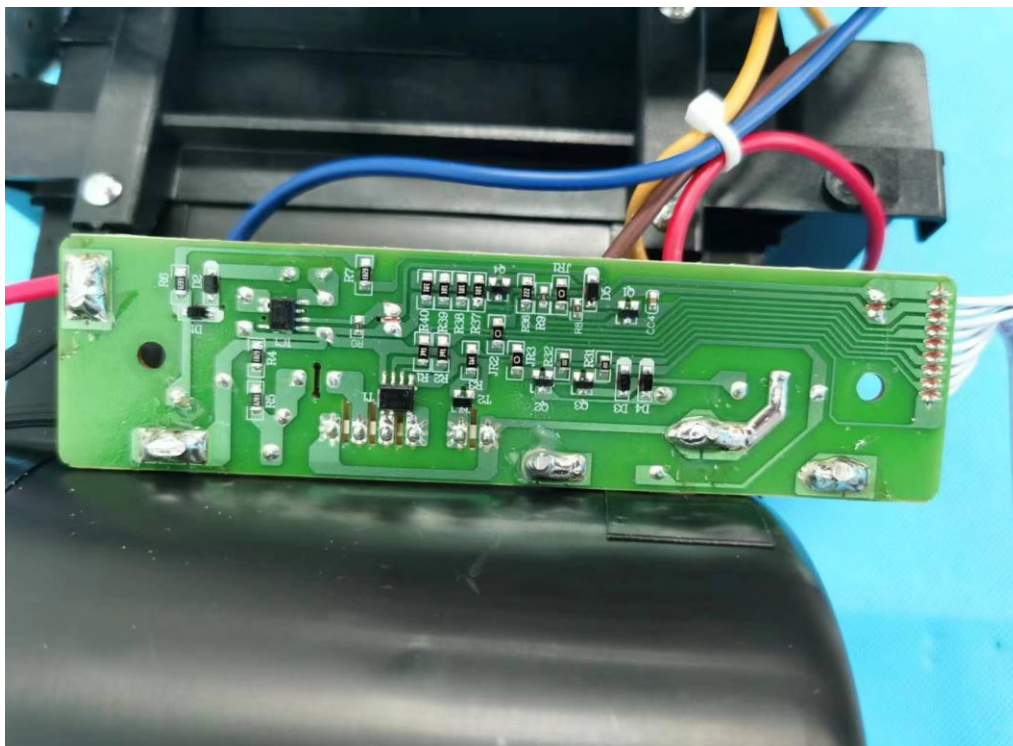


Photo 8 - View of power board for model CC20150



3.0 Product Photographs

Photo 9 - Internal view of model CC20150

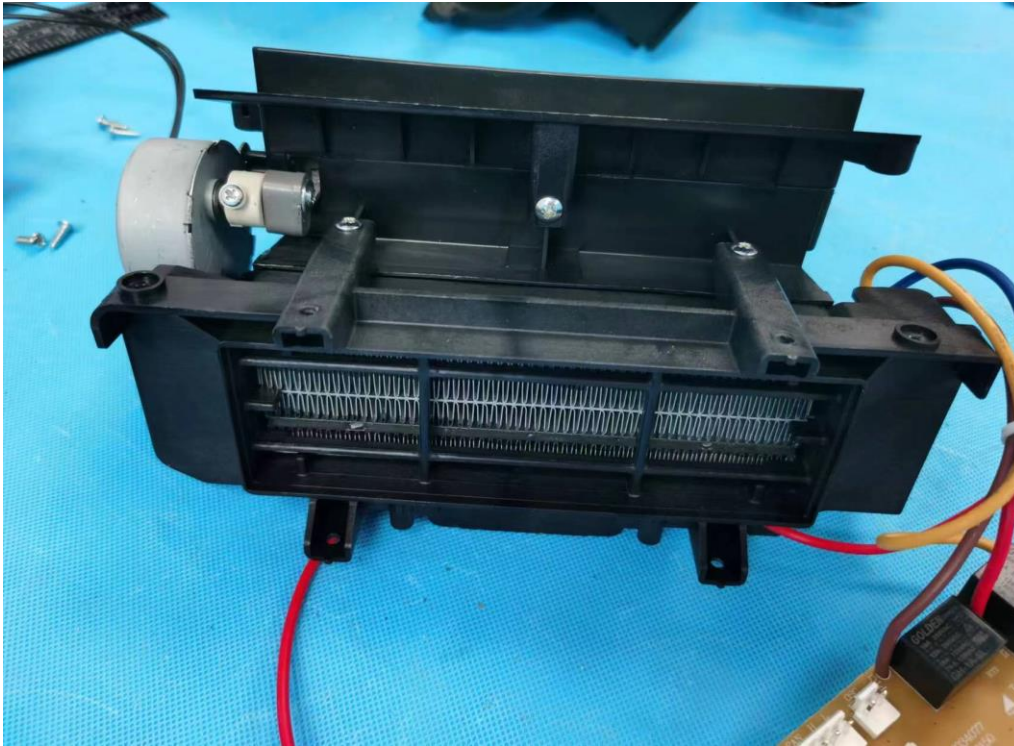
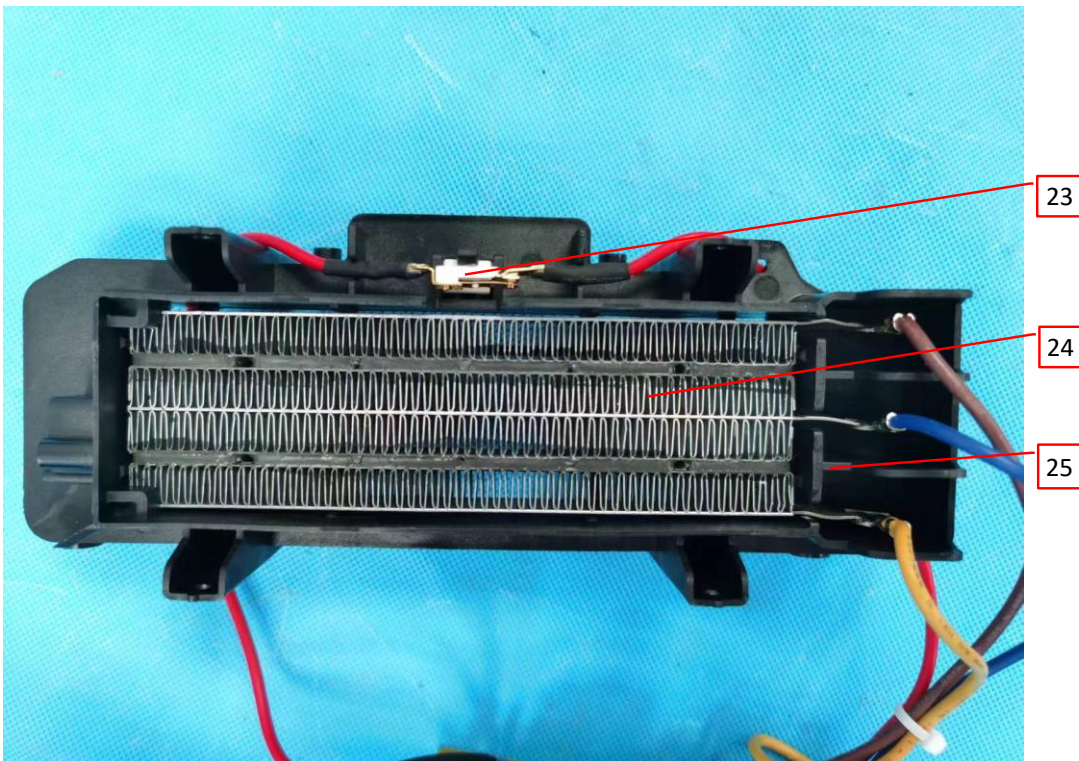


Photo 10 -Internal view of model CC20150



3.0 Product Photographs

Photo 11 - Internal view of model CC20150

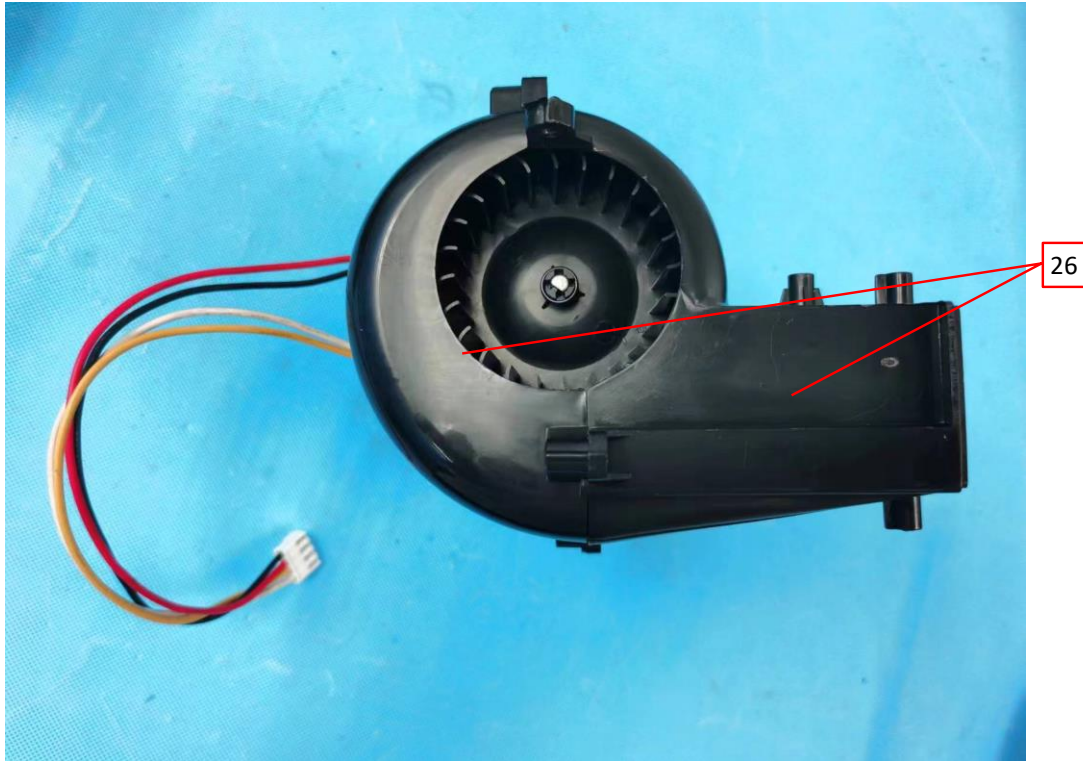
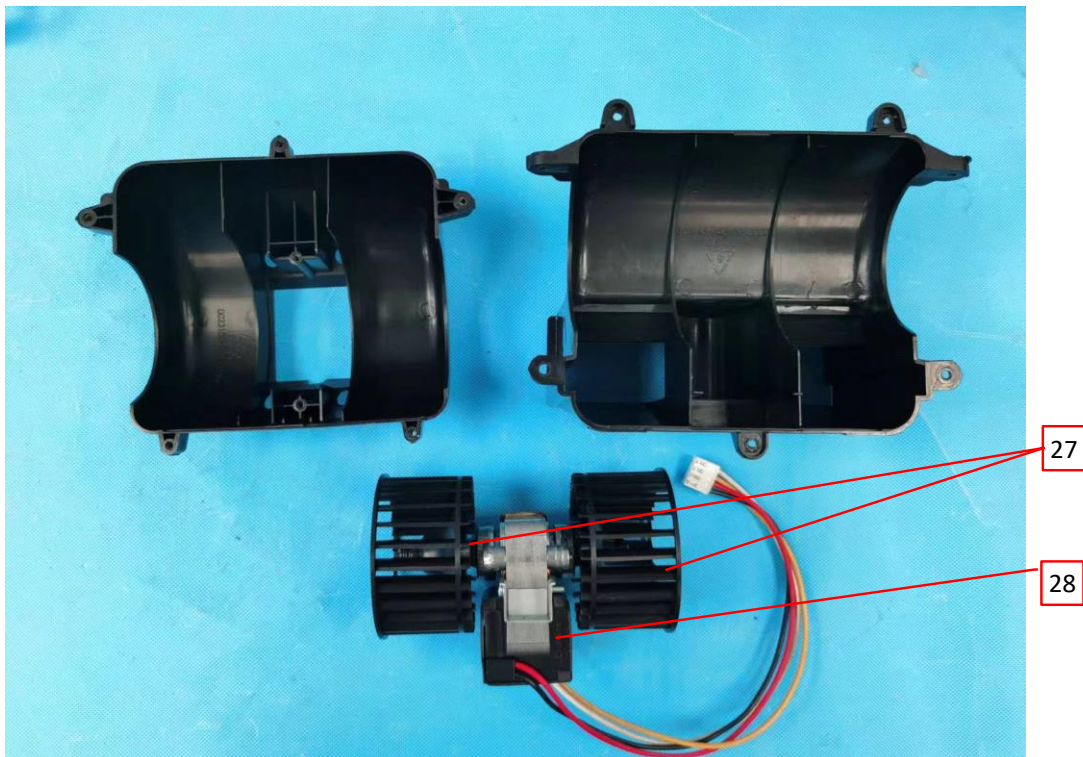


