

1.0 Reference and Address			
Report Number	106214906CRT-001	Original Issued: 5-Jun-2025	Revised: 24-Jun-2026
Standard(s)	Movable and Wall- or Ceiling-Hung Electric Room Heaters [ANSI/UL 1278:2014 Ed.4+R:08Mar2024] Electric Air-Heaters (R2022) [CSA C22.2#46:2013 Ed.9]		
Entirely Replaces Report Number	105871066CRT-001		
Applicant	Lasko Products LLC	Manufacturer 1	Risheng Electrical Appliances Co. Ltd.
Address	820 Lincoln Avenue, West Chester PA 19380	Address	Chuangye Industry Zone, Xinhe, Wanjiang District Dongguan City, Guangdong Province, 523000
Country	USA	Country	China
Contact	Parvavathi Kodandaraman	Contact	Xiao Yao Ren
Phone	610-719-8949	Phone	86-769-88991018
FAX	610-692-9325	FAX	86-769-88991008
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		
Phone	13416618860		
FAX	N/A		
Email	iso2@decomin.com.cn		

2.0 Product Description	
Product	Electric Heater
Brand name	Lasko, Air King
Description	The products covered by this report are household, indoor use, cord connected, movable heaters.
Models	CL22100, CL22100C, 822100
Model Similarity	CL22100C is the same as CL22100 except polymeric enclosure and structure materials. Model 822100 is the same as CL22100 except these models use a 3-wire supply cord and can use the Air King branding.
Ratings	120V, 60Hz, 1500W or 120V, 60Hz, 1500W @25°C 120V, 60Hz, 1500W @0°C Refer to Illustration 1 for specific use.
Other Ratings	NA