Photo 12 - Internal view of model CC20150



3.0 Product Photographs

Photo 13 - View of fan motor, model 2033286

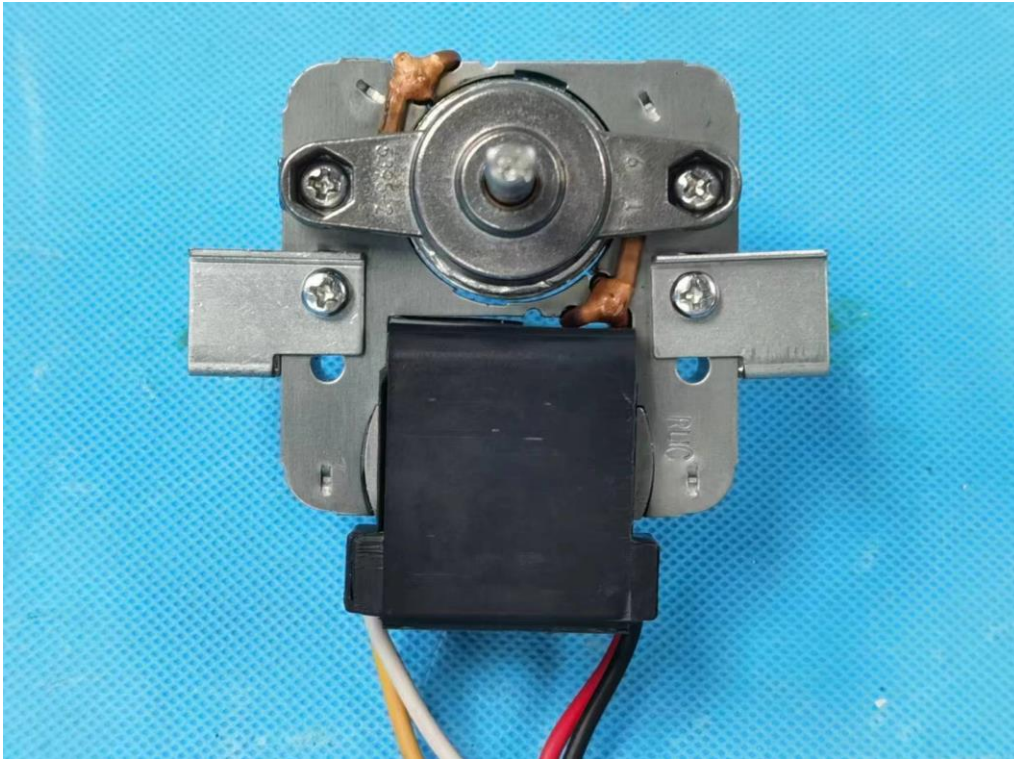
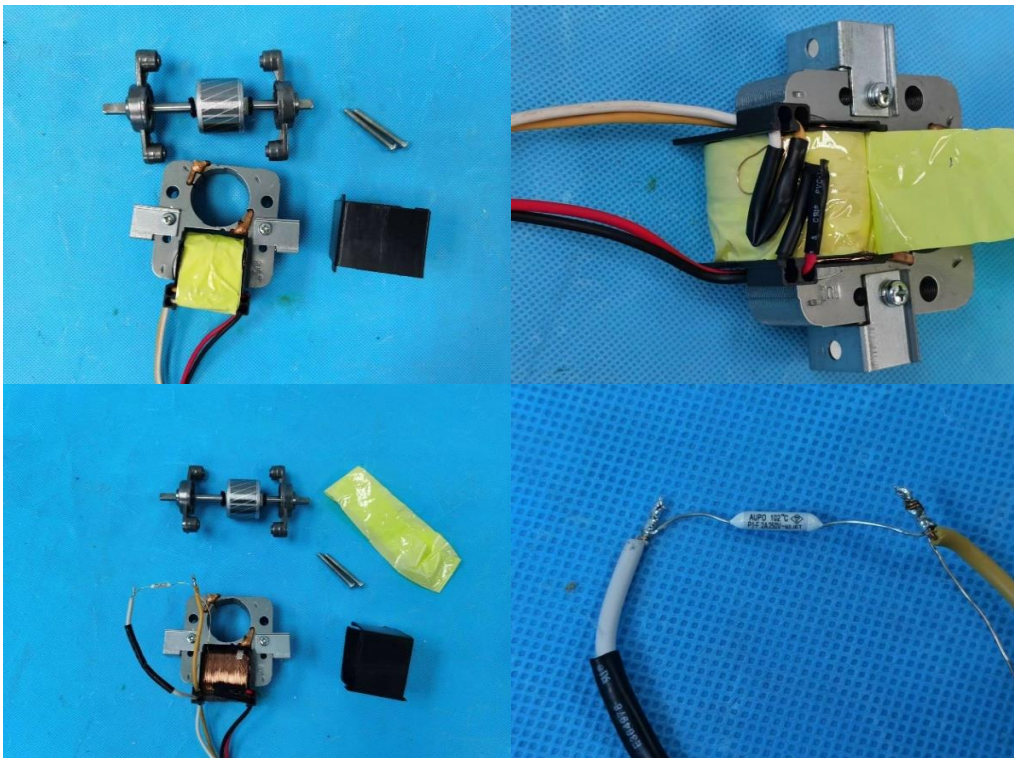


Photo 14 - View of fan motor, model 2033286



3.0 Product Photographs

Photo 15 - View of control board for model CC20150

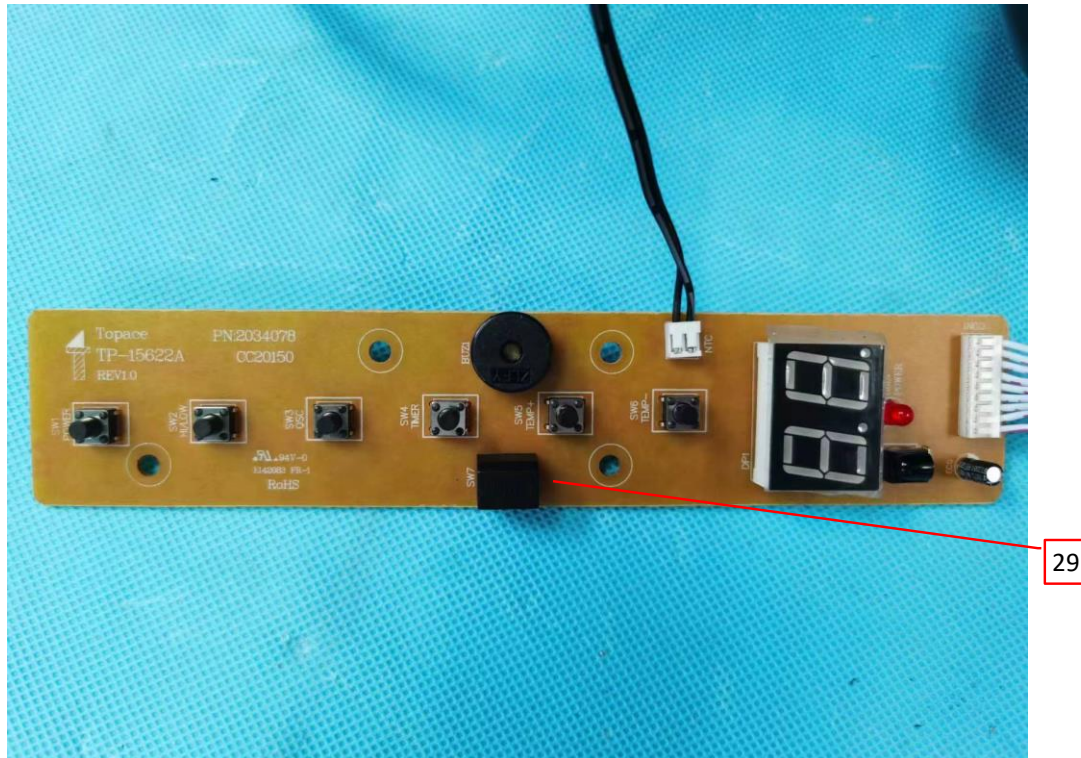
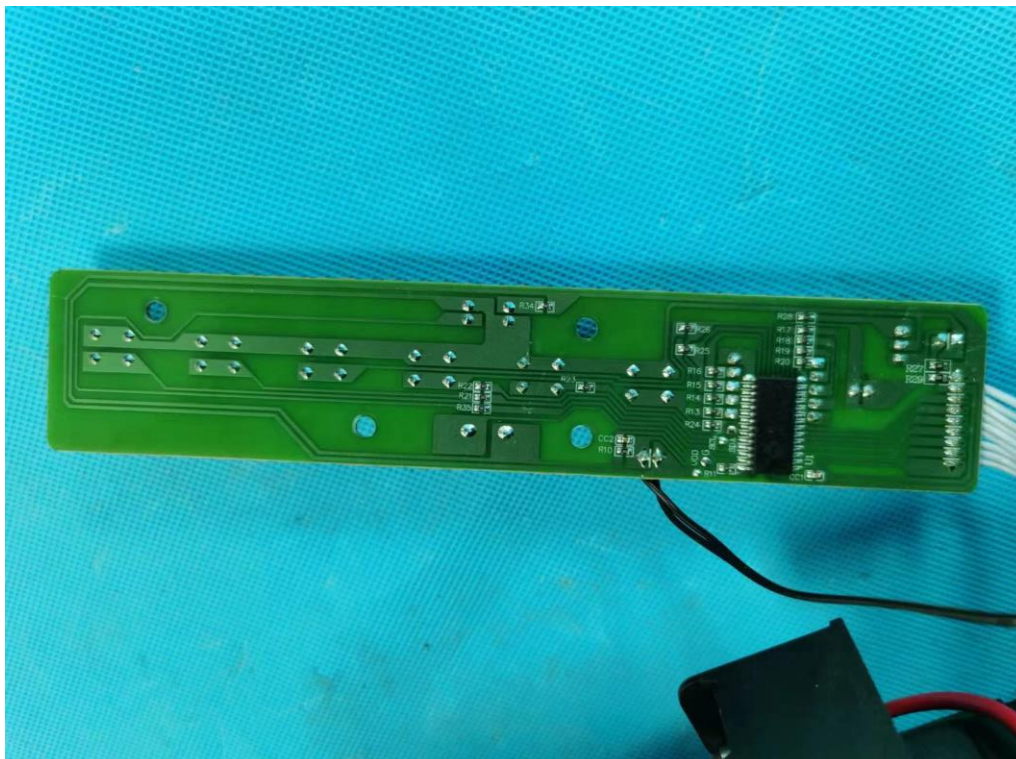


Photo 16 - View of control board for model CC20150

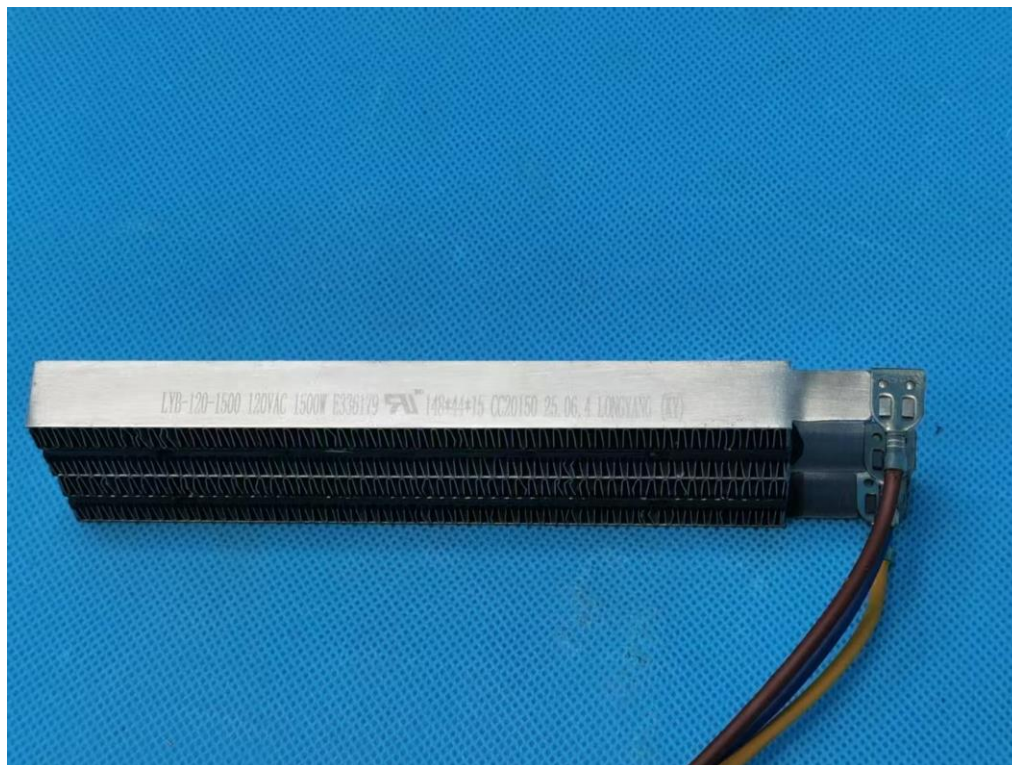


3.0 Product Photographs

Photo 17 - View of remote control for model CC20150



Photo 18 - View of PTC heating element

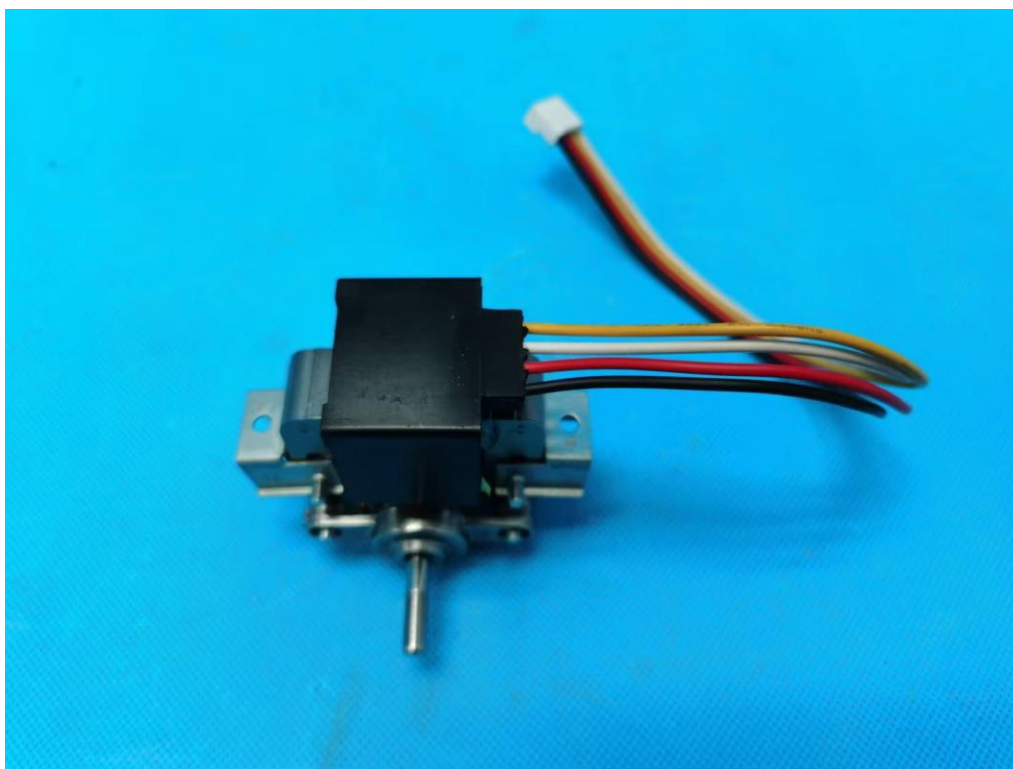


3.0 Product Photographs

Photo 19 - Optional view of PTC heating element (printing content are different)



Photo 20 - Optional construction of motor 2033286 (the leads are all on one side)



3.0 Product Photographs

Photo 21 - Optional power board for model CC20150

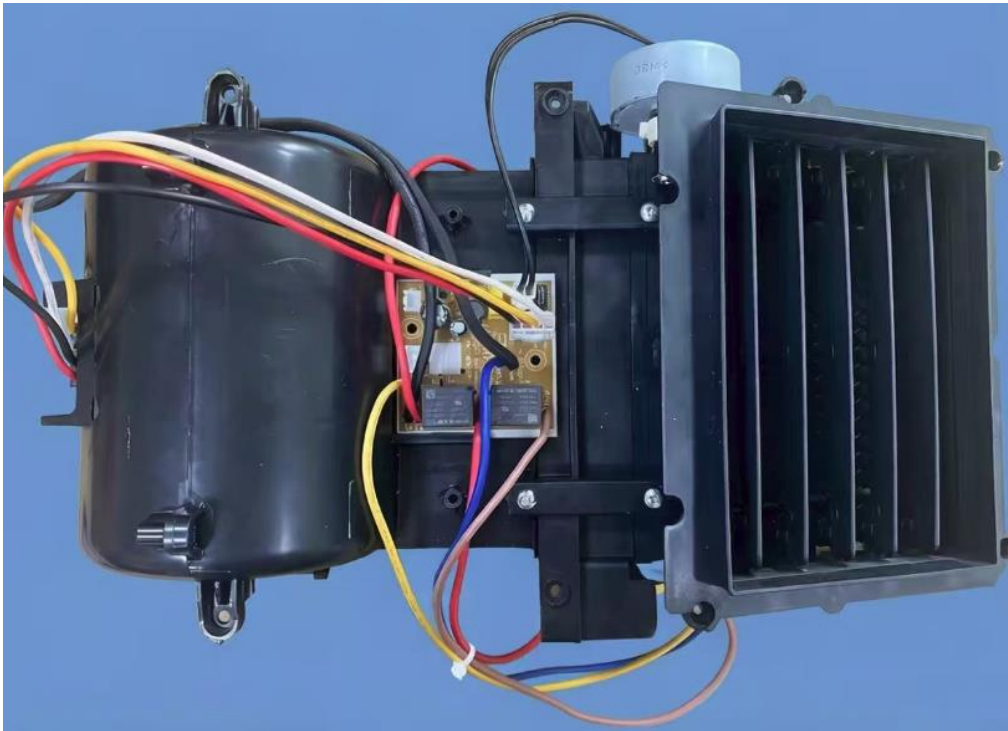


Photo 22 - Optional power board for model CC20150

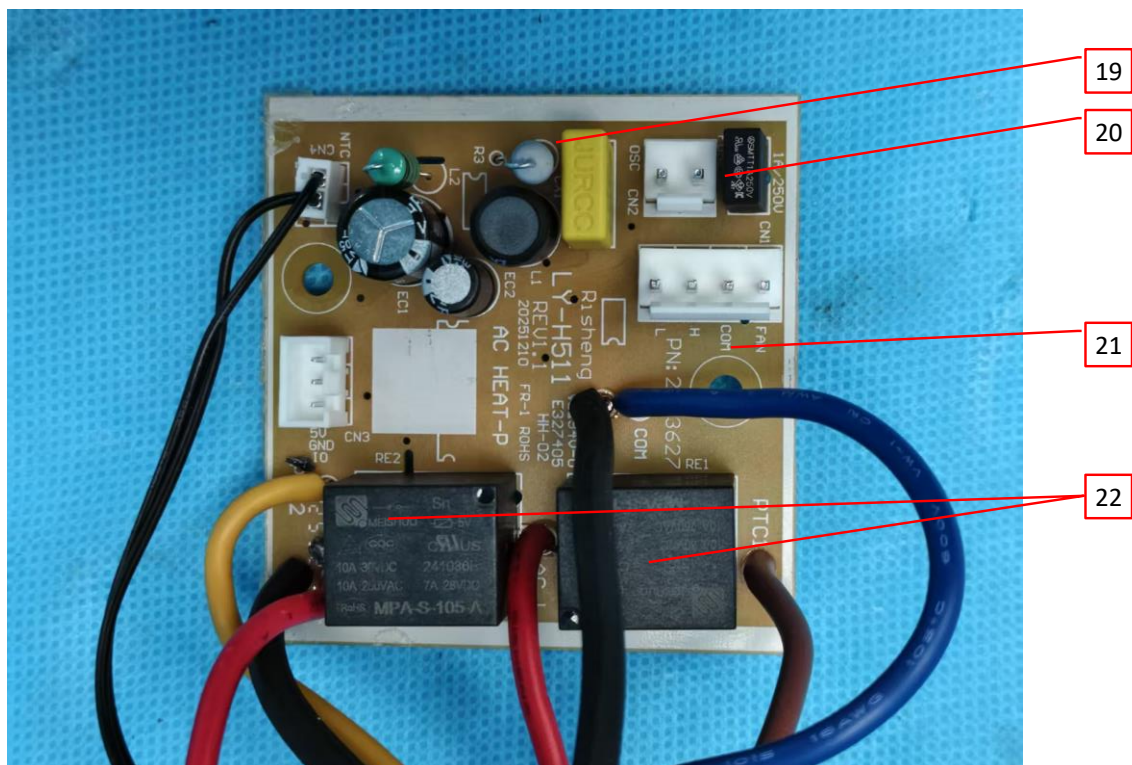


Photo 23 - Optional power board for model CC20150

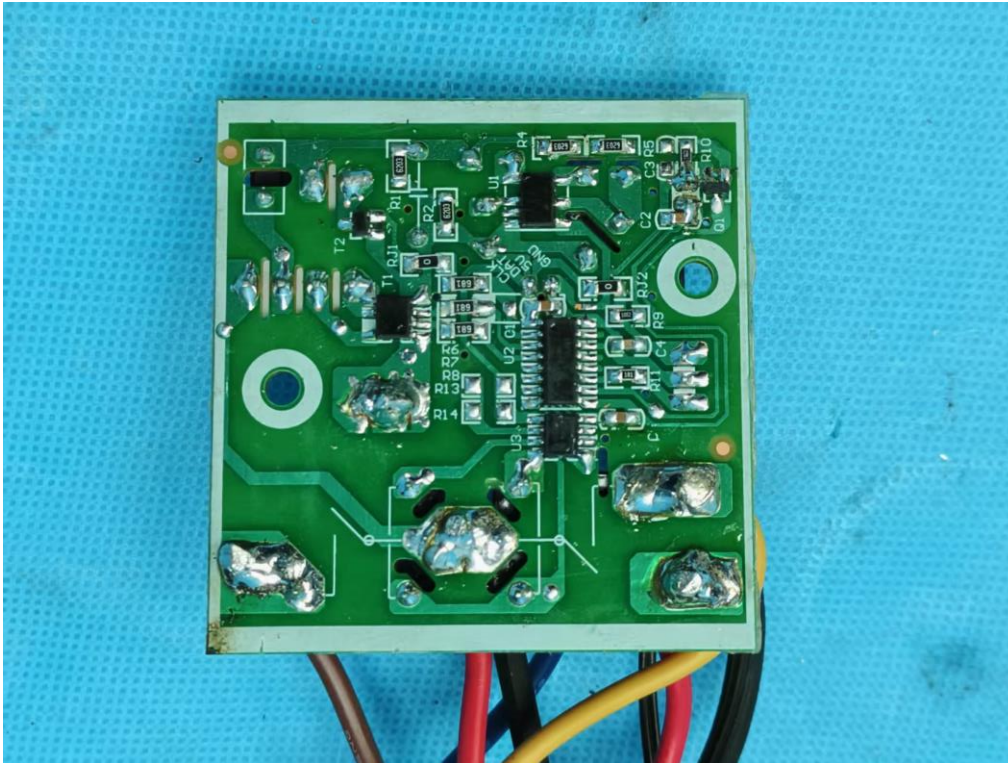
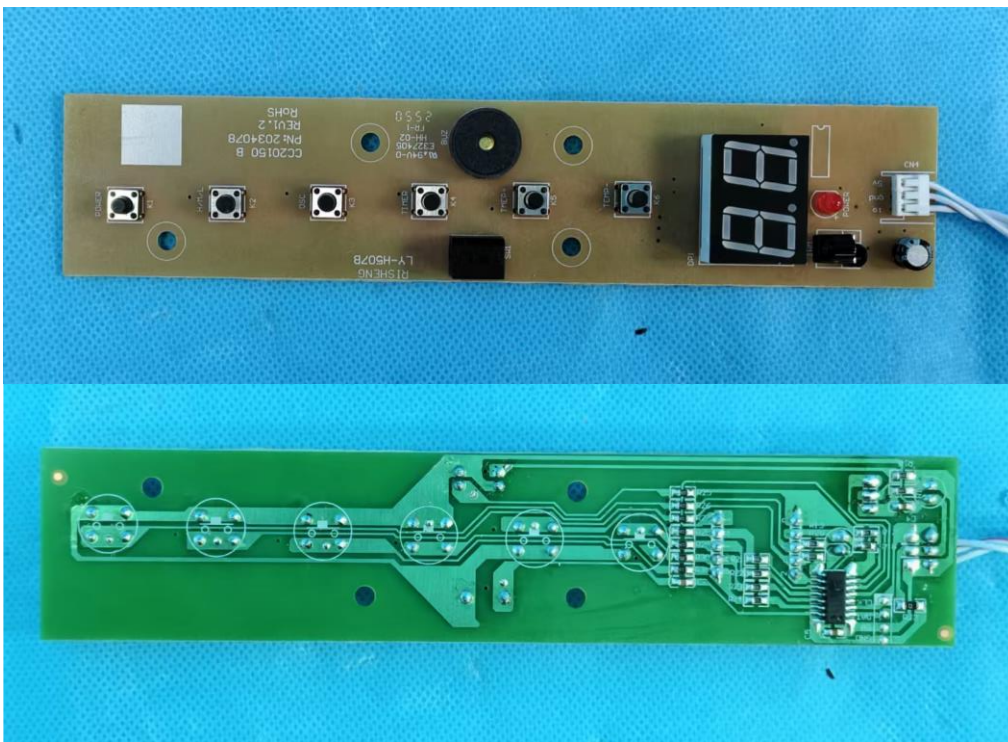


Photo 24 - Optional control board for model CC20150



3.0 Product Photographs

Photo 25 - External View of Model CC20125 (Front)



3.0 Product Photographs

Photo 26 - External View of Model CC20125 (Rear)



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Photo 27 - Risheng Power PCB for model CC20125,CC20175