3.0 Product Photographs

Photo 1 - Front



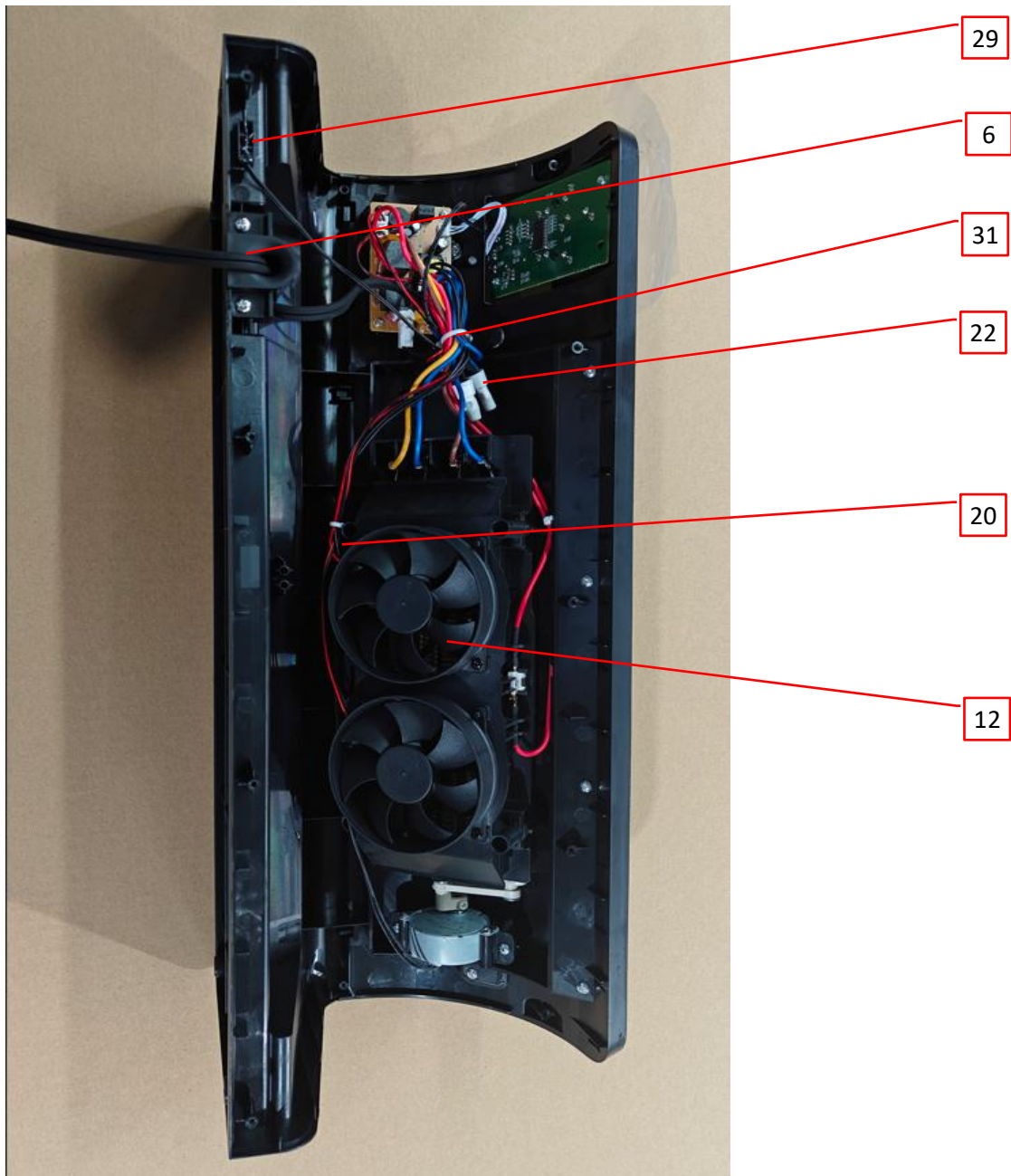
3.0 Product Photographs

Photo 2 - Rear



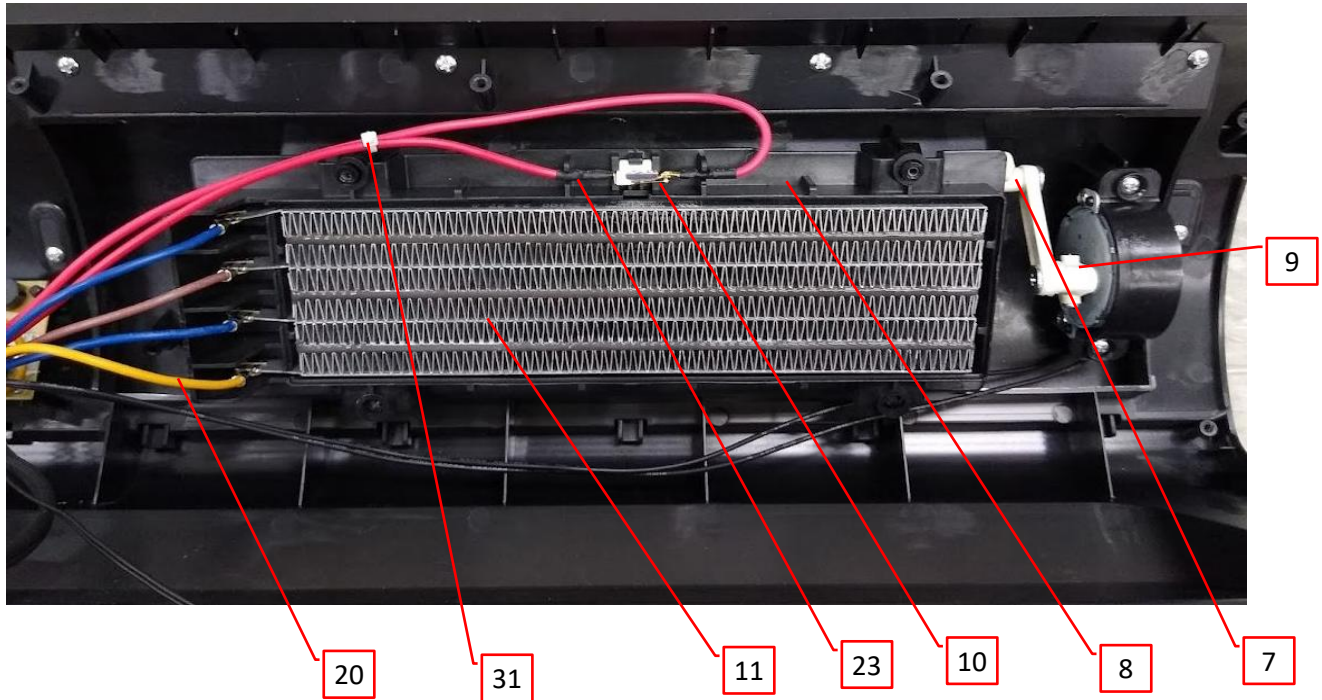
3.0 Product Photographs

Photo 3 - Internal View



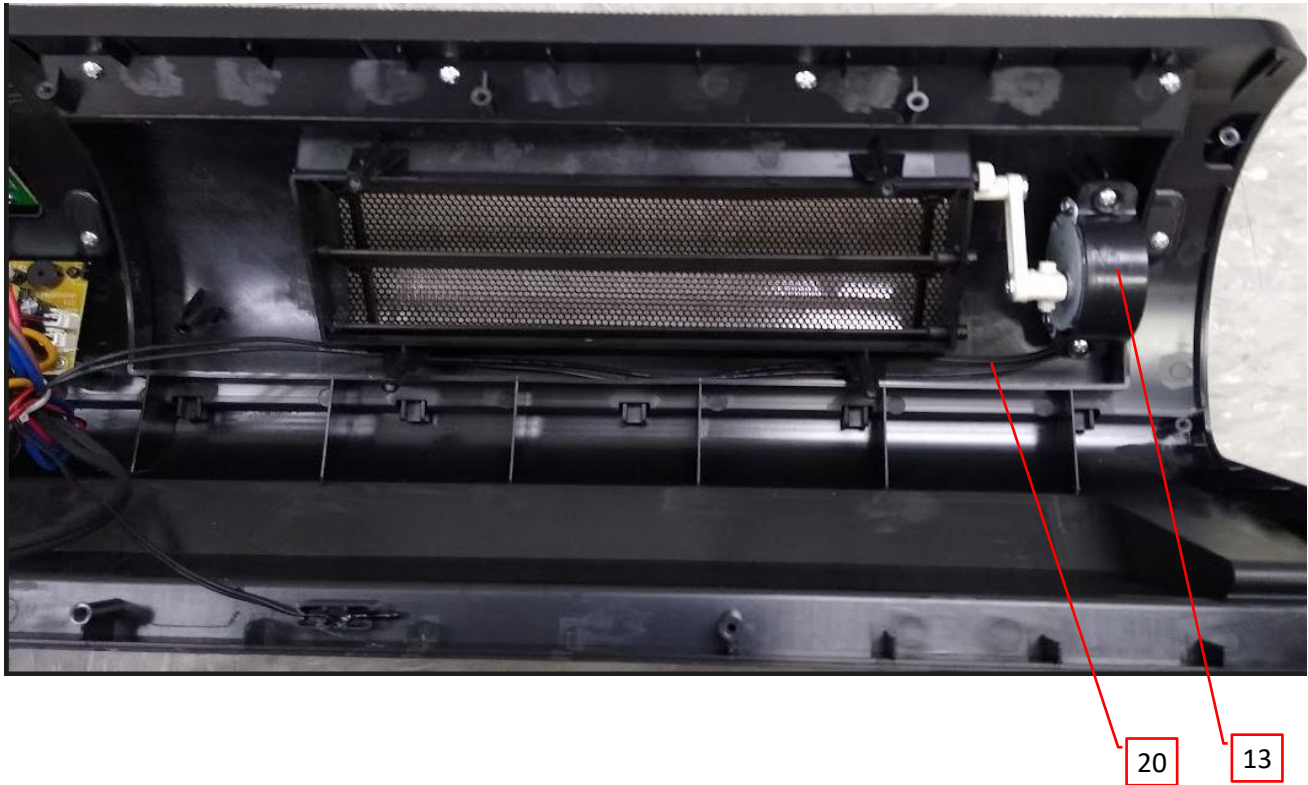
3.0 Product Photographs

Photo 4 - Element



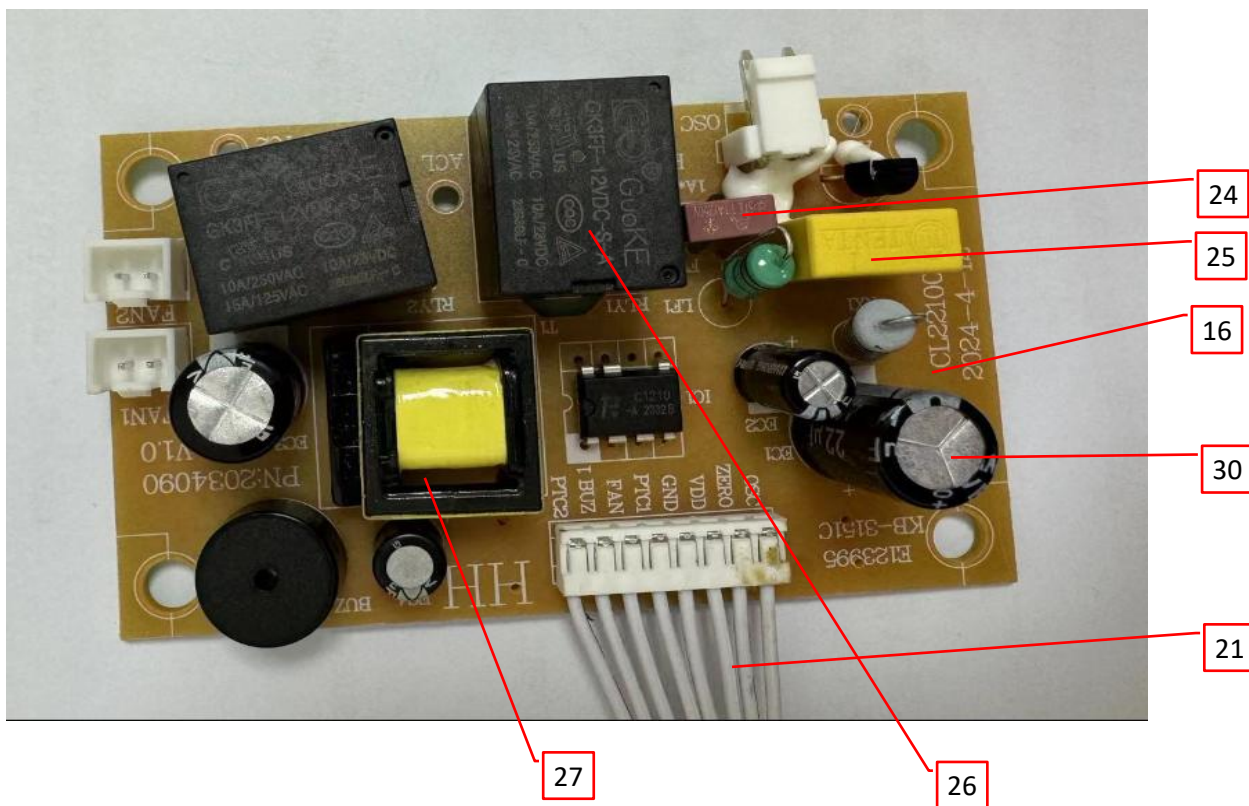
3.0 Product Photographs

Photo 5 - Oscillation Motor



3.0 Product Photographs

Photo 6 - Power Supply Board Guangdong Front



3.0 Product Photographs

Photo 7 - Power Supply Board Guandong Rear

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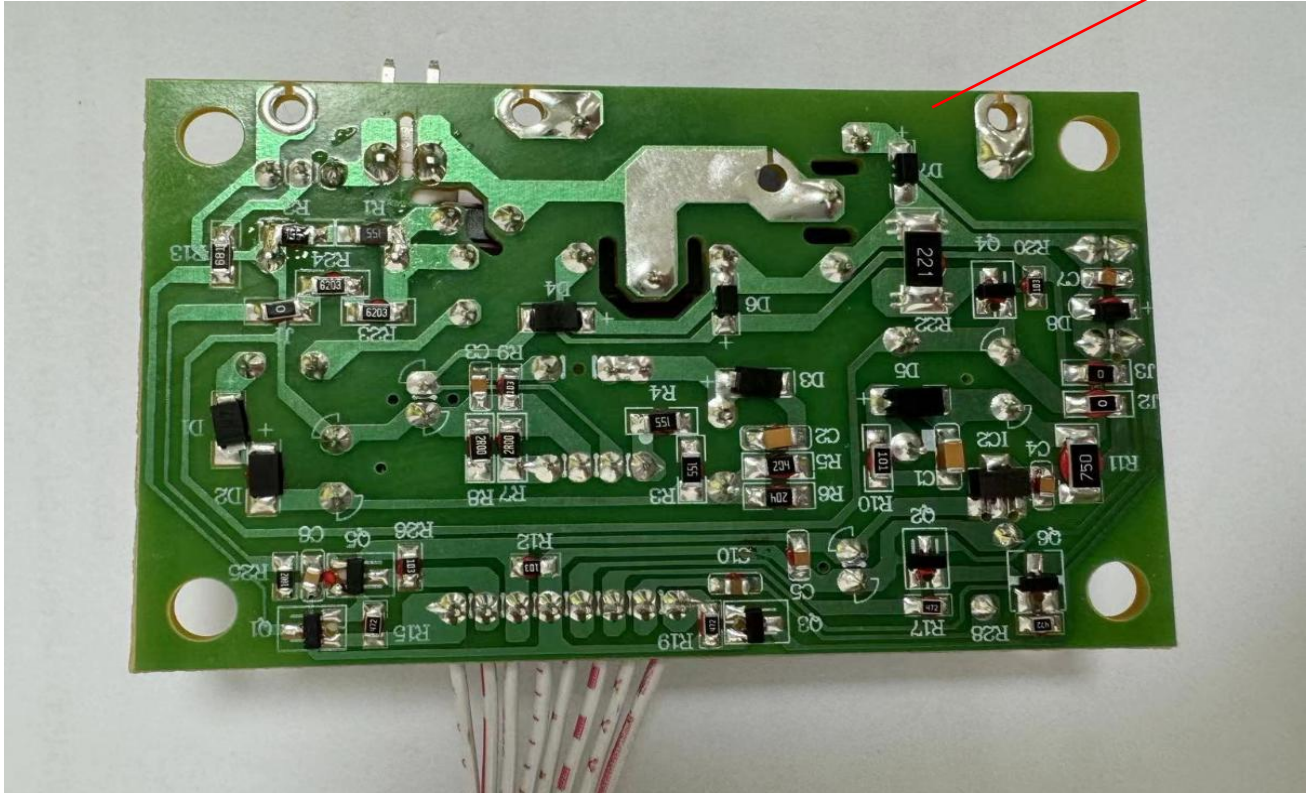
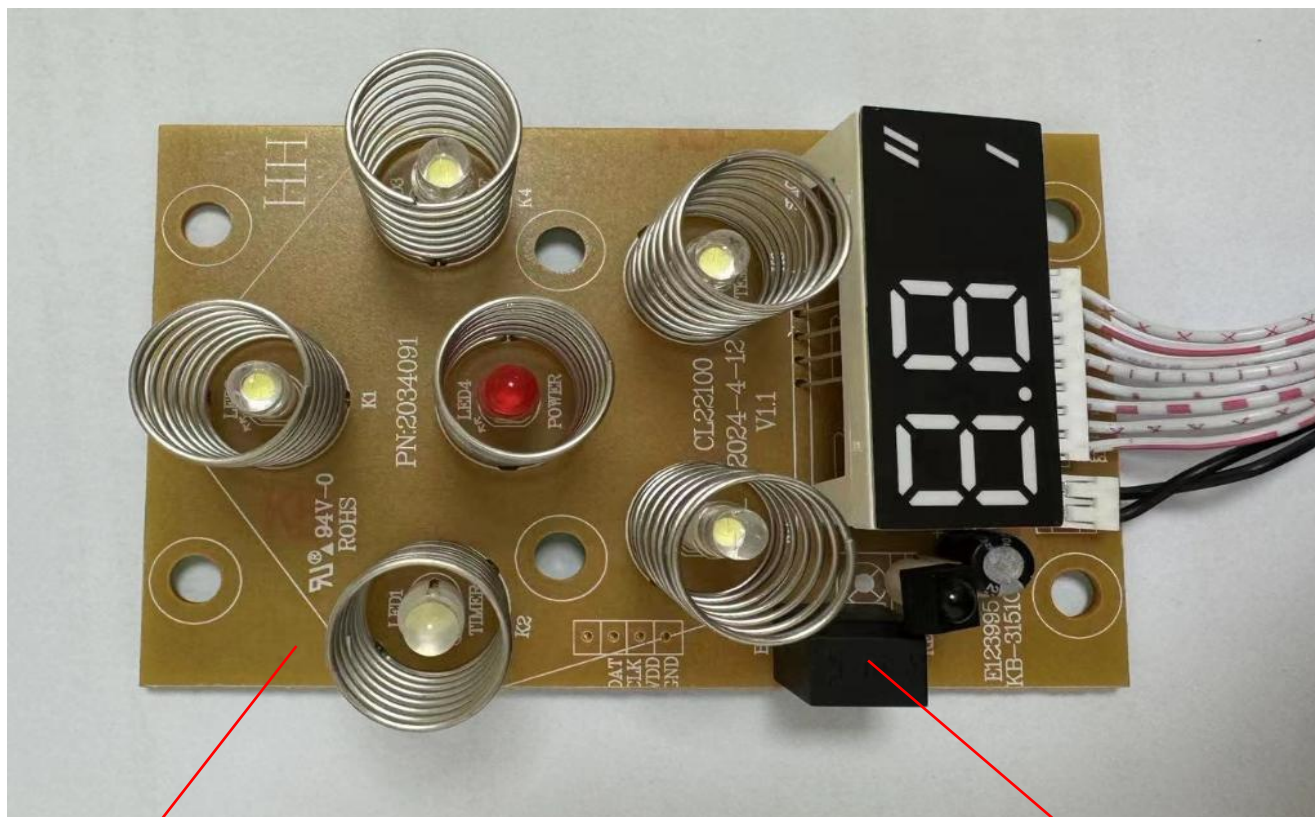