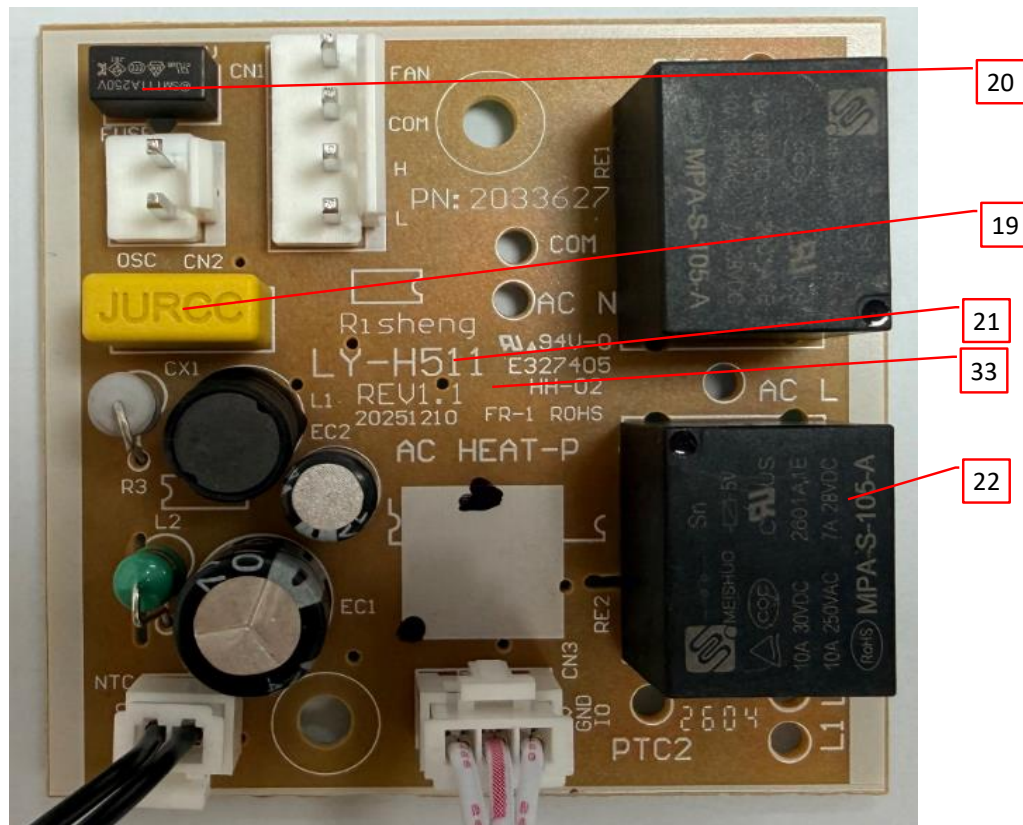


Photo 28 - Risheng Display PCB for model CC20125



Photo 29 - Topapex Power PCB for model CC20125 and CC20175

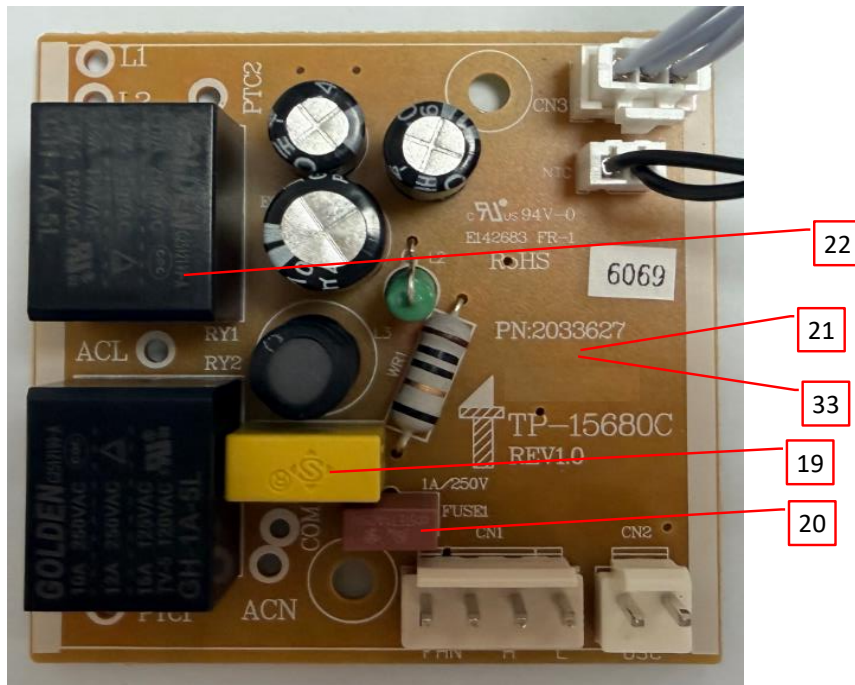


Photo 30 - Topapex Display PCB for model CC20125



3.0 Product Photographs

Photo 31 - Model CC20175



3.0 Product Photographs

Photo 32 - Display PCB for Risheng Electrical Appliances Co. Ltd., model CC20175

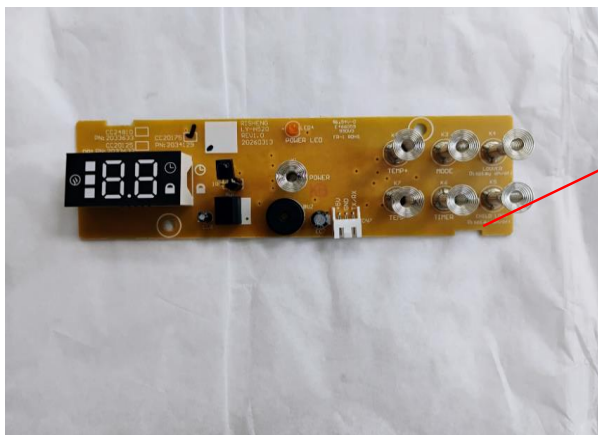


Photo 33 - Display PCB for Shenzhen Topapex Technology Co Ltd., model CC20175



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	Air outlet Grill	LG CHEM LTD	LUPOY GN1006F	PC, all color, min 2.5mm thick, rated V-0, 110°C. Measured opening size 111.8 mm x 7.8 mm. Secured to Front Enclosure by screws.	UR
			LG Chem Ltd.	GN-1006FM	PC, min 2.5mm thick,V-0 (All), rated 110°C	
			Silver Age Engineering Plastics (Dongguan) Co Ltd.	230	PC, min 0.8mm thick,V-0 (NC, RD), rated 80°C	
1	2	Control Panel	JINGMEN GORUN TECHNOLOGY CO LTD	HE11(#)	PC, BK color, min 0.2mm thick, rated VTM-0, 80°C. Secured to Front Enclosure by adhesive.	UR
			LG Chem Ltd.	GN-1006FM	PC, min 2.5mm thick,V-0 (All), rated 110°C	
			Silver Age Engineering Plastics (Dongguan) Co Ltd.	230	PC, min 0.8mm thick,V-0 (NC, RD), rated 80°C	
1	3	Adhesive for Control Panel (not shown)	Various	Various	Laminating adhesives, min. 80°C.	UR
1	4	Front enclosure	LG Chem Huizhou Petrochemical Co Ltd	AF312B	ABS, all color, min 2.1mm thick, rated 5VB, HWI=2, HAI=2, 70°C. Measured air inlet opening size 48.5 mm x 7.7 mm. Secured to Rear Enclosure by screws.	UR
			Lotte Chemical Corporation.	VH-0815(+)	ABS, min 2.0mm thick,V-0, 5VB (All), rated 85°C	
2	5	Rear enclosure	POLYROCKS CHEMICAL CO LTD	5000(f1)	PP, all color, min 2.2mm thick, rated V-0, HWI=4, HAI=0, 120°C. Secured to Front Enclosure by screws.	UR
			Silver Age Engineering Plastics (Dongguan) Co Ltd.	433+	PP, min 0.75mm thick, V-0 (All), rated 110°C	
			Polyrocks Chemical Co Ltd	5000(f1)	PP, min 0.75mm thick, V-0 (All), rated 120°C	

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
2	6	Power Supply Cord	Various	HPN-R	2×16 AWG, rated 105°C, 300 V, VW-1. Length in range of 1.8-2.4 m, terminated in a polarized type attachment plug, 1-15P.	cULus or cETLus
3	7	Filter Screen	Various	Metal	Metal. Min thickness 1.0mm. Secured to front Enclosure by hot melt adhesive.	NR
3	8	Filter Door	LG Chem Huizhou Petrochemical Co Ltd.	AF312B	ABS, all color, min. 2.1mm thick, rated V-0, 70°C.	UR
			Lotte Chemical Corporation.	VH-0815(+)	ABS, all color, min. 2.0mm thick, rated V-0, 85°C.	
			Polyrocks Chemical Co Ltd.	5000(f1)	PP, min 0.75mm thick, V-0 (All), rated 120°C	
			Silver Age Engineering Plastics (Dongguan) Co Ltd.	433+	PP, min 0.75mm thick, V-0 (All), rated 110°C	
4	9	Hot Melt Adhesive	Various	Various	Rated V-0, min. 50°C.	UR

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
4	10	NTC	Various	Various	Rated resistance 100k ohm at 25°C.	NR
4	11	Strain Relief	POLYROCKS CHEMICAL CO LTD	5000(f1)	PP, all color, rated V-0, 120°C. Secured to Rear Enclosure by screws. Refer to Illustration 5 for detail.	UR
			Silver Age Engineering Plastics (Dongguan) Co Ltd.	433+	PP, min 0.75mm thick, V-0 (All), rated 110°C	
5	12	Louver	Kingfa Sci & Tech Co Ltd.	PBT-RG301(r1)	PBT, min 1.5mm thick, V-0, rated 130°C	UR
			Nantong Orient Plastics Co Ltd.	3080GF30	PBT, min 1.6mm thick, V-0, rated 130°C	
5	13	Metal Mesh	Various	Various	Metal. Min thickness 1.0mm.	NR
5	14	Synchronous Motor	FOSHAN SHUNDE HENGXING MICRO MOTOR CO LTD	TYJ50-8A	Rated 120V~, 60Hz, 4W, 3 r/min, Class A. Supply leads type 1015, 24AWG.	UR
			Jiangmen Dongrun Machinery and Electrical Co Ltd	TY50J	Rated 120V~, 60Hz, 4W, 3 r/min, Class A. Supply leads type 1015, 24AWG.	
			Minzhuo Electric Co Ltd	50TYZ-0.2B02	Rated 120V~, 60Hz, 4W, 3 r/min, Class A. Supply leads type 1015, 24AWG.	
			FOSHAN JUNTAI ELECTRICAL APPLIANCES CO LTD	TYC50C	Rated 120V~, 60Hz, 4W, 3 r/min, Class A. Supply leads type 1015, 24AWG.	
5	15	Internal Wire	Various	1015	Rated 600V, 105°C, VW-1. Min.16AWG for heating element and TCO.	UR
			Various	2468	Rated 300V, 80°C, VW-1, min. 26AWG. For NTC and control PCB.	UR

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	16	Air Channel	Kingfa Sci & Tech Co Ltd.	PBT-RG301(r1)	PBT, min 1.5mm thick, V-0, rated 130°C	UR
			Nantong Orient Plastics Co Ltd.	3080GF30	PBT, min 1.6mm thick, V-0, rated 130°C	UR
6	17	Connector	Various	VH series	Rated min. 3A, min. 85°C. 250V	UR
				XH Series		
6	18	Cable Tie	Various	Various	Rated min. 85°C.	UR
7, 22, 27, 29	19	X2 capacitor	Various	Various	Rated 275V, 0.22µF or 0.1µF, min. 105°C, Class X2.	UR
7, 22, 27, 29	20	Fuse	SHENZHEN LANSON ELECTRONICS CO LTD	SMT	Rated 250V, 1A.	UR
			XC ELECTRONICS(S HENZHEN) CORP LTD	5TE	Rated 250V, 1A.	
			Various	Various	Rated 250V, 1A.	

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
7, 22, 27, 28, 29, 30	21	PCB	Various	Various	Rated 94V-0, 130°C, measured thickness 1.6mm, met UL 796.	UR
7, 22, 27, 29	22	Relay	Sanyou Corporation Limited	SRD-S-105DM	Rated 15A, 125VAC, 10A, 250VAC, 85°C, endurance cycles 30000. Coil voltage 5VDC.	UR
			SHENZHEN GOLDEN ELECTRICAL APPLIANCES CO LTD	GH-1A-5L	Rated 15A, 125VAC, 10A, 250VAC, 85°C, endurance 6000 cycles. Coil voltage 5VDC.	UR
			ZHEJIANG MEISHUO ELECTRIC TECHNOLOGY CO LTD	MPA-S-105-A	Rated 10A, 250VAC, 10A, 250VAC, 85°C, endurance 6000 cycles. Coil voltage 5VDC.	UR
10	23	TCO	Foshan Eagle Technology Co Ltd	AMT-P2	Protective Voltage maintained Thermal Cut-Out. 125VAC, 16A, tf 75°C, 6000 cycles.	UR
			Auone Electronic Mfg Ltd	AUT-75-P	Protective Voltage maintained Temperature Limiter. Rated 125VAC, 16A, tf=75°C, endurance 6000 cycles.	UR
10	24	PTC Heating Element	Dongguan Longyang Electronic Technology Co Ltd.	LYB-120-1500	120 V, 60 Hz, 1500 W. May be marked with "KY".	UR
			KAI YI ELECTRIC HEATING(M) SDN. BND.	LYB-120-1500		
			Dongguan City LongKey Electronic Co. Ltd.	RFB062E/1K5		
10	25	PTC Bracket	KINGFA SCI & TECH CO LTD	PBT-RG301(r1)	PBT, all color, min 1.5mm thick, rated 5VA, HWI=2, HAI=0, 130°C.	UR
			NANTONG ORIENT PLASTICS CO LTD	3080 GF30	PBT, all color, min 1.6mm thick, rated V-0, HWI=2, HAI=0, 130°C.	UR

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
11	26	Blower Housing	Polyrocks Chemical Co Ltd.	168(+)(f1)	PP, min 0.8mm thick, V-0, rated 120°C	UR
12	27	Blower Wheel	POLYROCKS CHEMICAL CO LTD	168(+)(f1)	PP, min 0.8mm thick, V-0, rated 120°C	UR
12	28	Blower Motor	Risheng Electrical Appliances Co. Ltd.	2033286	Rated 120V, 60Hz, Class A.	See 5.0
15, 28, 30	29	Tip over Switch	Various	Various	Rated 4.5-5V, 10-15mA, T85°C, endurance 30000 hours. Set non-operated during Tip over test.	NR
17	30	Remote Control	LG Chem Huizhou P	HP181	ABS, Rated HB, 75°C, 1.6mm minimum thickness, all colors. Powered by AAA batteries.	NR
			Ningbo LG Yongxing	HI-121H	ABS, min.1.5mm thick,HB, rated 80°C. Powered by AAA batteries.	NR
2	31	Cord Tag (not shown)	Various	Various	UL category PGIS2. Suitable for HPN-R, min. 18 AWG flexible cord, at least 60 °C.	UR
2	32	Marking Label (not shown)	Various	Various	UL category PGDQ2. Suitable for PP materials surface, at least 80°C. Affixed on the surface of main enclosure.	UR

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
27, 29	33	Power PCB	Risheng Electrical Appliances Co. Ltd.	2033627	120V~ 60Hz	UR
			Shenzhen Topapex Technology Co Ltd.		120V~ 60Hz	UR
28, 30	34	Display PCB	Risheng Electrical Appliances Co. Ltd.,	2033632	5V~ 60Hz	UR
			Shenzhen Topapex Technology Co Ltd.		5V~ 60Hz	UR
32, 33	35	Display PCB	Risheng Electrical Appliances Co. Ltd.,	2034129	5V~ 60Hz, Used with model CC20175 only.	NR
			Shenzhen Topapex Technology Co Ltd.		5V~ 60Hz, Used with model CC20175 only.	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

INSULATED COIL

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
12	28	Blower Motor	Risheng Electrical Appliances Co. Ltd.	2033286

Electrical Rating: Rated 120V, 60Hz. Insulation class A

Component Standard used: UL 1004-1:2012 Ed.2+R:05Nov2020;
UL 1004-3:2015 Ed.2+R:12Jan2023.

MATERIALS LIST (refer to illustration 4 for assembly drawing)

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Winding	Various	Various	ANSI Type MW 75-C, rated Class 130. UL recognized.
Bobbin	NAN YA PLASTICS (HUI ZHOU) CORP LTD	6410G5	PA66, all color, min 1.5mm thick on main part, rated V-0, HWI=0, HAI=0, 130°C. UL recognized.
Bobbin Cover	NAN YA PLASTICS (HUI ZHOU) CORP LTD	6410G5	PA66, all color, min 1.0mm thick, rated V-0, HWI=0, HAI=0, 130°C. UL recognized.
Insulating Tape	Various	Various	Rated 130°C. UL recognized.
Tubing	Various	Various	PVC tube, rated 600V, 125°C, VW-1. UL recognized.
Lead Wire	Various	1015	Rated 600V, 105°C, VW-1, min. 20AWG. UL recognized.
	Various	1569	Rated 300V, 105°C, VW-1, min. 20AWG. UL recognized.
Connector	Various	Various	Rated min. 5A, min. 85°C. UL recognized.
Thermal Protector	ZHANGZHOU AUPO ELECTRONICS CO LTD	P1-F	Thermal link, rated 250V, 2A, functioning temperature 102°C. UL recognized.