Photo 8 - Power Supply Board Topapex



3.0 Product Photographs

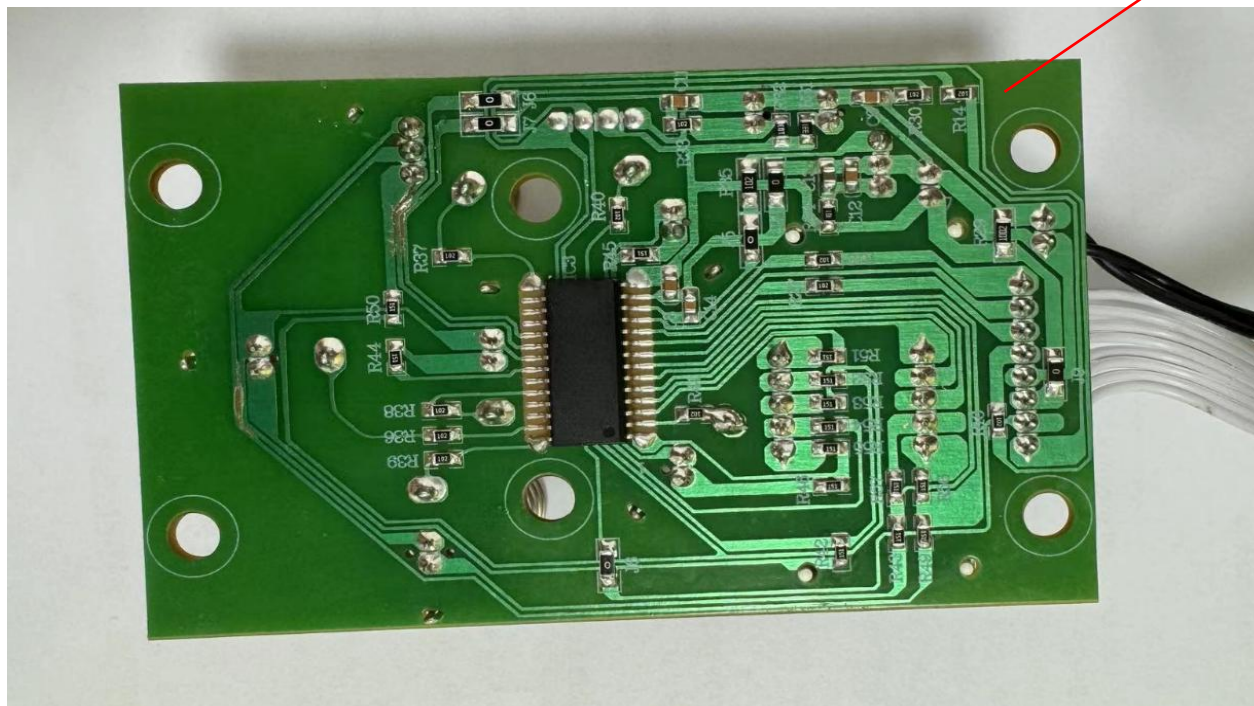
Photo 10 - Control Board Guandong Front



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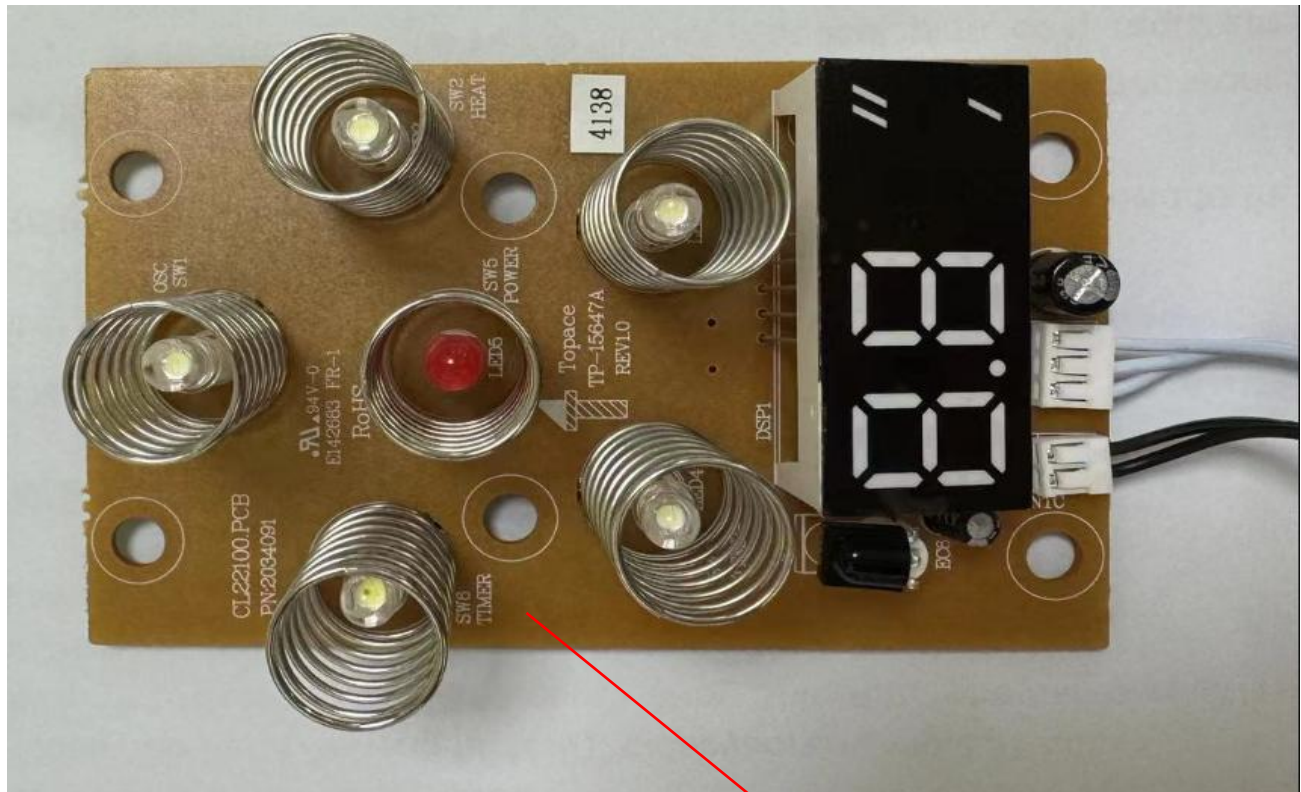
Photo 11 - Control Board Guandong Rear



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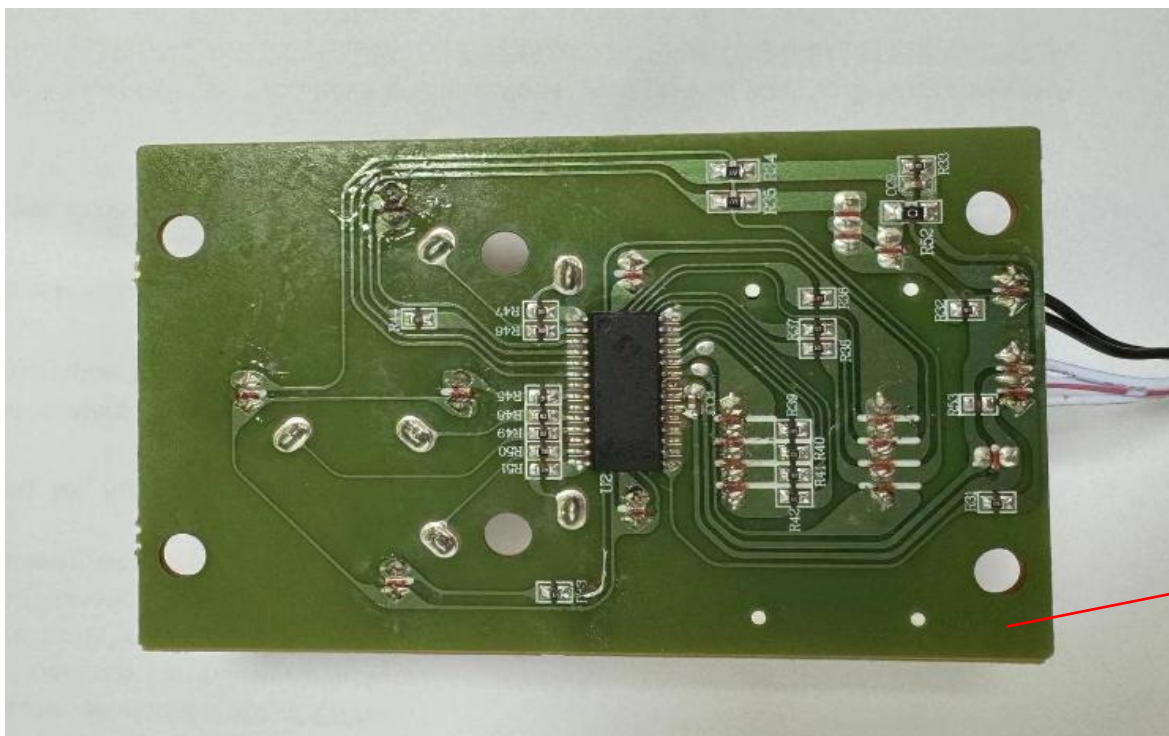
3.0 Product Photographs

Photo 12 - Control Board Topapex Front



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Photo 13 - Control Board Topapex Rear



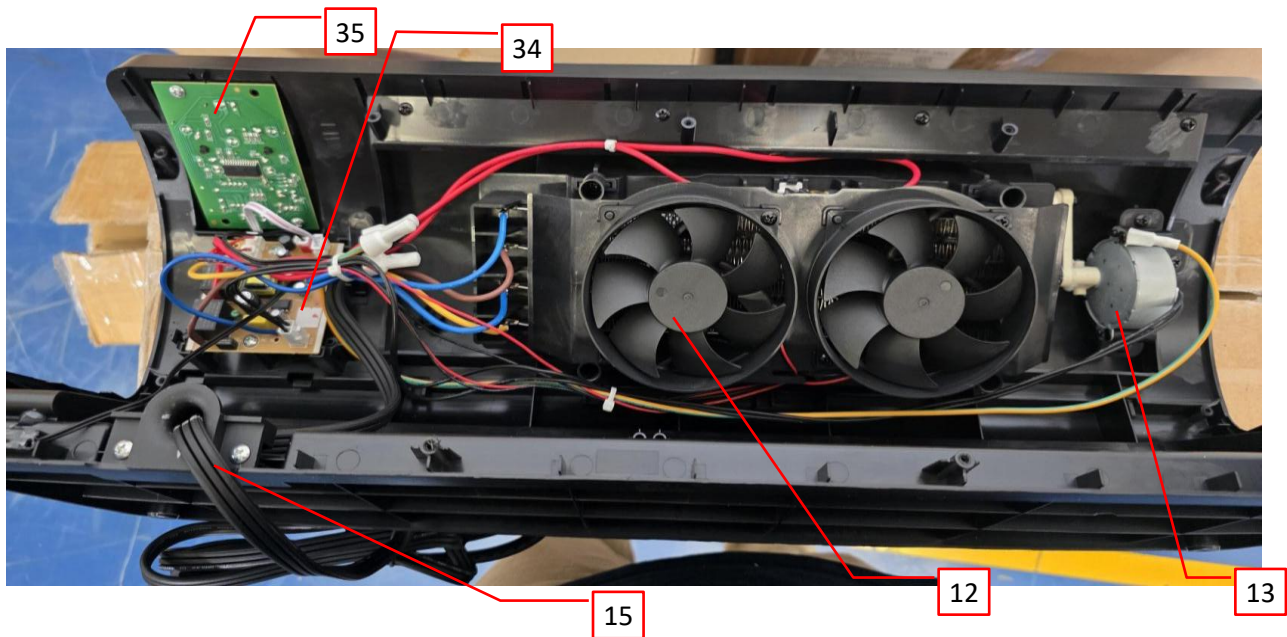
18

3.0 Product Photographs

Photo 14 - Remote



Photo 15 - Internal Overview of the 822100 electric heater



3.0 Product Photographs

Photo 16 - Top down view (Left) and Bottom up view (Right) of the Risheng 2033630 Power Supply Board

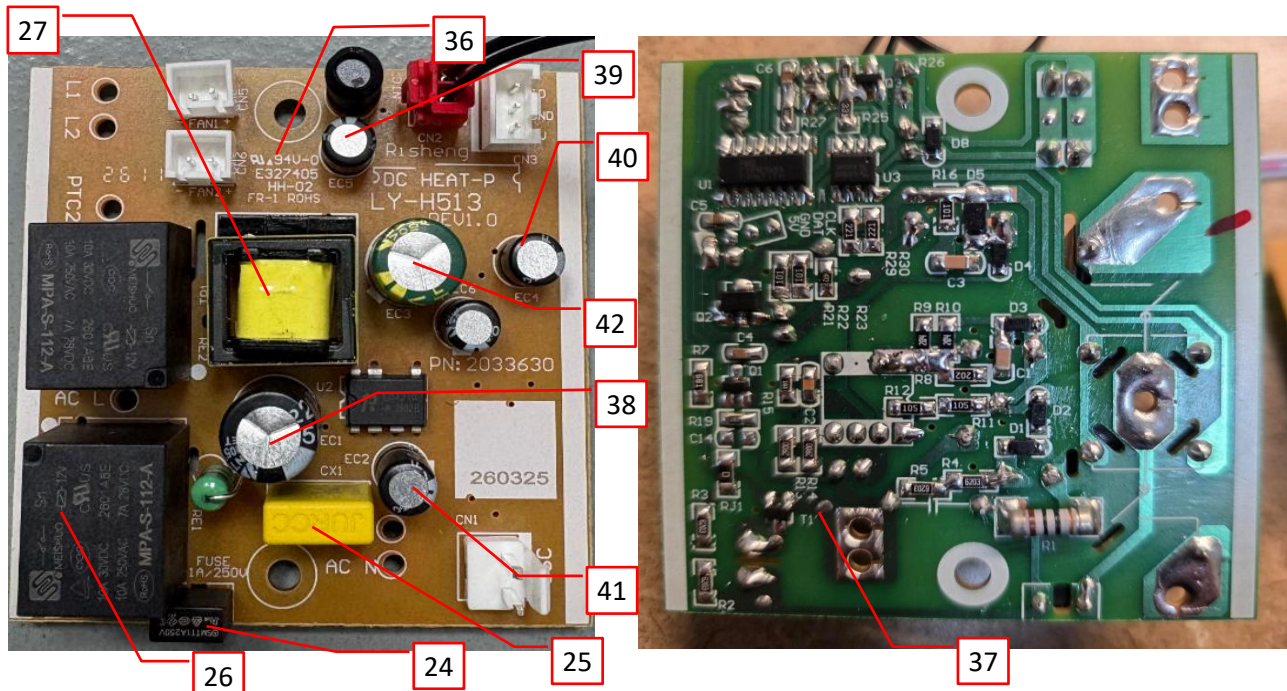
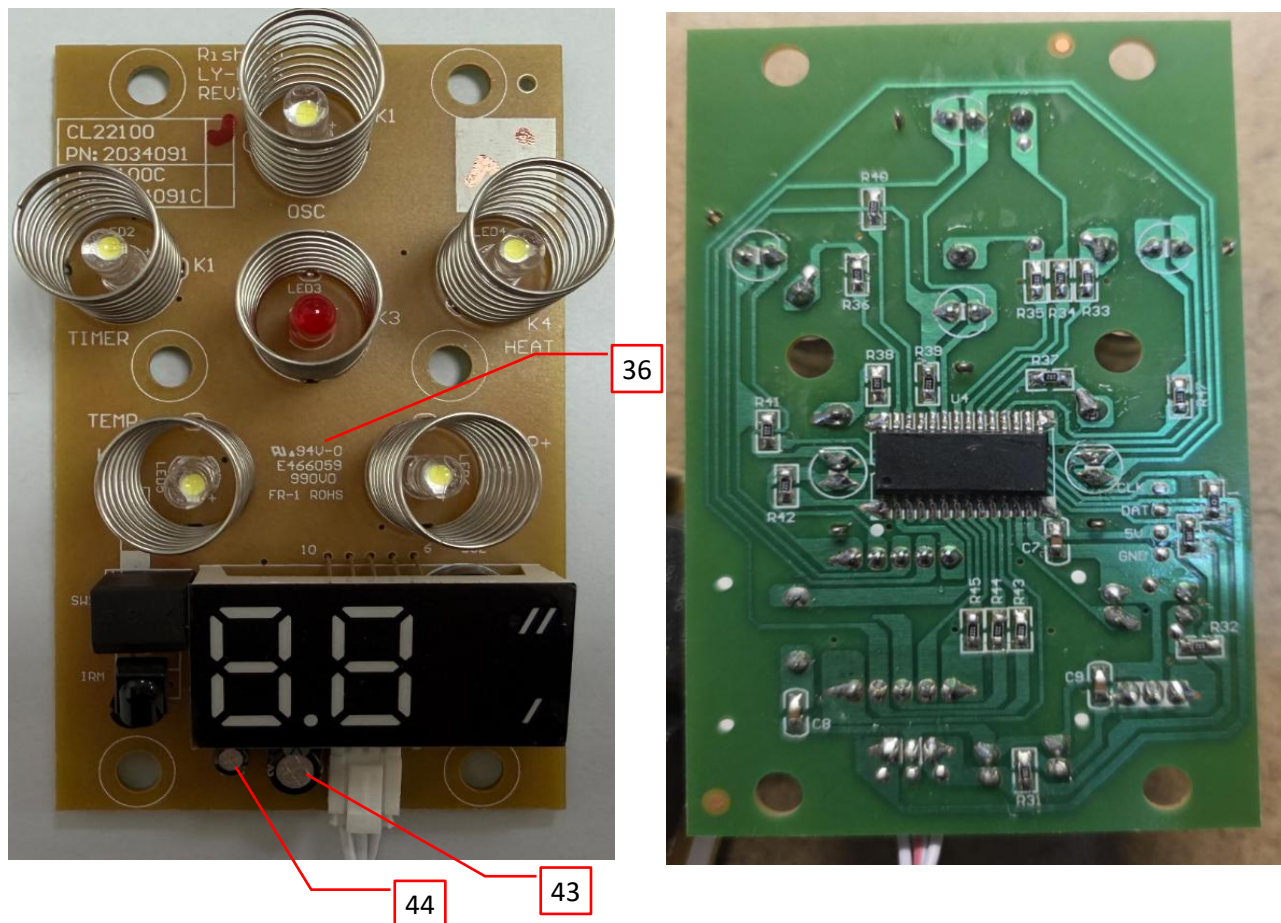