WINDING(S) RESISTANCE

Winding Designation	Wire Size (mm)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Red-Yellow	0.35	Magnet wire	1110	120	NA	19.7
Black-Yellow	0.13	Magnet wire	200	120	NA	49.3

VERIFICATION PROCESS

Frequency: Annual	Test Site: CEC		Number of samples to test: 1
Test Name	Test Parameters		
Winding resistance	See resistance per winding above.		
Dielectric Strength	Apply voltage Between	Test Voltage	Test Time
	Primary to core	1240	60S

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, 1.6 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 1.6 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
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 non-metallic enclosure and metal air outlet grille constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - This product is not provided with a means of grounding as it's rated less than 150V.
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
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 26 AWG, with a minimum rating of 300V, 80°C.
8. Schematics - Refer to Illustration Nos. 3, 3.1, 3.2, 6, 7 for schematics requiring verification during Field Representative Inspection Audits.
9. Markings - The product is marked on a labeling system as described in item no. 32 of Section 4.0 as follows:
 - Applicant's name or brand name
 - Model number
 - Date of manufacture
 - Electrical ratings.
 - Factory designation
10. Cautionary Markings - Cautionary Markings shall be provided. Refer to Illustration No(s). 1, 1.3 for details.
11. Cord Tag Markings - Cord Tag Markings shall be provided. Refer to Illustration No. 1.1 for details.
12. Carton Information - Carton information shall be provided. Refer to Illustration No. 1.2 for details.

6.0 Critical Features

13. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.
The height of lettering in the instructions relating to the risk of fire, electric shock, and injury to persons shall be as follows:
- a) Upper case letters shall not be less than 1/12 inch (2.1 mm) high;
 - b) Lower case letters shall not be less than 1/16 inch (1.6 mm) high; and
 - c) The phrases IMPORTANT SAFEGUARDS and SAVE THESE INSTRUCTIONS shall be in letters not less than 3/16 inch (4.8 mm) high.
- Refer to Illustration No(s).2, 2.1, 2.2, 2.3 for details.

7.0 Illustrations

Illustration 1 - Cautionary marking

CAUTION: High temperature, keep electrical cords, drapery, and other furnishings at least 3 feet (0.9 m) from the front of the heater and away from the side and rear.

WARNING - Risk of Hyperthermia

Note:

1. The marking shall be marked on a surface that is visible from the front of the heater. The readily visible means visible from a point 5 feet (1.5 m) above the floor and between 1 and 4 feet (0.3 and 1.2 m) away from the front surface of the heater when the heater is placed on the floor. The marking shall be in letters not less than 1/8 inch (3.2 mm) in height and shall be of a permanent type and in a color that contrasts with that of the enclosure or background.

7.0 Illustrations

Illustration 1.1 - Cord Tag Marking



Note:

1. The cord tag shall be permanently affixed to the power-supply cord, shall be no more than 6 inches (152 mm) 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 (4.8 mm) in height. The remaining text shall be in letters of at least 1/16 inch (1.6 mm) in height.

7.0 Illustrations

Illustration 1.2 - Carton Information

Rated 120 Volts AC, 60Hz, 1500W.

READ AND FOLLOW ALL SAFETY INFORMATION AND INSTRUCTIONS:

Use only with standard polarized 120V AC outlet.

Heater intended for use on the table/floor. 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. Always plug heaters directly into a wall outlet/receptacle.

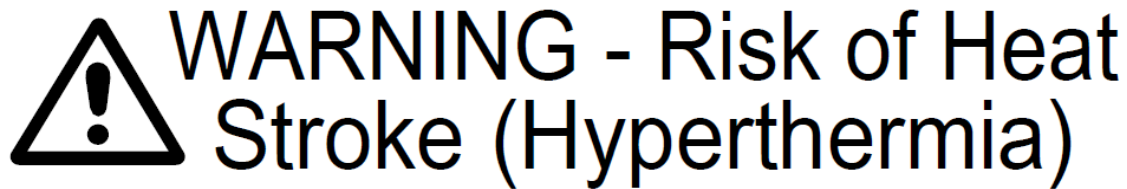
Never use with an extension cord or relocatable power tap (out/power strip). This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate heater where it may fall into a bathtub or other water container.

Note:

1. The above information shall be included on the external surface of the packaging of a heater. All information shall be grouped together and appear on one side, except the bottom, of the packaging. The upper case letters shall be not less than 1/12 inch (2.1 mm) high and the lower case letters shall not be less than 1/16 inch (1.6 mm) high.

7.0 Illustrations

Illustration 1.3 - Hyperthermia Warning



Hyperthermia can result in death in infants or others
Use caution to avoid overheating individuals
Read and follow all instructions before use
REMOVE BEFORE USE!

Note. The marking shall be temporarily affixed and be readily visible on the heater and shall allow easy removal of the label, hangtag, or similar means to display the markings. The illustration shall consist of a contrasting color background. The height and width of the warning symbol shall be no less than 0.50 inch (12.7 mm). The information on the label shall to be legibly printed and shall contrast with the background. The heading "WARNING - Risk of Heat Stroke (Hyperthermia)" shall at least 1/4 inch (6.35 mm) in height. The remaining text, "Hyperthermia can result in death in infants or others Use caution to avoid overheating individuals Read and follow all instructions before use REMOVE BEFORE USE!" shall be no less than 1/8 inch (3.175 mm) in height. The "WARNING" and "REMOVE BEFORE USE!" lettering shall be in upper case letters.

7.0 Illustrations

Illustration 2 - Important instructions of Instruction Manual

Lasko®

Whole Room Ceramic Heater with Remote Control Instruction Manual

Used for Model:
CC20150







Register Your Product Today
You will benefit from:

- Efficient and enhanced support
- Future product updates

Have a Question? Need a Part?
Please Do Not Return Product to Store!
Chat with us at www.lasko.com Monday-Friday 8am - 9pm EST
(Valid in U.S. and Canada only)

READ AND SAVE THESE INSTRUCTIONS
Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage!
This heater is for residential use only. It is not intended to be used in commercial, industrial or agricultural settings.

7.0 Illustrations

Illustration 2.1 - Important instructions of Instruction Manual-continued



READ ALL INSTRUCTIONS BEFORE USING THIS HEATER.

WARNING

IMPORTANT SAFETY INSTRUCTIONS

When using electrical appliances, these instructions and warnings should always be followed to reduce the risk of fire, electrical shock, injury to persons and hyperthermia:

TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR PERSONAL INJURY, ALWAYS FOLLOW THESE IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS:

-  Plug heaters directly into a 120v wall outlet/receptacle only. Never use with an extension cord. Do not plug heater into any other cord connected device, such as a power strip, surge protector, multiple outlet adapter, cord reel or outlet-type air freshener. The use of such devices may create a fire hazard. Do not plug multiple devices in the same outlet or on same circuit as heater.
-  Faulty wall outlet connections may cause the wall outlet to overheat. Be sure that heater plug fits tightly into outlet before each use. During use, check to make certain the heater plug is not overheating. If necessary have a qualified electrician check and/or replace the wall outlet. Do not use this heater with any solid state speed control devices.
-  Make certain that the power source conforms to the electrical requirements of the heater.
-  Extreme caution is necessary when any heater is used by or near children or invalids. The heater should not be left operating unattended. Never leave children unattended when the heater is on or plugged in.
-  This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not attempt to defeat this safety feature.
-  Do not use the heater in areas where gasoline, paint, or flammable liquids are used or stored. Do not use heater in locations where flammable or explosive chemicals are stored, or in wet atmospheres.
-  Do not operate any heater with a damaged cord or plug or after the heater malfunctions, or has been dropped or damaged in any manner. To disconnect heater, turn the heater off then remove the plug from the outlet.
-  Always unplug heater when not in use. Unplug power cord before servicing or moving the heater.
-  Do not insert or allow fingers or foreign objects to enter any ventilation or exhaust opening as it may cause an electric shock, fire, or damage the heater. Do not block or tamper with the heater in any manner while it is in operation.
-  Do not block air intakes or exhaust in any manner. Do not place on soft surfaces, like a bed, where openings may become blocked. Do not depend on the on/off switch as the sole means of disconnecting power when servicing or moving the heater. Always unplug the power cord.
-  Hyperthermia can result in death. Symptoms of hyperthermia include high body temperature, headache, nausea, vomiting, tiredness, dizziness, fainting, and rapid pulse. If you begin to experience symptoms related to hyperthermia, turn off the heater and seek medical attention.
-  To avoid excessive room temperatures which can cause hyperthermia: DO NOT leave product running unattended in a confined space around infants, or individuals with reduced physical, sensory, or mental capabilities.

CAUTION

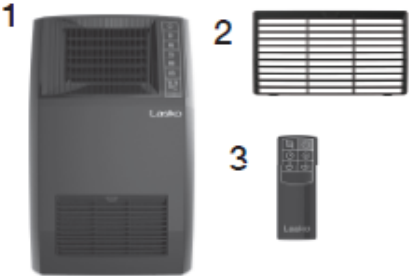
- Always unplug heater when not in use. Unplug power cord before servicing or moving the heater.
- Do not insert or allow fingers or foreign objects to enter any ventilation or exhaust opening as it may cause an electric shock, fire, or damage the heater. Do not block or tamper with the heater in any manner while it is in operation.
- Do not block air intakes or exhaust in any manner. Do not place on soft surfaces, like a bed, where openings may become blocked. Do not depend on the on/off switch as the sole means of disconnecting power when servicing or moving the heater. Always unplug the power cord.
- Always place the heater on a stable, flat, level surface when operating, to avoid the chance of the heater overturning. Locate the power cord so the heater or other objects are not resting on it. Do not run power cord under carpeting. Do not cover power cord with throw rugs, runners, or similar coverings as this may cause cord to overheat. Arrange power cord away from room traffic and where it will not be tripped over.
- This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Always use handle when moving this heater. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes and curtains at least 3 feet (0.9 M) from the front of the heater and keep them at least 1 foot (0.3 M) from the sides and rear.
- This heater is not intended for use in wet or damp locations. This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate a heater where it may fall into a bathtub or other water container.
- Do not use heater outdoors.
- This heater is not suitable for use in agricultural facilities including areas where livestock, poultry or other animals are confined. Please refer to national electric code (nec) article 547-7 (2008), or applicable state or local codes or standards relating to electrical requirements for agricultural buildings. This heater does not meet the requirements of nec article 547-7 (2008).
- This heater is not suitable for use in hazardous locations. Please refer to national electric code (nec) article 500 or applicable state or local codes or standards relating to electrical requirements for hazardous locations. This heater does not meet the requirements of nec article 500 (2008).
- Remote controls for other appliances or electronic equipment can sometimes interfere with the operation of this heater. If this occurs, move the heater to another location.
- Keep heater remote control unit away from chairs and your bed where it may be sat or laid upon and inadvertently turn on the heater.
- 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.

SAVE THESE INSTRUCTIONS

7.0 Illustrations

Illustration 2.2 - Important instructions of Instruction Manual-continued

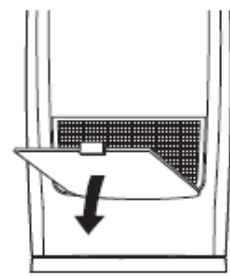
Parts Included



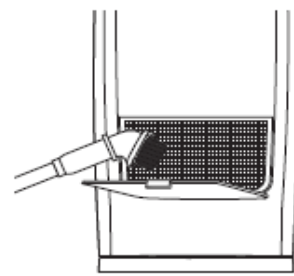
① Body
② Filter Cover

③ Remote Control

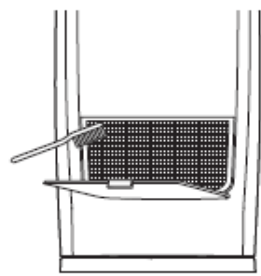
Clean Filter



1. Push Tab in, then remove the *Filter Cover* from the front of the Heater.



2. Vacuum intake grills every two weeks; this will help to maintain the optimum Heater performance.



3. Use a soft bristle brush to gently loosen any dirt not removed by the vacuum. *Replace Filter Cover.*

Controls



Power Button
Turn Heater ON/OFF by pressing the Power Button.



Heat Mode Button
Heat can be adjusted to H3 (High), H2 (Med), or H1 (Low).



Timer Button
The timer can be set for up to 12 hours. 0.5 - 12.0 hours in 0.5-hour intervals up to 2 hours, 1-hour increments from 2 hours to 12 hours. Continue pressing the Timer Button to reach the desired time setting.



*** Auto Eco™ Button (+)**
Press to Increase the desired room temperature.



*** Auto Eco™ Button (-)**
Press to Decrease the desired room temperature.



Louver Oscillation Button
Press to Start/Stop the Louver Oscillation function.

*** FOR MORE DETAILED DESCRIPTION OF AUTO ECO™ FUNCTION, SEE PAGE 4**

REMOTE CONTROL

All the functions performed with the Remote Control work identically to the manual controls except changing °F to °C.

1. Install two "AAA" batteries (not included).
2. Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
3. **DO NOT DISPOSE OF BATTERIES IN FIRE. BATTERIES MAY EXPLODE OR LEAK.**
4. Always purchase the correct size and grade of battery most suitable for the intended use.
5. Replace all batteries of a set at the same time.
6. Clean the battery contacts and also those of the device prior to battery installation.
7. Ensure the batteries are installed correctly with regards to polarity (+ and -).
8. Remove batteries from equipment that is not to be used for an extended period of time.
9. Remove used batteries promptly.

7.0 Illustrations

Illustration 2.3 - Instruction Manual-continued

AUTO ECO™ THERMOSTAT

Pressing the (+) or (-) buttons while in any Heater function or speed will turn on the Auto Eco™ function.