Photo 17 - Top down view (Left) and Bottom up view (Right) of the Risheng 2034091 Control Board



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	Front Body	LG Chem Huizhou Petrochemical Co Ltd.	AF312B	ABS, min 2.1mm thick, V-0, 5VB (All), rated 70°C Refer to Illustration 1 for specific use. (for CL22100, 822100 only)	cURus
			Lotte Chemical Corporation.	VH-0815(+)	ABS, min 2.0mm thick,V-0, 5VB (All), rated 85°C Refer to Illustration 1 for specific use. (for CL22100, 822100 only)	cURus
			Silver Age Engineering Plastics (DongGuan) Co Ltd. (E225348)	3370	ABS, min 2.0mm thick, V-0, 5VA, rated 85°C Refer to Illustration 1 for specific use. (for CL22100C only)	cURus
			LG Chem Ltd. (E67171)	AF365(&)	ABS, min 2.0mm thick, V-0, 5VA, rated 80°C Refer to Illustration 1 for specific use. (for CL22100C only)	cURus
1	2	Front Grill	Various	Various	Minimum Thickness: 0.7mm, Metal Type: Iron, Paint, Hole diameter: 2.3 mm, Dimensions:191 mm x 464 mm Secured to the front body by integral Tabs and slots.	NR
2	3	Filter Screen	Various	Various	Minimum Thickness: 1.0mm, Metal Type: Iron Hole diameter: 0.8 mm Dimensions: 257 mm x 105 mm Secured to the rear body by integral tabs and slots.	NR
2	4	Rear Body	LG Chem Huizhou Petrochemical Co Ltd.	AF312B	ABS, min 2.1mm thick, V-0, 5VB (All), rated 70°C Refer to Illustration 1 for specific use. (for CL22100, 822100 only)	cURus
			Lotte Chemical Corporation.	VH-0815(+)	ABS, min 2.0mm thick,V-0, 5VB (All), rated 85°C Refer to Illustration 1 for specific use. (for CL22100, 822100 only)	cURus
			Silver Age Engineering Plastics (DongGuan) Co Ltd. (E225348)	3370	ABS, min 2.0mm thick, V-0, 5VA, rated 85°C Refer to Illustration 1 for specific use. (for CL22100C only)	cURus
			LG Chem Ltd. (E67171)	AF365(&)	ABS, min 2.0mm thick, V-0, 5VA, rated 80°C Refer to Illustration 1 for specific use. (for CL22100C only)	cURus

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	5	Filter Door	LG Chem Huizhou Petrochemical Co Ltd.	AF312B	ABS, min 2.1mm thick, V-0, 5VB (All), rated 70°C Refer to Illustration 1 for specific use. (for CL22100, 822100 only)	cURus
			Lotte Chemical Corporation.	VH-0815(+)	ABS, min 2.0mm thick, V-0, 5VB (All), rated 85°C Refer to Illustration 1 for specific use. (for CL22100, 822100 only)	cURus
			Silver Age Engineering Plastics (DongGuan) Co Ltd. (E225348)	3370	ABS, min 2.0mm thick, V-0, 5VA, rated 85°C Refer to Illustration 1 for specific use. (for CL22100C only)	cURus
			LG Chem Ltd. (E67171)	AF365(&)	ABS, min 2.0mm thick, V-0, 5VA, rated 80°C Refer to Illustration 1 for specific use. (for CL22100C only)	cURus
3	6	Strain Relief	Polyrocks Chemical Co Ltd.	5000(f1)	PP, min 0.75mm thick, V-0 (All), rated 120°C Refer to Illustration 1 for specific use. (for CL22100, 822100 only)	cURus
				5005(+)	PP, min 1.5mm thick, V-0, 5VA, rated 65°C Refer to Illustration 1 for specific use. (for CL22100C only)	cURus
			Silver Age Engineering Plastics (Dongguan) Co Ltd.	433+	PP, min 0.75mm thick, V-0 (All), rated 110°C Refer to Illustration 1 for specific use. (for CL22100, 822100 only)	cURus
				430H	PP, min 2.0mm thick, V-0, 5VA, rated 65°C Refer to Illustration 1 for specific use. (for CL22100C only)	cURus
4	7	Louver Connector+Louver	Kingfa Sci & Tech Co Ltd.	PBT-RG301(r1)	PBT, min 1.5mm thick, V-0, rated 130°C Refer to Illustration 1 for specific use.(for CL22100, 822100 only)	cURus
					PBT, min 1.0mm thick, V-0, 5VA (All), rated 125°C Refer to Illustration 1 for specific use.(for CL22100C only)	cURus
			Nantong Orient Plastics Co Ltd.	3080 GF30	PBT, min 1.6mm thick, V-0, rated 130°C Refer to Illustration 1 for specific use.	cURus

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	8	Element Holder	Kingfa Sci & Tech Co Ltd.	PBT-RG301(r1)	PBT, min 1.5mm thick, V-0, rated 130°C (for CL22100, 822100 only) Refer to Illustration 1 for specific use.	cURus
					PBT, min 1.0mm thick, V-0, 5VA (All), rated 125°C (for CL22100C only) Refer to Illustration 1 for specific use.	cURus
			Nantong Orient Plastics Co Ltd.	3080 GF30	PBT, min 1.6mm thick, V-0, rated 130°C. Refer to Illustration 1 for specific use.	cURus
4	9	Louver Driver+Link+Cam	Super-Dragon Engineering Plastics Co Ltd.	PA66FG430 (b)	Nylon, min 0.75mm thick, V-0, rated 120°C	cURus
			Kingfa Sci & Tech	PA66-RG301 (##) (f1)	Nylon, min 0.75mm thick, V-0, rated 115°C. (##) – Replaced by ten digits maximum by a combination of letters and/or numbers as color code	cURus
4	10	Manual Reset TCO	Auone Electronic Mfg Ltd.	AUT-75	75°C, 125V	cURus
			Foshan Eagle Technology Co Ltd.	AMT-P2-75	75 °C, 125V	cURus
4	11	Element	Dongguan Longyang Electronic Technology Co Ltd.	LYB-120-1500	120V, 1500W, Ceramic	cURus
			Dongguan City LongKey Electronic Co Ltd.	RFB-120-1500	120V, 1500W, Ceramic	cURus
			KAI YI ELECTRIC HEATING(M) SDN. BND.	LYB-120-1500	120V, 1500W, Ceramic	cURus

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3, 15	12	DC Fan	Shenzhen Haozhi Technology Co Ltd	FD9025SH	DC 12V 0.25A	cURus
			Shenzhen Yongyihao Electronic Co.,Ltd	YY9225L12S	DC 12V 0.20A	cURus
5, 15	13	Oscillation Motor	Foshan Shunde Hengxing Micro Motor Co Ltd.	TYJ50-8A	120V, 60Hz, 4W, 3RPM	cURus
			Minzhua Electric Co Ltd	50TYZ-0.2B02	120V, 60Hz, 4W, 3RPM	cURus
			Jiangmen Dongrun Mechinery And Electrical Co Ltd	TY50J	120V, 60Hz, 4W, 3RPM	cURus
1	14	Lens	Silver Age Engineering Plastics (Dongguan) Co Ltd.	230	PC, min 0.8mm thick,V-0 (NC, RD), rated 80°C (for CL22100, 822100 only)	cURus
				2340	PC, min 2.1mm thick, V-0, 5VA, rated 80°C (for CL22100C only)	cURus
			LG Chem Ltd.	GN-1006FM	PC, min 2.5mm thick,V-0 (All), rated 110°C (for CL22100, 822100 only)	cURus
1, 15	15	Cordset	UNIRISE ELECTRIC WIRE & CABLE CO LTD	UE-221	1-15P, 16AWG/2C, HPN-R, 125VAC, 15A, 6-8 ft	cULus
			Various	HPN-R	1-15P, 16AWG/2C, HPN-R, 125VAC, 15A, 6-8 ft	cETLus or cULus
			Various	HPN-R	5-15P, 16AWG/3C, HPN-R, 125VAC (min), 15A (min), 6-8 ft (822100)	cULus

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
6,8	16	Power Supply Board	Guandong High Honor Electronic Science and Technology co.,ltd	2034090	120V, 60Hz (for CL22100, 822100 only)	NR
			Topapex Technology Co Ltd.			
10, 12	17	Control Board	Topapex Technology Co Ltd.	2034091; may be followed by C	120V, 60Hz	NR
			Guandong High Honor Electronic Science and Technology co.,ltd			
7, 11, 13	18	PCB Board Material	FENGSHUN JUNDA ELECTRONIC CO LTD	JD-V	Minimum Thickness: 0.11mm, 130°C, V-0	UR
			DONGGUAN HUATUO ELECTRONIC CO LTD	YK-02	Minimum Thickness: 0.20mm, 130°C, V-0	cURus
			Foshan Shunde Aochuang Electrical Appliance Co Ltd	AC-S	Minimum Thickness:0.18mm, 130°C, V-0,	UR
			YEE KING INTERNATIONAL SOURCING LTD	YK2	Minimum Thickness:0.36mm, 130°C, V-0,	UR
			Various	Various	Minimum Thickness: 0.11mm, 130°C, V-0	UR
14	19	Remote Enclosure	LG Chem Huizhou Petrochemical Co Ltd.	HP181	ABS, Rated HB, 60°C, 1.6mm minimum thickness, all colors. Uses AAA batteries.	cURus
			Ningbo LG Yongxing Chemical Co Ltd.	HI-121H	ABS, min.1.5mm thick,HB, rated 80°C Uses AAA batteries.	cURus

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
3,4, 5	20	Internal Wire	Various	1007	24AWG, 300V, 80°C, VW-1, For connections to the motor	UR
				2468		
				1015	22-24AWG, 600V, 105°C For connections with Oscillation Motor	cURus
					20AWG, 600V, 105°C For connections to the PCB	
					16AWG, 600V, 105°CFor all connections to the Heating element	
6	21	Wire	2468	KELIN WIRE CO LTD (DONGGUAN)	26AWG, L=100mm, 80°C, 300 V, VW-1	cURus
				GUANGDONG YONGROI CABLE TECHNOLOGY CO.,LTD.		cURus
				ZHONGSHAN CITY BOYU WIRE CO.,LTD		cURus
				SHANGHAI RISHUN ELECTRONIC EQUIPMENTS CO LTD		cURus
				DONGGUAN WORLDFUL ELECTRIC WIRE		cURus
				ZHONGSHAN DONGFENG KESHIRUIHUA WIRE&CABLE FACTORY		cURus
				GUANGDONG FUYUANTONG CABLE TECHNOLOGY CO LTD		cURus
				GUANGDONGZ HOUSHISHENL ONGWIRE MANUFACTUR E CO LTD		cURus
				Various		cURus

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
				ZELONGKANG Electronic Co. Ltd.	26AWG, L=400mm, 80°C, 300 V, VW-1	cURus
				XIEHE Electronic Co. Ltd		cURus
				DONGGUAN RIZHAN HIGH TEMPERATURE WIRE CO LTD		cURus
				DONGGUAN BOLI ELECTRONIC CO LTD		cURus
				Various		cURus
3	22	Closed End Connector	Heavy Power Co.Ltd	CE2	V-0, 300V, 105°C	UL
				CE2X	V-0, 300V, 105°C	UL
				CE5	V-0, 300V, 105°C	UL
				CE5X	V-0, 300V, 105°C	UL
4	23	Heat Shrinkable Sleeve	Dongguan Salipt Co Ltd	SALIPT S-901-600	125°C, 600V	cURus
6,8,16	24	Fuse	SHENZHEN LANSON ELECTRONICS CO LTD	SMT	250VAC, 1A	cURus
			Dongguan Better Electronics Technology Co.,Ltd.	932	250VAC, 1A	cURus
			XC Electronics (Shenzhen) CorpLtd	5TE	250VAC, 1A	cULus

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
6,8, 16	25	X2 Capacitor	Tenta Electric Industrial Co., Ltd.	Various	0.1uf , 275V, Operating Temperature: -40°C to 105°C	cURus
			Foshan Shunde Beijiao Hua Da Electric Industrial Co., Ltd..	Various	0.1uf , 275V, Operating Temperature: -40°C to 105°C	cURus
			GUANGDONG FENGMING ELECTRONIC TECH. CO., LTD.	Various	0.1uf , 275V, Operating Temperature: -40°C to 85°C	cURus
			SURETOP TECHNOLOGY CO LTD	MPX	275V, 0.1uf Operating Temperature: -40°C to 105°C	cURus
			SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	Various	275V, 0.1uf Operating Temperature: -40°C to 110°C	cURus
			Guangdong Jingang Electronic Technology Co Ltd	MKP	310V, 0.1uf Operating Temperature: -40°C to 110°C	cURus
			GUANGDONG JURCC ELECTRONICS CO; LTD.	Various	0.1μF, 275V, Operating Temp: -40°C to 105°C	cURus
6,8, 16	26	Relay	GH-1A-12L	SHENZHEN GOLDEN ELECTRICAL APPLIANCE CO LTD	12A / 250V, 10A / 250V, 15A / 125V, TV-5/120V	cURus
			SRD-S-112DM	SANYOU CORPORATION LIMITED	12A / 250V, 10A / 250V, 15A / 125V, TV-5/120V	cURus
			MPA-S-112-A	ZHEJIANG MEISHUO ELECTRIC TECHNOLOGY CO LTD	12A / 250V, 10A / 250V, 15A / 125V, TV-5/120V	cURus
			GK3FF-12VDC-S-A	Zhongshan Xiaolan Town Guoke Relay Factory	12A / 250V, 10A / 277V, 15A / 125V, TV-5/120V	cURus

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
6,8, 16	27	Transformer	Guang Dong GuoCi Electronics Limited	EE16-12V1A	12V 1A	See 5.0
			Huizhou Gaoxinyuan Electronics Co.,Ltd	EE16-12V1A	12V 1A	See 5.0
8, 10	28	Photoelectric Tip Over Switch	BAI LING ELECTRONICS CO.,LTD.	BL-3030-45	DC5V.4-20mA	NR
				BL-1250-45	DC5V.4-20mA	NR
			Various	Various	DC5V.4-20mA	NR
			Various	Various	DC5V.4-20mA	NR
3	29	NTC	SHEN ZHEN AMPRON TECHNOLOGY CO.,LTD	Various	R=10KΩ±1% B=3950±1% MF5A	NR
			ANHUI EAGLE ELECTRON FACTORY	Various		NR
			Yixing Gege Er Electronics Factory	Various	R=10K±2%/B=3950±1%	NR
			SHEN ZHEN AMPRON TECHNOLOGY CO.,LTD	Various		NR
			SHENZHEN XINGBA TECHNOLGYCO.,LTD	Various		NR

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
6,8	30	Aluminum Electrolytic Capacitor	DongGuan ChuangHui Electronics Factory	Various	400V, 22uF	NR
			Shenzhen Hync Electronic Co., Ltd	Various	400V, 22uF	NR
			Foshan Tairong Electronics Co., Ltd	Various	400V, 22uF	NR
			JIANGXI JIAWEICHENG ELECTRONIC TECHNOLOGY Co., Ltd	Various	400V, 22uF	NR
			KANG CHENG DA ELECTRONIC CO.,LTD	Various	250V, 22uf	NR
			Suqian Huahong Electronic Industrial Co,Ltd	Various	250V, 22uf	NR
			Guangdong Ketuo Electronic Components	Various	250V, 22uf	NR
3,4	31	Zip Tie	Dongguan Gino Plastic Products Co Ltd.	Various	V-0	cURus
			Shengteng Platies Mfg Co Ltd.	Various	V-0	UR

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	32	Label (Not Shown)	Zhongshan Fuzhou Adhesive Product Co Ltd.	TL-TA25	125°C, Adhesive	UR
				TL-SM25		UR
1	33	Cord Tag	Lasko	Tyvek L 1057D	Label with adhesive, DRAGON-FC Ink imprinted on top of base material. Rated for use HPN-R cord 16AWG or larger. If the component does not bear the mark of conformity , refer to ETL report 100775497CRT-001 to inspect this component.	ETLus Recognized
15	34	Power Board	Risheng Electrical Appliances Co. Ltd.	2033630	Input: 120VAC Made from components 24, 25, 26, 27, 35-42	NR
15	35	Control Board	Risheng Electrical Appliances Co. Ltd.	2034091; may be followed by C	Input: 24VDC Made from components 36, 28, 43, 44	NR
16, 17	36	PCB	SHYE FENG (DONGGUAN) CO LTD	990V0	Min thickness: 1.6mm UL94 flame rating: V-0 UL796 DSR-ALL: Yes Max temperature: 130°C	cURus
			HUNG HING ELECTRONICS CO LTD	HH-02		
			HUA XING CIRCUIT BOARO(HK)LTD	BS-03		
			Various	Various		
16	37	Triac (T1)	BRIGHT HORIZON TECHNOLOGY CORP	97A8	Type: 97A8 Max voltage: 600V Max current: 0.8A Max operating temperature: 125°C	NR
16	38	Capacitor (EC1)	DongGuan ChuangHui Electronics Co., Ltd.	Electrolytic	Type: Al Electrolytic Capacity: 22µF Max operating voltage: 250V Max operating temperature:105°C	NR
			GUANGDONG JURCC ELECTRONICS CO; LTD.	Electrolytic		
16	39	Capacitor (EC5, EC6)	DongGuan ChuangHui Electronics Co., Ltd.	Electrolytic	Type: Al Electrolytic Capacity: 100µF Max operating voltage: 25V Max operating temperature: 105°C	NR
			GUANGDONG JURCC ELECTRONICS CO; LTD.	Electrolytic		

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
16	40	Capacitor (EC4)	DongGuan ChuangHui Electronics Co., Ltd.	Electrolytic	Type: Al Electrolytic Capacity: 220µF Max operating voltage: 16V Max operating temperature: 105°C	NR
			GUANGDONG JURCC ELECTRONICS CO; LTD.	Electrolytic		
16	41	Capacitor (EC2)	DongGuan ChuangHui Electronics Co., Ltd.	Electrolytic	Type: Al Electrolytic Capacity: 47µF Max operating voltage: 50V Max operating temperature: 105°C	NR
			GUANGDONG JURCC ELECTRONICS CO; LTD.	Electrolytic		
16	42	Capacitor (EC3)	DongGuan ChuangHui Electronics Co., Ltd.	Electrolytic	Type: Al Electrolytic Capacity: 470µF Max operating voltage: 25V Max operating temperature: 105°C	NR
			GUANGDONG JURCC ELECTRONICS CO; LTD.	Electrolytic		
17	43	Capacitor (EC8)	DongGuan ChuangHui Electronics Co., Ltd.	Electrolytic	Type: Al Electrolytic Capacity: 47µF Max operating voltage: 16V Max operating temperature: 105°C	NR
			GUANGDONG JURCC ELECTRONICS CO; LTD.	Electrolytic		
17	44	Capacitor (EC7)	DongGuan ChuangHui Electronics Co., Ltd.	Electrolytic	Type: Al Electrolytic Capacity: 220µF Max operating voltage: 16V Max operating temperature: 105°C	NR
			GUANGDONG JURCC ELECTRONICS CO; LTD.	Electrolytic		
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
6,8, 16	27	Transformer	Guang Dong GuoCi Electronics Limited	EE16-12V1A
Electrical Rating: 12V 1A				Insulation class A
Component Standard used: UL 5085-1, UL 5085-3				

MATERIALS LIST (refer to illustration 4 for assembly drawing)

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Bobbin	CHANG CHUN PLASTICS CO.,LTD (HSINCHU FACTORY)	T375J	V-0, 150°C
Triple Insulating Wire	SHEN ZHEN DARUN SCIENCE AND TECHNOLOGY CO LTD	DRTIW-B	130°C
Wire	DONGGUAN YIDA INDUSTRIAL CO.,LTD	QA-1/2UEW	130°C
Varnish	ZHUHAI CHANGXIAN CHEMICAL TECHNOLOGY CO.,LTD	E962	130°C

WINDING(S) RESISTANCE

Winding Designation	Wire Size (mm ²)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Primary	0.17	2UEW	100	--	--	1.96
Secondary	0.4	DRTIW-B	14	--	--	0.066

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	1240V	60s
	Primary to secondary	1240V	60s
	Secondary to core	500V	60s

5.0 Critical Unlisted CEC Components						
INSULATED COIL						
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model		
6,8, 16	27	Transformer	Huizhou Gaoxinyuan Electronics Co.,Ltd	EE16-12V1A		
Electrical Rating: Input 120V, Output: 12V				Insulation class A		
Component Standard used: UL 5085-1, CSA C22.2#66.1, UL 5085-3, CSA C22.2#66.3						
MATERIALS LIST (refer to illustration 8 for assembly drawing)						
Component	Manufacturer	Type/model	Dimensions/thickness/assembly information			
Bobbin	CHANG CHUN PLASTICS CO., LTD (HSINCHU FACTORY)	T375J (G5) (G6) (E59481)	Rated V-0, 150 °C, min thickness 0.75mm. HWI 1, HAI 0.			
Triple insulating wire	Huizhou Huaying Electronic Technology Co Ltd	MIW-B (E470559)	Insulation Type: Reinforced TIW: 34-18 AWG Temp Class: 130(B). Used for secondary winding			
Wire	Huizhou Chengwei Intelligent Technology Co., Ltd	(x) UEW-F-(&)-(*) 155 (E227475)	ANSI Type: MW79-C Temp Class: 155 Base Coat: Polyurethane Used for primary winding			
Core	HAINING ZHONGXIN ELECTRONICS CO., LTD	ZP44	Ferrous material			
Tube	DONGGUAN LING FREE HARDWARE PLASTICS PRODUCT CO LTD	LING FREE PTFE (E352366)	Rated 600V, VW-1, 200 °C			
Tape	CHANGSHU LIANGYI ADHESIVE TAPE INDUSTRY CO., LTD.	LY-02 (E246820)	Rated 130 °C, thermoplastic			
Bar	DONGGUAN THOUSAND IS LAND METAL FOIL CO LTD	Sn99. 7Cu0.3	Solder			
Varnish	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO., LTD.	T-4260 (E228349)	Twisted pair thermal class: 130 °C min			
WINDING(S) RESISTANCE						
Winding Designation	Wire Size (mm ²)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
N1 (3-1)	0.15	2UEW	142	-	-	3.46
N2 (9-6)	0.45	MIW-B	20	-	-	0.070

5.0 Critical Unlisted CEC Components			
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	1240V	60sec
	Primary to secondary	2500V	60sec
	Secondary to core	500V	60sec

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 constructed with no openings other than those specifically described in Sections 4.
5. Grounding - This product is not provided with a means of grounding as it is provided with a polarized plug.
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 - Schematics - Refer to Illustrations 2, 3, and 6 for schematics requiring verification during Field Representative Inspection Audits.
9. Markings - The product is marked on a labeling system as described in item no. 33 of Section 4.0 as follows:
Applicant's name, Brand name;
model number;
date of manufacturer;
electrical ratings

6.0 Critical Features

10. Cautionary Markings - The following are required:

Caution label must be visible from a point 5 feet (1.5 m) above the floor and between 1 and 4 feet away from the front surface of the heater. 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.