1. To set the room at a specific temperature press the (+) or (-) buttons to the desired temperature. The display will now reflect the Auto Eco™ symbol and the temperature will be flashing. The Unit is now in Auto Eco™ Mode.
2. When you reach the temperature at which you want to set the unit, the set temperature will flash several times and then the display will return to indicate the current room temperature and will gradually change as the room temperature changes. NOTE: the temperature display does not indicate the temperature of the heated air being emitted by the Unit.
3. Heater will run on HIGH heat when the ambient temperature is less than the set temperature.
4. Heater will run on LOW heat when ambient temperature reaches set temperature and will continue to run on LOW heat until ambient temperature reaches 2 degrees fahrenheit above set temperature.
5. Heater will turn OFF once the ambient temperature is greater than 2 degrees fahrenheit above set temperature. The fan will continue to run for 15 seconds after the heater element is turned off.

All of this happens automatically with Lasko Auto Eco™ Technology. To deactivate the Auto Eco™ function, turn the Unit off or press the heat mode button.

NOTE: In Auto Eco™, the Unit will display the current room temperature in ° Fahrenheit. Press the (+) and (-) buttons at the same time to change the display to ° Celsius. Press the same two buttons together again to change the display back to ° Fahrenheit.

SAFETY FEATURE

1. A Tip-Over Switch is built in to prevent operation if the Heater is tipped over.
2. A thermal overload protector is built in to prevent overheating.
3. If an overheat temperature is reached, the Heater will automatically shut off. It can only resume operation when the user resets the unit.

To Reset Heater:

1. Unplug the Heater and wait 10 minutes for the Heater to cool down.
2. After the Heater has cooled down, plug the unit into a 120V~ electrical outlet and follow the operation instructions described in this manual.

TROUBLE SHOOTING TIPS

If your Heater shuts off unexpectedly or fails to operate, the previously mentioned safety feature may have been activated to prevent overheating.

1. Be sure the power cord is plugged into a working electrical outlet.
2. Make certain the batteries in the remote control are new and properly installed.
3. Check your Temperature setting. The Heater may be off because it has reached the desired temperature setting.
4. If your Heater runs for several minutes and shuts off repeatedly, your Heater may require cleaning. See Maintenance section below.

STORAGE: Store the Heater with these instructions in the original carton in a cool, dry place.

DISPOSITION: Corrugated packaging materials are recyclable. For environmentally responsible disposal of this product, contact your local waste service provider or visit www.1800recycling.com®.

MAINTENANCE

⚠ WARNING

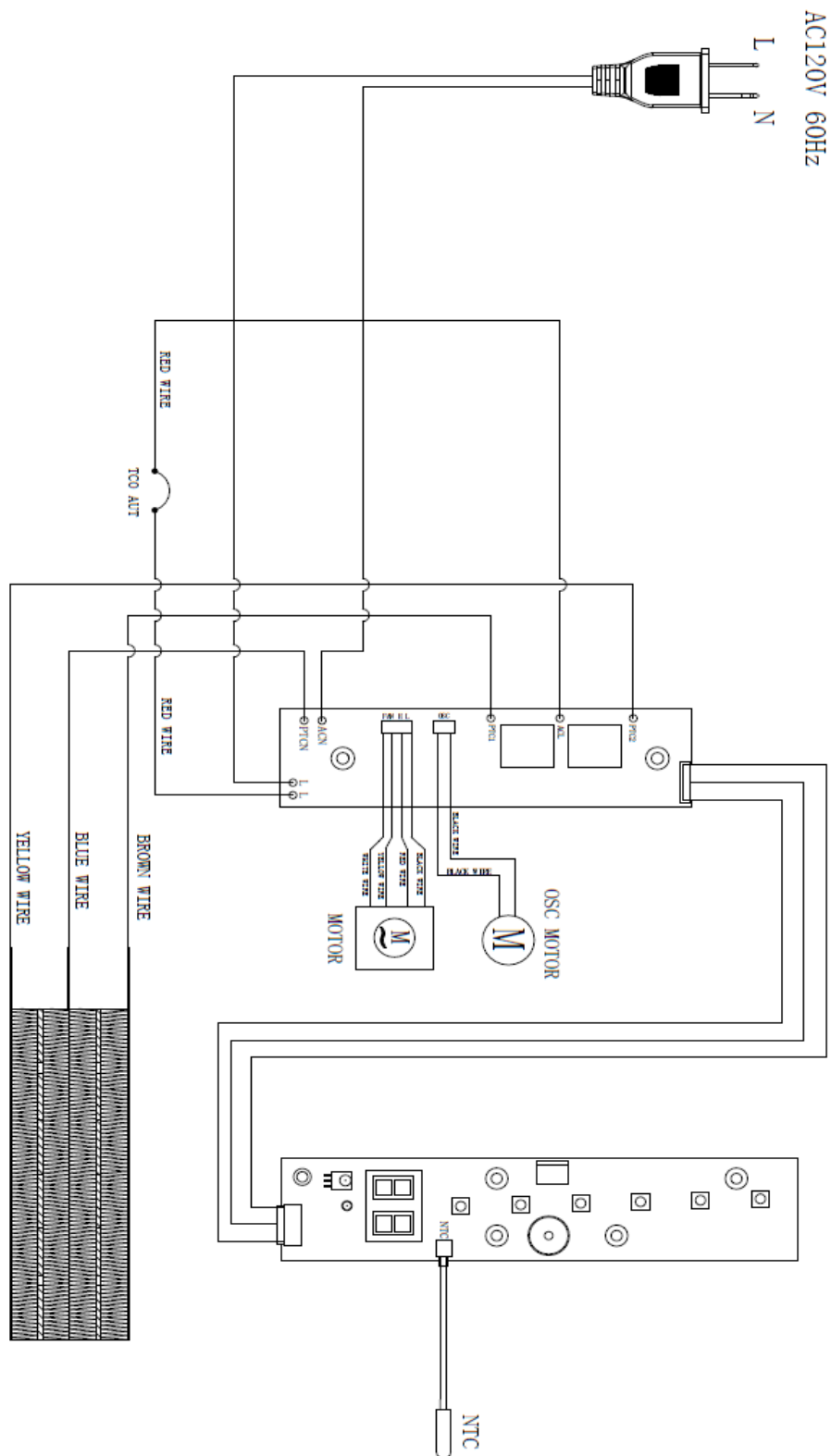
To reduce the risk of electrical shock and fire please observe the following instructions. Cleaning the Heater regularly will help to maintain its efficiency.



- Always unplug the cord before moving, servicing or cleaning.
- NEVER place the Heater in or near water. DO NOT IMMERSE HEATER IN WATER.
- Clean the Heater only with a vacuum equipped with a brush attachment; the vacuum will remove the lint and dirt from the surface of the Heater.
- Vacuum intake grills every two weeks; this will help to maintain the optimum Heater performance.
- Use a toothbrush or other soft bristle brush to gently loosen any dirt not removed by the vacuum.
- NEVER attempt to take apart the Heater.
- Clean the body of the Heater with a soft cloth only.
- NEVER use ALCOHOL or SOLVENTS such as gasoline, benzene, paint thinner, or other harsh cleaners.

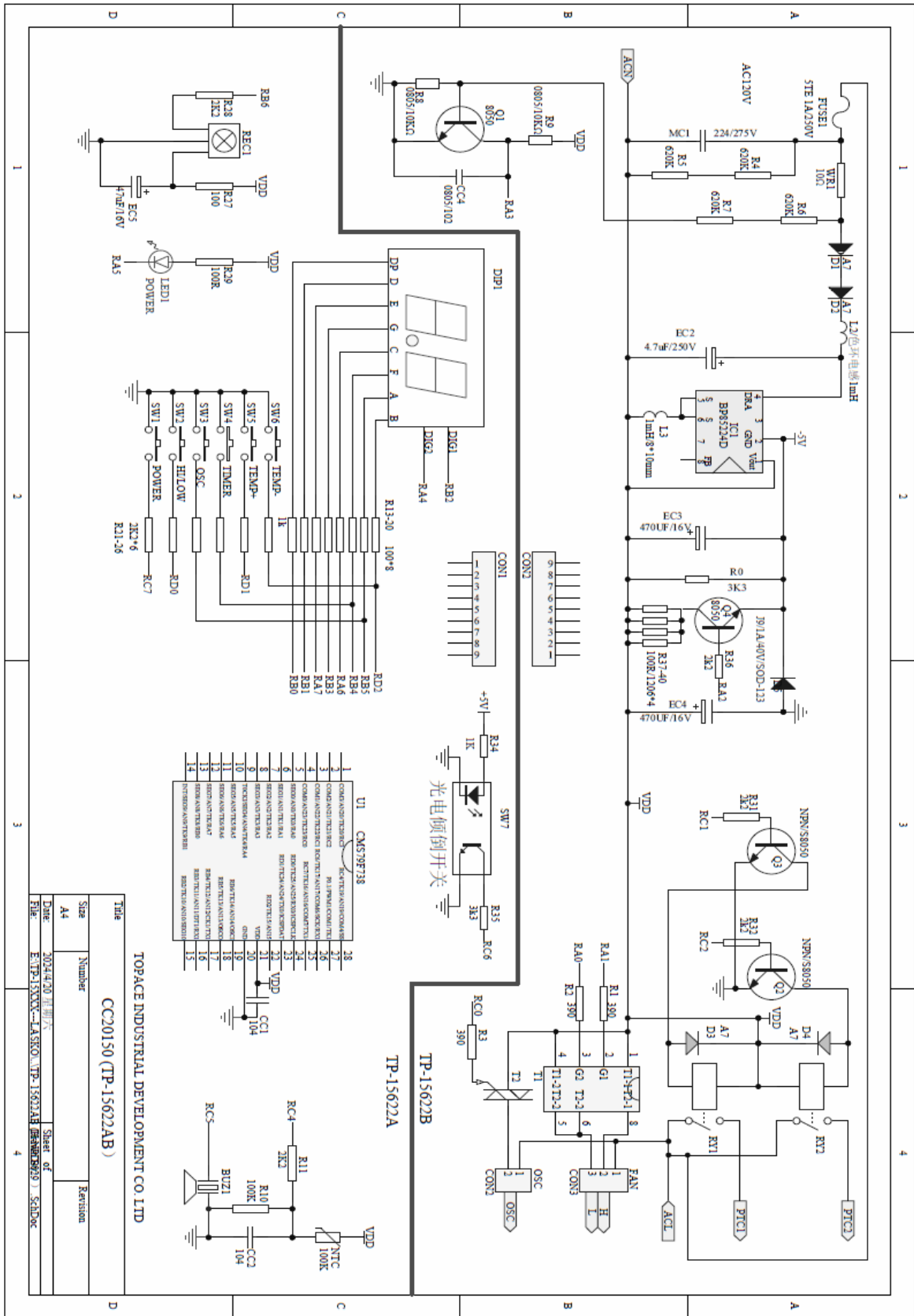
7.0 Illustrations

Illustration 3 - Wiring diagram for model CC20150



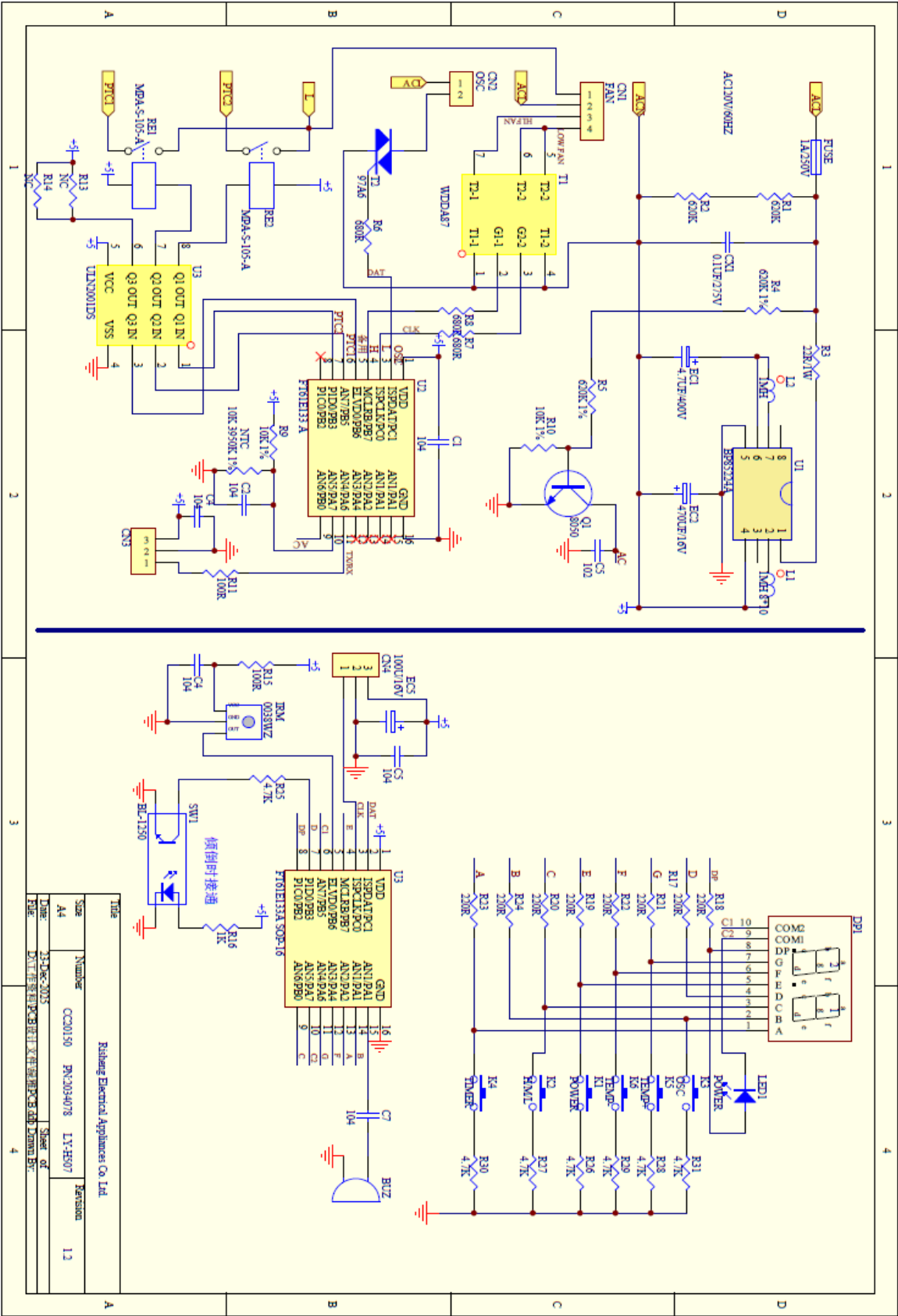
7.0 Illustrations

Illustration 3.1 - Circuit diagram of power board and control board for model CC20150