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

Temporarily affixed and readily visible on the heater (Heading 1/4in. minimum, Body Text 1/8 in. minimum): Warning Signal not less than 0.5in and "WARNING - Risk of Heat Stroke (Hyperthermia) 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!"

RESET INSTRUCTIONS

If the unit shuts down:

- 1) Unplug unit, wait 5-10 minutes
- 2) Plug in and turn ON

Any Questions call 1-800-233-0268

Cord Tag markings, the cord tag must be located within 6 inches from the attachment plug:

WARNING - TO REDUCE THE RISK OF FIRE AND HYPERTHERMIA" and "DO NOT REMOVE THIS TAG!"

- 1) Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip).
- 2) Check your heater cord and plug connections. A loose fitting outlet can cause the plug to overheat or cause a fire. Be sure plug fits tight in the outlet. Check frequently during use to make sure plug and outlet are not hot. If so, discontinue using heater and have outlet replaced by a qualified electrician. Note: Heaters draw more current than small appliances, overheating of the outlet may occur even if it has not occurred with the other appliances.
- 3) Always unplug heater when not in use.
- 4) Do not operate heater with a damaged cord or plug or after the heater malfunctions, has been dropped or damaged in any manner. Discard heater.
- 5) Do not run under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.
- 6) Hyperthermia can result in death. Use caution when operating the heater to avoid overheating that can occur in infants, or individuals with reduced physical, sensory, or mental capabilities.

DO NOT REMOVE THIS TAG!

[Signal word: Bold, 3.56mm in height

Body text: 1.60mm in height

"Do not remove this tag": Bold, 2.03mm in height]

11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustrations 5 for details. Rev.New 5/24 CL22100ES, and refer to Illustrations 7a through 7d for detail regarding the 822100.

6.0 Critical Features

12. Logo Dependent Marking - The required marking is dependent on the specific ETL logo applied to the product as authorized by the Authorization to Mark. In addition to the required marking of items 9, 10 and 12 above, all products bearing the cETLus or cETL logo must also be marked in letters no less than 1.6 mm high with:

"AVERTISSEMENT - POUR RÉDUIRE LE RISQUE D'INCENDIE:

Toujours brancher les chauffeuses directement dans une prise de courant /

1. un réceptacle mural. Ne jamais utiliser avec un cordon d'extension ou avec une barre d'alimentation amovible (prise de courant / barre d'alimentation).

2. Vérifiez le cordon d'alimentation de votre chauffeuse ainsi que les connexions de la fiche. Une connexion à une prise de courant dont l'ajustement est lâche peut causer la surchauffe de la fiche et/ou causer un incendie. Assurez-vous que la fiche s'ajuste solidement dans la prise de courant. Vérifiez fréquemment durant l'utilisation pour vous assurer que la fiche et la prise de courant ne sont pas chaudes. Si l'une ou l'autre est chaude, cessez d'utiliser la chauffeuse et faites remplacer la prise de courant par un électricien qualifié.

Remarque : Les chauffeuses consomment plus de courant qu'un petit électroménager, la surchauffe de la prise peut survenir même si cela n'est pas survenu avec d'autres appareils.

3. Toujours débrancher la chauffeuse lorsqu'elle n'est pas utilisée.

4. Ne pas opérer chauffeuse avec une fiche ou un cordon endommagé ou après une défaillance de la chauffeuse, après qu'elle ait fait une chute ou qu'elle ait été endommagée de quelque manière. Jeter la chauffeuse.

5. Ne pas faire courir le cordon d'alimentation sous les tapis. Ne pas recouvrir le cordon d'alimentation avec des carpettes, des tapis d'escalier ou autres couvre planchers semblables. Ne pas faire courir le cordon d'alimentation sous des meubles ou des appareils. Placer le cordon d'alimentation éloigné de la région du trafic et là où on ne peut passer par-dessus.

6. L'hyperthermie peut entraîner la mort. Utiliser avec prudence lors du fonctionnement de la chauffeuse afin d'éviter une surchauffe qui pourrait se produire à proximité d'enfants en bas âge, ou de personnes avec des capacités physiques, sensorielles ou mentales réduites.

NE PAS ENLEVER CETTE ÉTIQUETTE !"

AVERTISSEMENT

"Spécifications nominales : 120 V c.a., 12,5 A, 60 Hz

Utiliser uniquement avec une prise de courant polarisée standard à 120 V c.a.

Elle est conçue pour usage au plancher ou sur une table. Toujours brancher les chauffeuses directement dans une prise de courant/un réceptacle mural. Ne jamais utiliser avec un cordon d'extension ou avec une barre d'alimentation amovible (prise multiple/barre d'alimentation). Cette chauffeuse est chaude lorsqu'elle est en service. Pour éviter des brûlures, ne pas laisser la peau nue entrer en contact avec des surfaces chaudes. Si comprises, utiliser les poignées lors du déplacement de cette chauffeuse. Garder tout matériau combustible, comme l'ameublement, coussins, literie, papier, vêtements et rideaux à au moins 0.9 mètre (3 pieds) de l'avant de la chauffeuse et éloignés des côtés et de l'arrière de la chauffeuse. Le produit ne doit pas être utilisé dans les salles de bain, salles de lavage ou autres emplacements similaires."

13. Production Control - Separate production lines for different models. There will be a quality check before production and before shipment to make sure the product complies with the listing report. The Quality checks will be performed for correspondence between Rating label logo and the specific differences, according to Illustration 1.

6.0 Critical Features

14. Carton Markings - The carton shall have the following markings that appear on one side except the bottom:

WARNING

Rated: 120 Volts AC, 12.5 AMPS, 60HZ

Use only with a standard polarized 120V AC outlet. (This line is Specific to the CL22100, CL22100C only)

Use only with a standard grounded polarized 120V AC outlet. (This line is Specific to the 822100 only)

It is intended for use on the floor or table. Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip). 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. The product is not to be used in bathrooms, laundry areas or other similar locations.

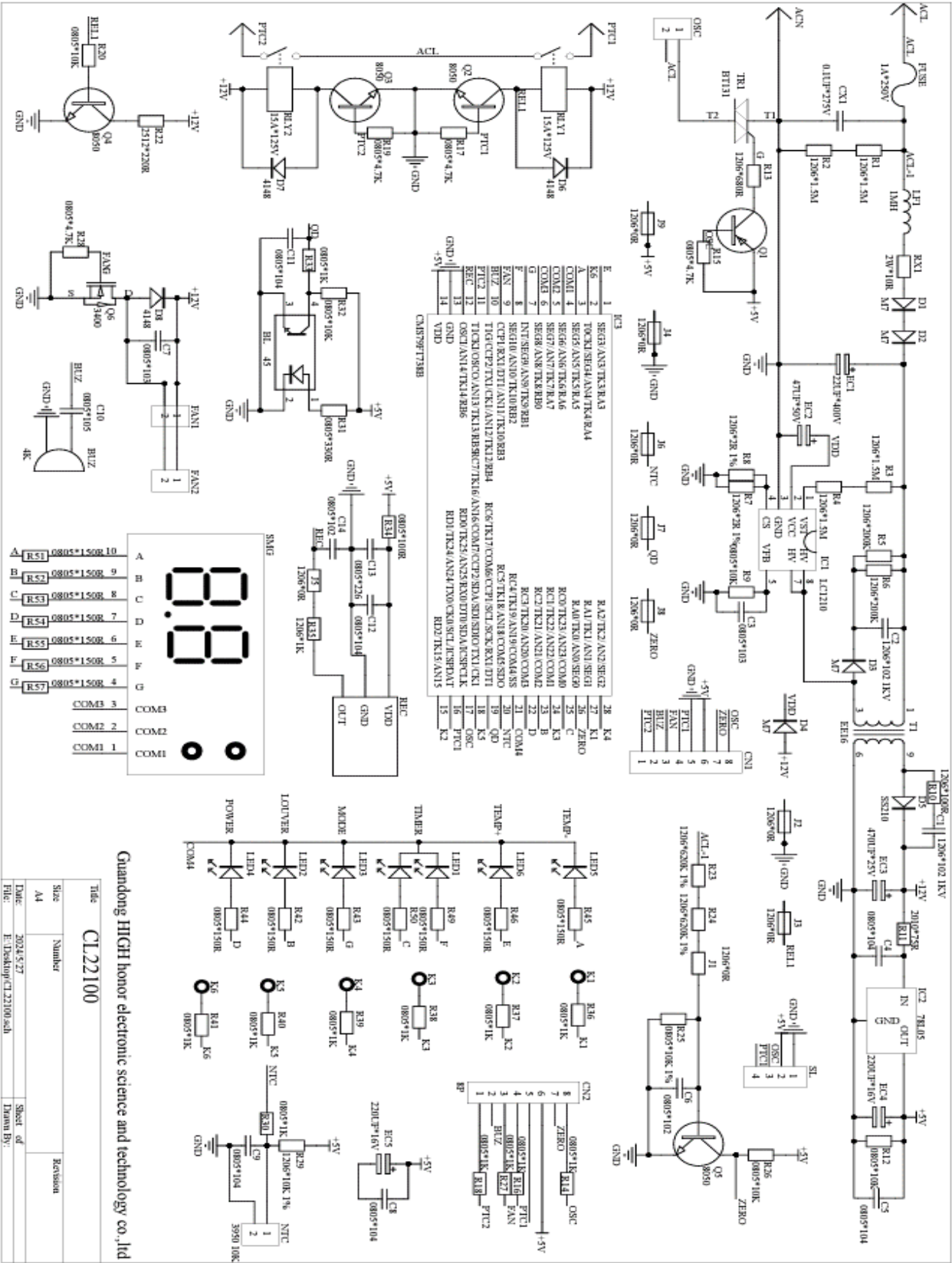
7.0 Illustrations

Illustration 1 - Table of version differences

Section	Item No.	Part/Model No.	Specific Difference	Logo Restriction
2	Ratings	--	120V, 60Hz, 1500W	ETLus only
2	Ratings	--	120V, 60Hz, 1500W @25°C	none
4	1	AF312B	rated V-0, 5VB	ETLus only
4	1	VH-0815(+)	rated V-0, 5VB	ETLus only
4	1	3370	rated V-0, 5VA	none
4	1	AF365(&)	rated V-0, 5VA	none
4	4	AF312B	rated V-0, 5VB	ETLus only
4	4	VH-0815(+)	rated V-0, 5VB	ETLus only
4	4	3370	rated V-0, 5VA	none
4	4	AF365(&)	rated V-0, 5VA	none
4	5	AF312B	rated V-0, 5VB	ETLus only
4	5	VH-0815(+)	rated V-0, 5VB	ETLus only
4	5	3370	rated V-0, 5VA	none
4	5	AF365(&)	rated V-0, 5VA	none
4	6	5000(f1)	rated V-0	ETLus only
4	6	5005(+)	rated V-0, 5VA	none
4	6	433+	rated V-0	ETLus only
4	6	430H	rated V-0, 5VA	none
4	7	PBT-RG301(r1)	rated V-0	ETLus only
4	7	PBT-RG301(r1)	rated V-0, 5VA	none
4	7	3080 G30	rated V-0	ETLus only
4	8	PBT-RG301(r1)	rated V-0	ETLus only
4	8	PBT-RG301(r1)	rated V-0, 5VA	none
4	8	3080 G30	rated V-0	ETLus only
4	14	230	rated V-0	ETLus only
4	14	2340	rated V-0, 5VA	none
4	14	GN-1006FM	rated V-0	ETLus only

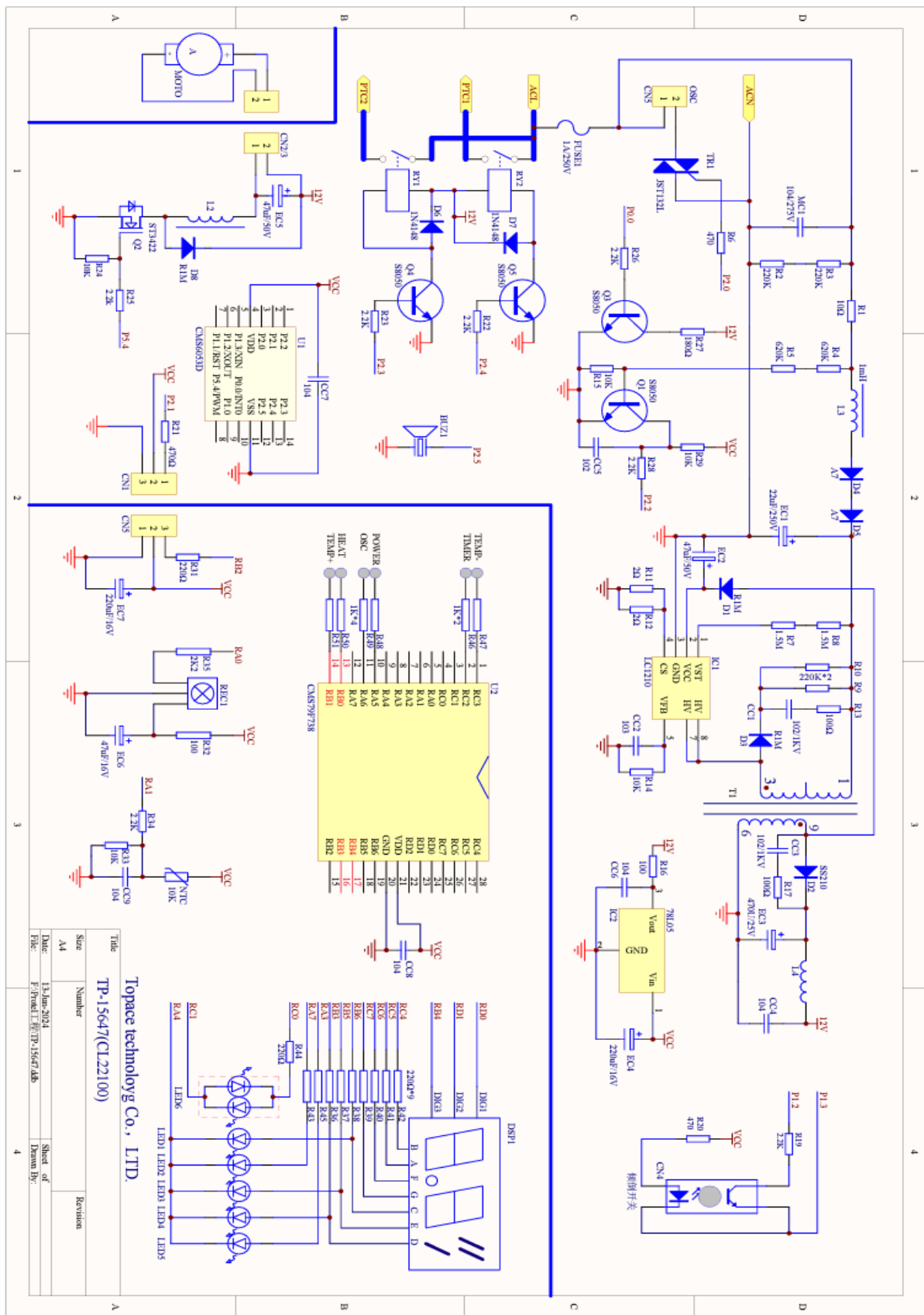
7.0 Illustrations

Illustration 2 - Guandong High Honor Electrical Schematic (Verify Polarity L-N, and Capacitor EC1)



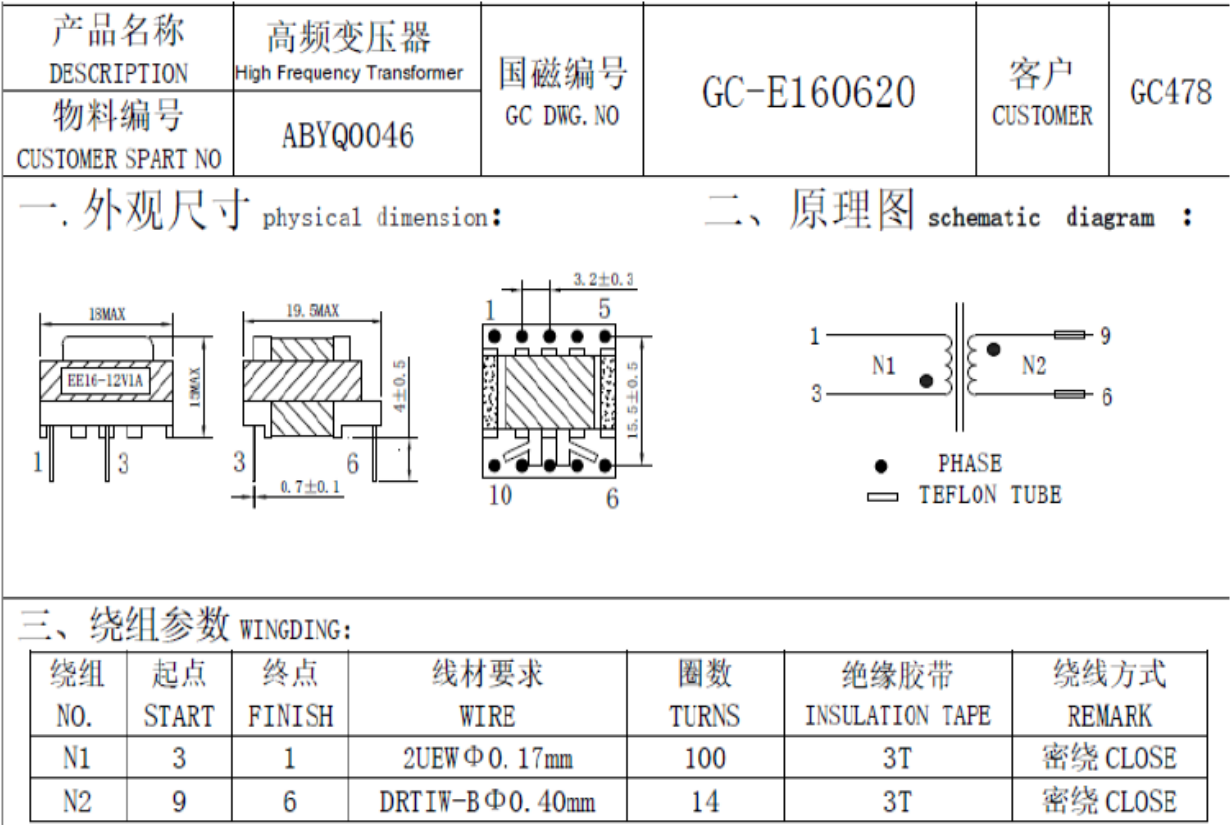
7.0 Illustrations

Illustration 3 - Topapex Technology Co., LTD (Verify Polarity L-N, and Capacitor EC1)



7.0 Illustrations

Illustration 4 - Transformer EE16-12V1A



7.0 Illustrations

Illustration 5 - Instruction Manual Rev.New 5/24 CL22100ES

Lasko®

Low Profile Heater Instruction Manual

Used for Model:
CL22100



Register Your Product Today
You will benefit from:
• Efficient and enhanced support
• Future product updates

Have a Question? Need a Part?

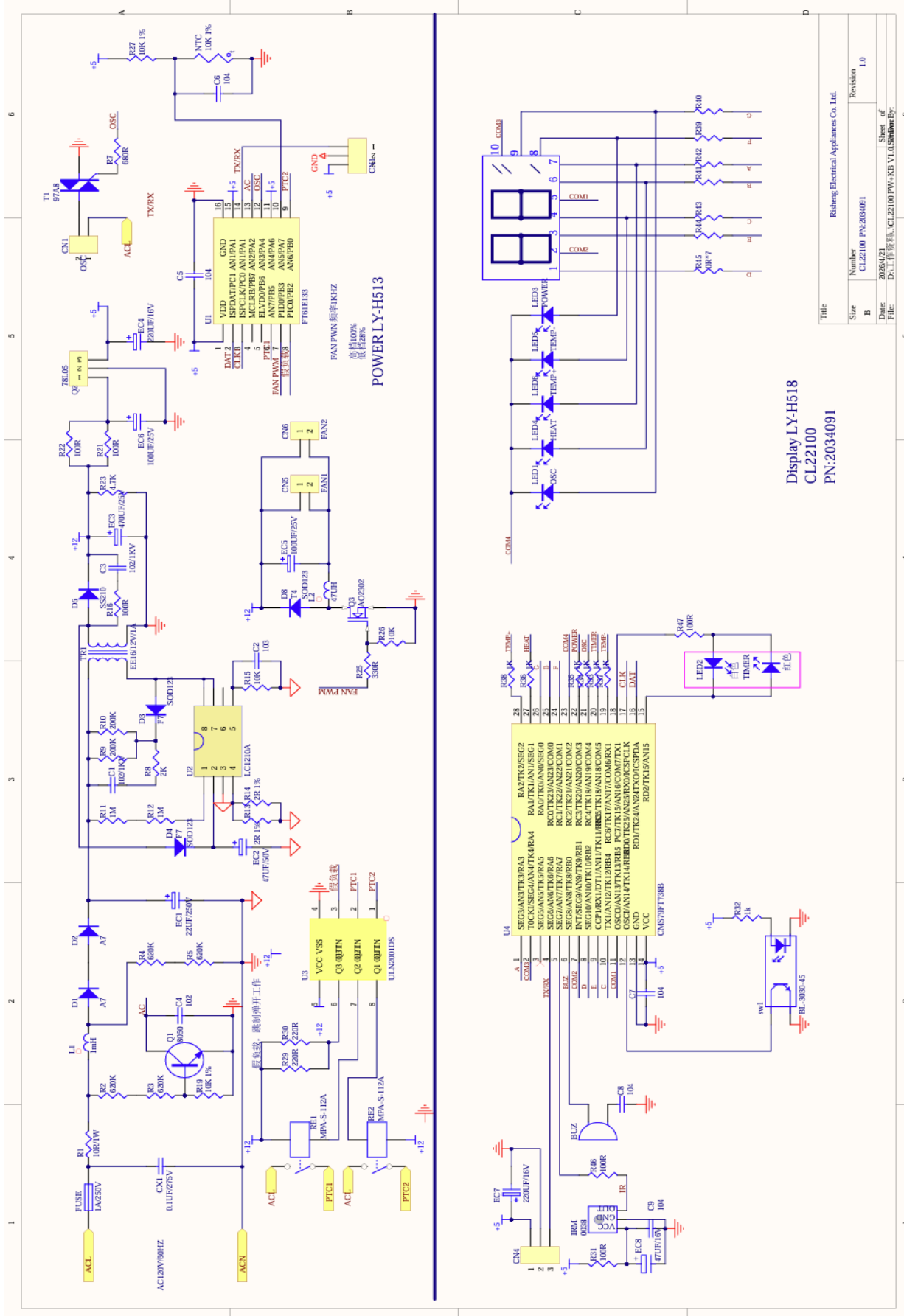
Please Do Not Return Product to Store!
Chat with us at www.lasko.com Monday-Friday 8am - 9pm EST
(Valid in U.S. and Canada only)

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 6 - Electrical schematic for the Risheng Power board



7.0 Illustrations

Illustration 7a - Instruction Manual for the 822100 electric heater (Page 1 of 4)

AirKing

**Low Profile Heater
Instruction Manual**

Used for Model:
822100



Register Your Product Today
You will benefit from:
• Efficient and enhanced support
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Have a Question? Need a Part?

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(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 7b - Instruction Manual for the 822100 electric heater (Page 2 of 4)



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:

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:



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.



The power cord is equipped with a three-prong grounded plug that must be inserted into a matching receptacle. Under no circumstances must the grounding prong be cut off the plug. Where a two-prong wall receptacle is encountered, it must be replaced with a properly grounded three-prong receptacle installed in accordance with the National Electrical Code (NEC) and all applicable local codes and ordinances. This work must be done only by a qualified electrician, using copper wire only.