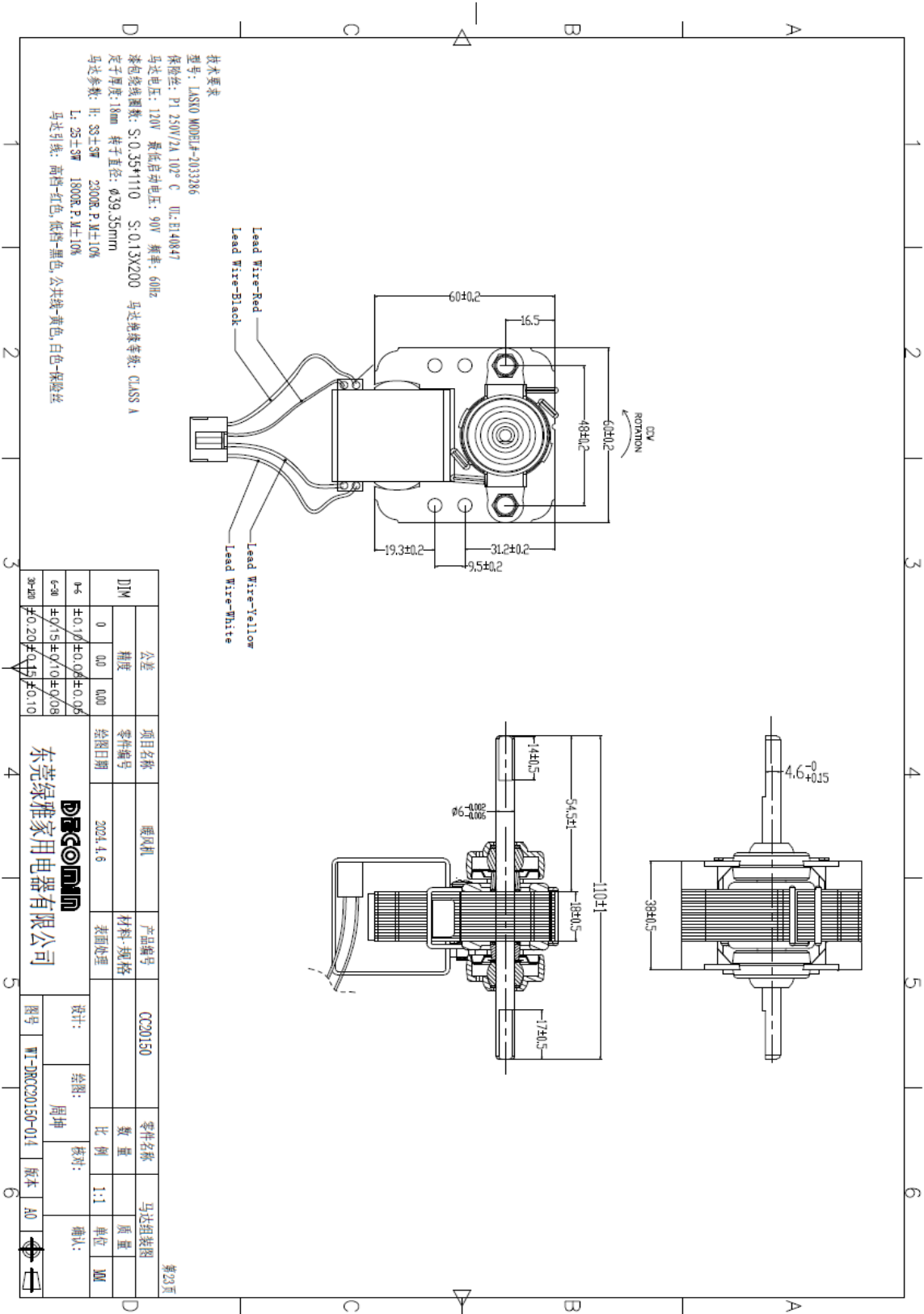
7.0 Illustrations

Illustration 3.2 - Circuit diagram of power board and control board for model CC20150



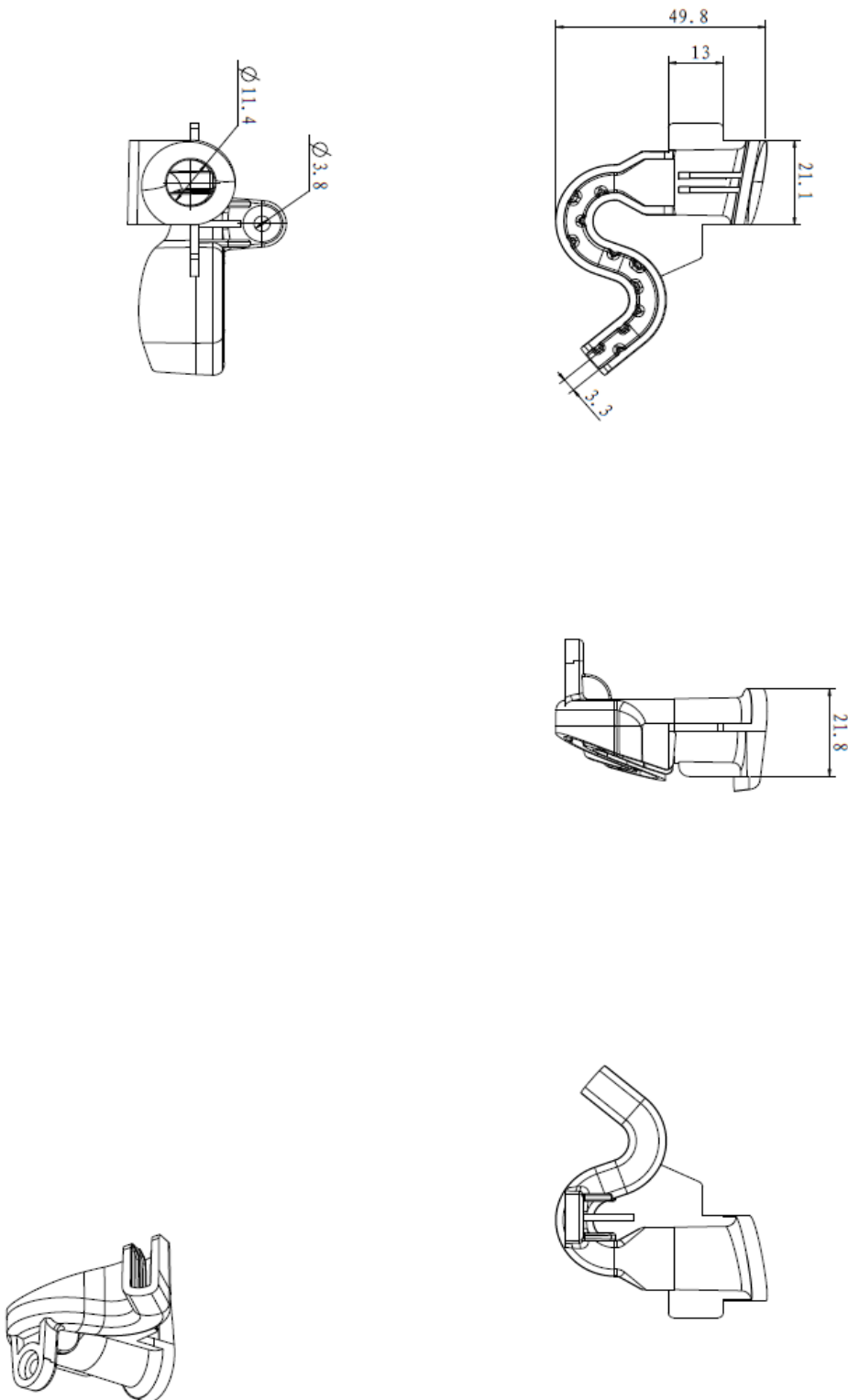
7.0 Illustrations

Illustration 4 - Specification of motor, model 2033286



7.0 Illustrations

Illustration 5 - Specification of Strain Relief



7.0 Illustrations

Illustration 6 - Risheng PCB Electric Schematic

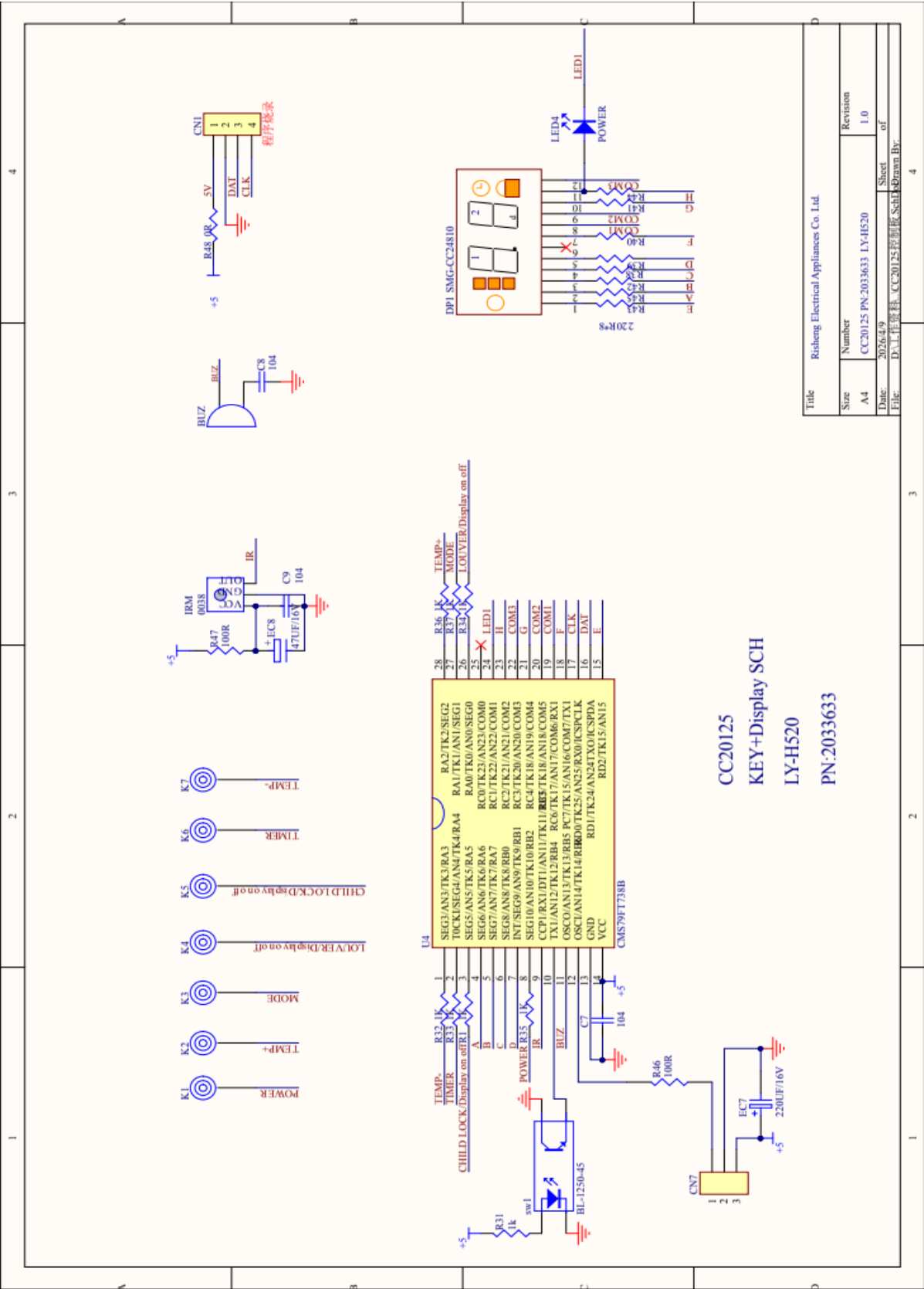
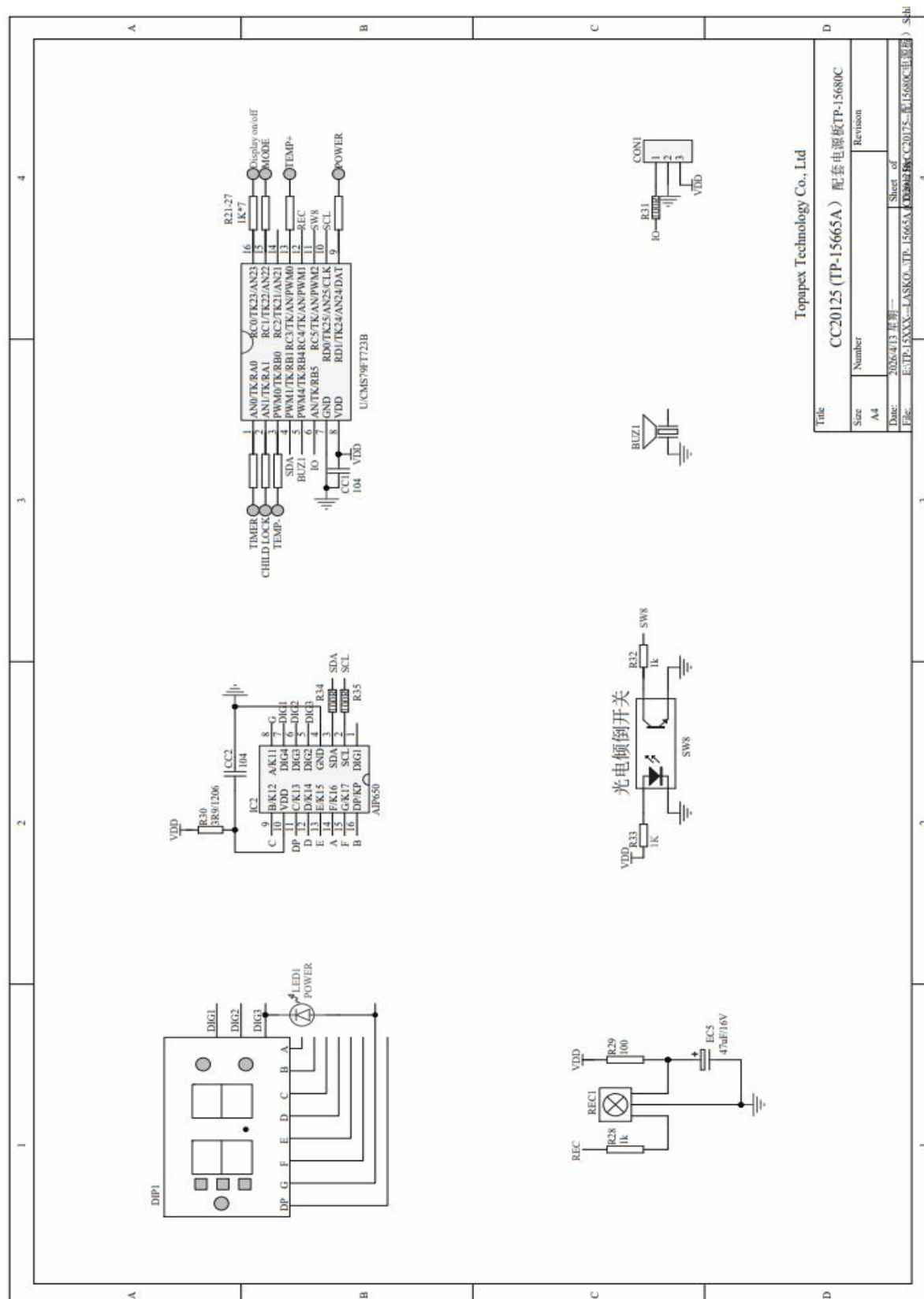


Illustration 7 - Topapex PCB Electric Schematic



8.0 Test Summary					
Evaluation Period	25-Apr-2024 to 24-May-2024			Project No.	240425107GZU
Sample Rec. Date	25-Apr-2024	Condition	Prototype	Sample ID.	S240425107-001~013
Test Location	Intertek Testing Services Shenzhen Ltd., Shunde Branch Room 202/203/204, Block 8, Tianfulai International Industrial Park, No. 3 Changfu West Road, Rongli Community, Ronggui Subdistrict, Shunde District, Foshan, Guangdong, 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.					
The following testing were performed:					
Test Description			UL 1278:2014 Ed.4+R:08Mar2024 / Clause	UL 746C:2018 Ed.7+R:30Jun2022 / Clause	UL 1004-3:2015 Ed.2+R:12Jan2023 / Clause
Accessibility of Live Parts			8	--	--
Accessibility of Moving Parts			9	--	--
Guarding of Heating Elements			10	--	--
Power Input Test			38	--	--
Leakage Current Test			39	--	--
Normal Temperature Tests			40	--	--
Overvoltage Test			42.2	--	--
Stalled-fan Test			42.3	--	--
Tip-over Test			42.4	--	--
Vertical-wall Test			42.5	--	--
Terry Cloth Drape Test			42.6	--	--
Terry Cloth Band Drape Test			42.7	--	--
Component Failure Test			47	--	--
Dielectric Voltage-Withstand Test			48	--	--
Stability of Movable Heaters			51	--	--
Drop Test			53	--	--
Strain Relief Test			59	--	--
Input Tests			SC6	--	--
Normal Temperature Tests			SC7	--	--
Low Ambient Temperature Starting Test			SC8	--	--
Restricted Inlet, Abnormal Operation Test			SC9	--	--
Overload and Endurance Test			SC14	--	--
Strain-Relief Test after Mold Stress-Relief Distortion			--	31	--
Resistance to Impact Test			--	56	--
Abnormal Operation Test			--	59	--
Mold Stress-Relief Distortion / Mold Stress-Relief Distortion Test			--	29/61	--
Locked Rotor Temperature Test			--	--	8.4

8.0 Test Summary					
Evaluation Period	4-Jan-2026 to 10-Mar-2026		Project No.	260104211GZU	
Sample Rec. Date	4-Jan-2026	Condition	Prototype	Sample ID.	S260104211-001~005
Test Location	Intertek Testing Services Shenzhen Ltd., Shunde Branch Room 202/203/204, Block 8, Tianfulai International Industrial Park, No. 3 Changfu West Road, Rongli Community, Ronggui Subdistrict, Shunde District, Foshan, Guangdong, 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.					
Due to the previous testing performed above, for optional PCBA and TCO, only the following testing were performed:					
Test Description	UL 1278:2014 Ed.4+R:08Mar2024 / Clause	UL 746C:2018 Ed.7+R:30Nov2023 / Clause	--		
Spacing	35	--	--		
Power Input Test	38	--	--		
Leakage Current Test	39	--	--		
Normal Temperature Tests	40	--	--		
Overvoltage Test	42.2	--	--		
Stalled-fan Test	42.3	--	--		
Tip-over Test	42.4	--	--		
Vertical-wall Test	42.5	--	--		
Terry Cloth Drape Test	42.6	--	--		
Terry Cloth Band Drape Test	42.7	--	--		
Component Failure Test	47	--	--		
Dielectric Voltage-Withstand Test	48	--	--		
Drop Test	53	--	--		
Input Tests	SC6	--	--		
Normal Temperature Tests	SC7	--	--		
Restricted Inlet, Abnormal Operation Test	SC9	--	--		
Overload and Endurance Test	SC14	--	--		
Abnormal Operation Test	--	59	--		
Evaluation Period	20-Apr-2026 to 28-Apr-2026		Project No.	G106577203	
Sample Rec. Date	20-Apr-2026	Condition	Production	Sample ID.	1, 2, 3
Test Location	Lasko Products LLC, 820 Lincoln Ave. West Chester, PA 19380				
Test Procedure	Test Data Acceptance - Level 3				
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 1278:2014 Ed.4+R:08Mar2024 / Clause	UL 746C:2018 Ed.7+R:30Nov2023 / Clause	--		
Mold Stress Relief Distortion Test	9.4	29, 61.2	--		
Impact Polymeric Materials Test	12.2	56	--		
Push Back Strain Relief Test	16.13	29, 61.2	--		
Power Input Test	38, SC6	--	--		
Leakage Current Test	39	--	--		
Normal Temperature Test	40, SC7	--	--		
Abnormal Operation Test - Overvoltage & Extreme Operating Voltage (Maximum) Test	42.2	--	--		
Abnormal Operation Test - Stalled Fan/Stalled Motor Test	42.3	--	--		
Abnormal Operation Test - Tip-Over Test (Movable Heaters)	42.4	--	--		

8.0 Test Summary					
Abnormal Operation Test - Vertical-Wall Test (Movable Heaters)		42.5	--	--	
Abnormal Operation Test - Terry Cloth Drape Test		42.6	--	--	
Abnormal Operation Test - Terry Cloth Band Drape Test		42.7	--	--	
Component Failure Test		47	--	--	
Dielectric Voltage Withstand Test		48	--	--	
Insulation Resistance Test		49	--	--	
Stability of Movable Heaters Test		51	--	--	
Element Support Impact Tests - Without Accessible Dead Metal Parts		52	--	--	
Strain Relief Test		59	29, 61.2	--	
Strain Relief Test Following Mold Stress Relief Distortion		59	29.1c, 61.2	--	
Low Ambient Temperature Starting Test: Movable SC		SC8	--	--	
Abnormal Operation Test - Restricted Inlet		SC9	--	--	
Evaluation Period	05/05/2026 through 05/06/2026		Project No.	G106630809	
Sample Rec. Date	4-May-2026	Condition	Production	Sample ID.	1, 2, 3
Test Location	Lasko Products LLC, 820 Lincoln Ave. West Chester, PA 19380				
Test Procedure	Test Data Acceptance - Level 3				
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		ANSI/UL 1278:2014 Ed.4+R:08Mar20 24 / Clause	UL 746C:2018 Ed.7+R:30Nov 2023 / Clause	--	
Mold Stress Relief Distortion Test		9.4	29, 61.2	--	
Impact Polymeric Materials Test		12.2	56	--	
Strain Relief Test		16.13	29, 61.2	--	
Push Back Strain Relief Test		16.13	29, 61.2	--	
Power Input Test		38, SC6	--	--	
Strain Relief Test Following Mold Stress Relief Distortion		59	29.1c, 61.2	--	
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:	Derrek Root		Reviewed by:	Angel Valencia	
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	Lasko Products LLC
Address	820 Lincoln Avenue, West Chester, PA 19380
Country	USA
Product	PTC Fan Heater

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

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 Shenzhen Ltd., Shunde Branch

ETL Component Evaluation Center

Room 202/203/204, Block 8, Tianfulai International Industrial Park, No.3, Changfu West Road,
Rongli Community, Ronggui Subdistrict,

Shunde District, Foshan, Guangdong, China

Attn: Ms. Joey Kuang

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

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:

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
All products covered by this Report.	1000 VAC	60 s
	or	
	1200 VAC	1 s

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
25-Feb-2025 250124082GZU	Kenny Xian / Mercy Liu	1.0	-	Added manufacturer 2 "MAY QUALITY INDUSTRIES SDN. BHD.".
		3.0	18~20	Added these photos. After evaluation, no additional testing is required.
		4.0	24	Added text "May be marked with "KY"." to technical data.
		5.0	28	Added optional lead wire type 1569.
10-Mar-2026 260104211GZU	Kenny Xian / Mercy Liu	3.0	21~24	Added these photos.
		4.0	19~22	Added number 22 to photo # cell.
		4.0	19	Added text "or 0.1μF" to technical data.
		4.0	22	Changed the technical data of model MPA-S-105-A from "15A, 125VAC" to "10A, 250VAC".
		4.0	23	Added optional TCO model AUT-75-P.
		6.0	8	Added number 3.2 to this item.
		7.0	3.2	Added this item.
		8.0	-	Added a new test block for this evaluation.
		8.1	-	Revised with new signatures.

12.0 Revision Summary

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

Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		2	-	Updated Model. From: CC20150 To: CC20150, CC20125. Updated Model Similarity from NA to CC20125 is the same as CC20150 except for enclosure and PCB. Controls are placed differently see photo 1 & 25. CC20125 louver is manually adjusted instead of controlled by motor.
		3	25	Added Photo 25 - External View of Model CC20125 (Front)
		3	26	Added Photo 26 - External View of Model CC20125 (Rear)
		3	27	Added Photo 27 - Risheng Power PCB for model CC20125
		3	28	Added Photo 28 - Risheng Display PCB for model CC20125
		3	29	Added Photo 29 - Topapex Power PCB for model CC20125
		3	30	Added Photo 30 - Topapex Display PCB for model CC20125
		4	1	Added alternative components: Manufacturer:LG Chem Ltd. And Silver Age Engineering Plastics (Dongguan) Co Ltd. Type/model:GN-1006FM and 230
		4	2	Added alternative components: Manufacturer:LG Chem Ltd. And Silver Age Engineering Plastics (Dongguan) Co Ltd. Type/model:GN-1006FM and 230
		4	4	Added alternative components: Manufacturer:Lotte Chemical Corporation. Type/model:VH-0815(+)

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
5-Jun-2026	Brendan Pursoo	4	5	Added alternative components: Manufacturer: Polyrocks Chemical Co Ltd and Silver Age Engineering Plastics (Dongguan) Co Ltd. Type/model: 5000(f1) and 433+
		4	8	Added alternative components: Manufacturer: Polyrocks Chemical Co Ltd and Silver Age Engineering Plastics (Dongguan) Co Ltd. Type/model: 5000(f1) and 433+
		4	11	Added alternative components: Manufacturer: Polyrocks Chemical Co Ltd and Silver Age Engineering Plastics (Dongguan) Co Ltd. Type/model: 5000(f1) and 433+
		4	12	Added alternative components: Manufacturer: Kingfa Sci & Tech Co Ltd. And Nantong Orient Plastics Co Ltd. Type/model: PBT-RG301(r1) and 3080GF30
		4	14	Added alternative components: Manufacturer: Jiangmen Dongrun Machinery and Electrical Co Ltd and Minzhou Electric Co Ltd Type/model: TY50J and 50TYZ-0.2B02
		4	20	Added alternative components: Manufacturer: Various Type/model: Various
		4	24	Added alternative components: Manufacturer: KAI YI ELECTRIC HEATING(M) SDN. BND. And Dongguan City LongKey Electronic Co. Ltd. Type/model: LYB-120-1500 and RFB062E/1K5
		4	30	Added alternative components: Manufacturer: LG Chem Huizhou Petrochemical Co Ltd. And Ningbo LG Yongxing Chemical Co Ltd. Type/model: HP181 and HI-121H
		4	33	Added component Power PCB
		4	34	Added component Display PCB
		7	6	Added Illustration 6 - Risheng PCB Electric Schematic
		7	7	Added Illustration 7 - Topapex PCB Electric Schematic
		8	-	Added new test block
G106577203CRT	Russell Ransom	8.1	-	Updated signatures. From: Kenny Xian and Mercy Liu To: Brendan Pursoo and Russell Ransom

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
21-Jul-2026	D. Root <i>DR</i>	1	-	Changed standard from "Movable and Wall- or Ceiling-Hung Electric Room Heaters [UL 1278:2014 Ed.4+R:08Mar2024]" to "Movable and Wall- or Ceiling-Hung Electric Room Heaters [ANSI/UL 1278:2014 Ed.4+R:08Mar2024]"
G106630809CRT	A. Valencia <i>A.V.</i>	2	-	Added model CC20175
		2	-	Added to model similarity CC20175 is the same as CC20125 except louver is controlled by oscillation motor and different display board.
		3	31	Added Photo 31 - Model CC20175
		3	32	Added Photo 32 - Display PCB for Risheng Electrical Appliances Co. Ltd., model CC20175
		3	33	Added Photo 33 - Display PCB for Shenzhen Topapex Technology Co Ltd., model CC20175
		4	14	Added alternate, FOSHAN JUNTAI ELECTRICAL APPLIANCES CO LTD, model TYC50C
		4	16	Removed various/various component manufacture and model and added Kingfa Sci & Tech Co Ltd., model PBT-RG301(r1) and Nantong Orient Plastics Co Ltd. Model 3080GF30.
		4	35	Added display PCB- , Risheng Electrical Appliances Co. Ltd., and Shenzhen Topapex Technology Co Ltd., model 2034129
		8	-	Added new test block
		8.1	-	Updated signatures. From: Brendan Pursoo and Russell Ransom To: Derrek Root and Angel Valencia