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.

SAVE THESE INSTRUCTIONS

7.0 Illustrations

Illustration 7c - Instruction Manual for the 822100 electric heater (Page 3 of 4)

Parts Included

1



① **Body**

③ **Remote Control**

② **Filter Cover**

2



3



Clean Filter



1. Push Tabs in, then remove the **Filter Cover** from the back of the Heater.



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

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. Timer light turns red when activated.



Display Snooze Button- Press to turn your display ON or OFF (Remote control only)



*** 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 7d - Instruction Manual for the 822100 electric heater (Page 4 of 4)



WARNING

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

MAINTENANCE

- Always unplug the cord before moving, servicing or cleaning.
- Never place the heater in or near water.
- Clean the heater only with a vacuum equipped with a brush attachment; the vacuum will remove the lint and dirt from inside the heater.
- Vacuum intake grills every two weeks; this will help to maintain the optimum heater performance.
- 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.

TROUBLESHOOTING TIPS

If your heater fails to operate, see below for a list of solutions:

- Be sure the power cord is plugged into a working electrical outlet.
- Check your temperature setting. The heater may be off because it has reached the desired temperature setting.
- If your heater runs for several minutes and shuts off repeatedly, your heater may require cleaning. See maintenance section above.

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

LUBRICATION: Motor is permanently lubricated. No maintenance is required.

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

SAFETY FEATURE

- A Tip-Over switch is built in to prevent operation if the heater is tipped over.
- A thermal overload protector is built in to prevent overheating.
- 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:

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

*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 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 Airking 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.

AIRKING AMERICA, LLC LIMITED WARRANTY (VALID IN U.S. AND CANADA ONLY)

What this warranty covers: This product is warranted against defects in workmanship and/or materials.

How long this warranty lasts: This warranty extends only to the original purchaser of the product and lasts for three (3) years from the date of original purchase or until the original purchaser of the product sells or transfers the product, whichever first occurs.

What Airking will do: During the warranty period, Airking will, at its sole option, repair or replace any part or parts that prove to be defective or replace the whole product with the same or comparable model. For all warranty claims, the product must be returned to Airking Products, Inc. at customer's expense with proof of purchase within the warranty period. Contact the Airking customer service department to obtain a Return Authorization ("RA"). Do not return products without an RA or the warranty claim will not be processed.

What this warranty does not cover: This warranty does not apply if the product was damaged or failed because of accident, improper handling or operation, shipping damage, abuse, misuse, or unauthorized repairs made or attempted. This warranty does not cover shipping costs for the return of products to Airking for repair or replacement. Airking will pay return shipping charges from Airking following warranty repairs or replacement.

Any and all warranties, expressed or implied (including, without limitation, any implied warranty of merchantability), last three years from the date of original purchase or until the original purchaser of the product sells or transfers the product, whichever first occurs and in no event shall Airking's liability under any express or implied warranty include (i) incidental or consequential damages from any cause whatsoever, or (ii) replacement or repair of any house fuses, circuit breakers or receptacles. Notwithstanding anything to the contrary, in no event shall Airking's liability under any express or implied warranty exceed the purchase price of the product and any such liability shall terminate upon the expiration of the warranty period.

Some states and provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so these exclusions or limitations may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state and province to province.

Proof of purchase is required before a warranty claim will be accepted.

CUSTOMER SERVICE:

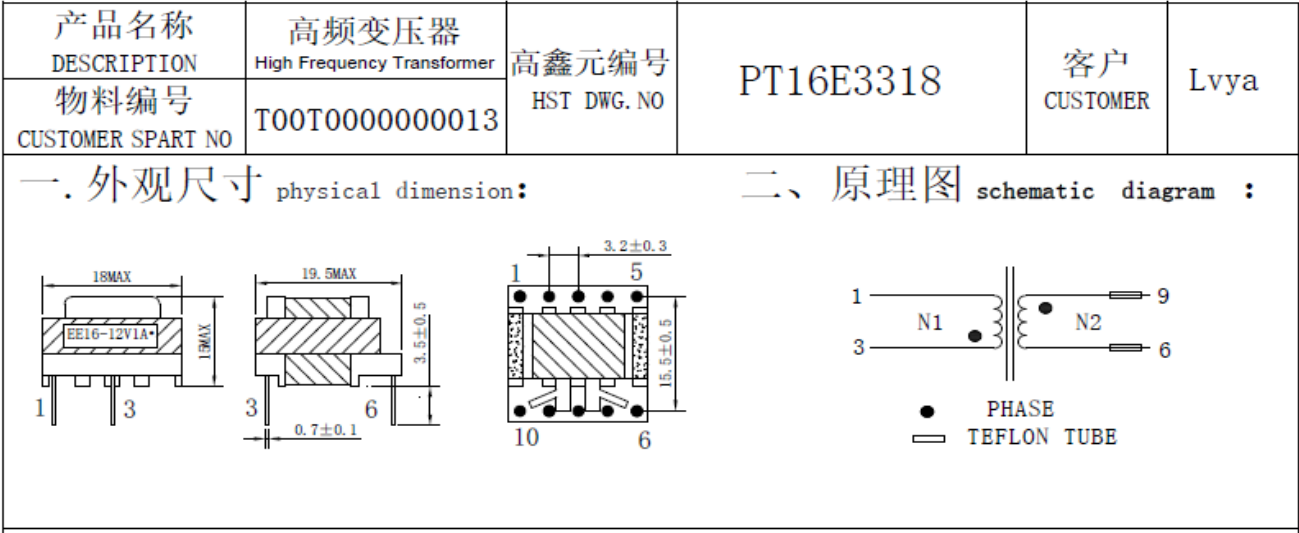
Email: producthelp@lasko.com. Web: www.lasko.com

Our Customer Service team is available to assist you with product service questions and replacement parts. Chat with us at www.lasko.com Monday-Friday 8am - 9pm EST (Valid in U.S. and Canada only). Please have your model number available, as well as the type and style (located on the underside of your product).

Customer Service Dept.,
820 Lincoln Ave., West Chester, PA 19380 (Please do not send product to this location)

7.0 Illustrations

Illustration 8 - Drawing for the Huizhou Gaoxinyuan Electronics Co.,Ltd EE16-12V1A Transformer



8.0 Test Summary

Evaluation Period	29-May-2025	Project No.	G106214906
Due to the previous testing performed under Intertek Report 105871066CRT-001 no additional testing was necessary.			

Evaluation Period	20-May-2026 through 1-Jun-20206			Project No.	G106577195
Sample Rec. Date	20-May-2026	Condition	Production	Sample ID.	1, 2
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.					
The following tests were performed:					
Test Description				ANSI/UL 1278 Clause:	CSA C22.2#46 Clause:
Strain Relief Test				59	7.8(a)
Push Back Strain Relief Test				16.13	7.8(b)
Mold Stress Relief Distortion Test				9.4	--
Strain Relief Test Following Mold Stress Relief Distortion				59	--
Normal Temepreature Test				40	--
Component Failure Test				47	--
Test Description				UL 1012 Clasue:	--
Output Short Circuit Test				54.2	--
Transformer Overload Test				54.7	--

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:	Cade Van Ornam	Reviewed by:	Russell Ransom
Title:	Project Engineer	Title:	Staff Engineer
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	Electric 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 NA Inc.
ETL Component Evaluation Center
1717 Arlingate Ln.
Columbus, Ohio 43228 USA
Attn: CEC Safety

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
Production-Line Tip Over

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.	1000V	60 s
	or	
	1200V	1 s

11.2 Production-Line Tip Over

Method

The manufacturer shall test each heater that employs a tip-over switch to determine that the switch functions as intended after assembly in the heater. The heater shall be energized during this test.

Product

All products covered by this Report.

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
24-Jun-2026	Cade Van Ornam	1	--	Added new manufacturer 2 "MAY QUALITY INDUSTRIES SDN. BHD."
		2	--	Changed brand names from "Lasko" to "Lasko, Air King"
			--	Changed the models From "CL22100, CL22100C" To "CL22100, CL22100C, 822100"
			--	Added the following line to the model similarity section "Model 822100 is the same as CL22100 except these models use a 3-wire supply cord and can use the Air King branding."
		3	8	Revised Photo 8 caption from "Power Supply Board Topace Front" To "Power Supply Board Topapex"
			9	Revised Photo 9 caption from "Power Supply Board Topace Rear" To "Power Supply Board Topapex Rear"
			12	Revised Photo 12 caption from "Control Board Topace Front" To "Control Board Topapex Front"
			13	Revised Photo 13 caption from "Control Board Topace Rear" To "Control Board Topapex Rear"
			15	Added new Photograph
			16	Added new Photograph
			17	Added new Photograph
			1	Added "822100" to LG Chem AF312B specific models in technical information
				Added "822100" to Lotte Chemical VH-0815(+) specific models in technical information
			4	Added "822100" to LG Chem AF312B specific models in technical information
				Added "822100" to Lotte Chemical VH-0815 specific models in technical information
			5	Added "822100" to LG Chem AF312B specific models in technical information
				Added "822100" to Lotte Chemical VH-0815 specific models in technical information
			6	Added "822100" to Polyrocks 5000(f1) specific models in technical information
				Added "822100" to Silver Age Engineering 433+ specific models in technical information
			7	Added "822100" to Kingda Sci PBT-RG301(r1) specific models in technical information
				Corrected model number for the Nantong Orient Plastics Co Ltd. Louver Connector+Louver From "3080 G30" To "3080 GF30"
			8	Added "822100" to Kingda Sci PBT-RG301(r1) specific models in technical information
				Corrected model number for the Nantong Orient Plastics Co Ltd. Element Holder "3080 G30" To "3080 GF30"
			13	Added Photo callout 15

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
G106577195CRT	 Russell Ransom	4	14	Added "822100" to LG Chem GN-10006FM specific models in technical information
				Added "822100" to Silver Age Engineering 230 specific models in technical information
			11	Added new heating element "KAI YI ELECTRIC HEATING(M) SDN. BND." "LYB-120-1500"
			12	Added photo "15" to callouts
			13	Added photo "15" to callouts
			15	Added photo "15" to callouts
				Added new Interchangeable cordset for the 822100
			16	Added "822100" to All Power Supply Board specific models in technical information
				Corrected Manufacturer From "Topace Technology Co Ltd." To "Topapex Technology Co Ltd."
			17	Corrected Manufacturer From "Topace Technology Co Ltd." To "Topapex Technology Co Ltd."
			18	Added various PCB material option
			20	Added new Internal Wiring 1015 "20AWG, 600V, 105°C For connections to the PCB"
			21	Added Various option to all 2468 Wire
			24	Added photo "16" to callouts
				Added photo "16" to callouts
			25	Added Alternate X2 Capacitor "GUANGDONG JURCC ELECTRONICS CO; LTD." "Various"
			26	Added photo "16" to callouts
			27	Added new transformer
				Added photo "16" to callouts
			28	Added Various option for each tip over switch
			34	Added New Power Board
			35	Added New Control Board
			36	Added new component
			37	Added new component
			38	Added new component
			39	Added new component
			40	Added new component
			41	Added new component
			42	Added new component
			43	Added new component
			44	Added new component
		5	27	Added new CEC component

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
		6	8	Revised the Schematics as follows: From "Schematics - Refer to Illustrations 2 and 3 for schematics requiring verification during Field Representative Inspection Audits. Verify capacitor EC1." To "Schematics - Refer to Illustrations 2, 3, and 6 for schematics requiring verification during Field Representative Inspection Audits."
			11	Revised the installation instructions as follows: From "Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustrations 5 for details. Rev.New 5/24 CL22100ES." To "Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustrations 5 for details. Rev.New 5/24 CL22100ES, and refer to Illustrations 7a through 7d for detail regarding the 822100."
			14	Revised the Carton markings section as follows: Changed the following line From "Use only with a standard polarized 120V AC outlet." To "Use only with a standard polarized 120V AC outlet. (This line is Specific to the CL22100, CL22100C only)" Added the following line "Use only with a standard grounded polarized 120V AC outlet. (This line is Specific to the 822100 only)""
		7	3	Revised the illustration title from "Topace Technology Co., LTD (Verify Polarity L-N, and Capacitor EC1)" to "Topapex Technology Co., LTD (Verify Polarity L-N, and Capacitor EC1)"
			6	Added new illustration
			7a	Added new illustration
			7b	Added new illustration
			7c	Added new illustration
			7d	Added new illustration
		8	--	Added new test block and signatures for work done under the scope of this project.