1.0 Reference and Address			
Report Number	181206080GZU-001	Original Issued: 9-Apr-2019	Revised: 13-Jun-2022
Standard(s)	Household And Similar Electrical Appliances, Part 1: General Requirements [UL 60335-1:2016 Ed.6] Safety Requirements for Household and Similar Electrical Appliances - Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances and Ice-Makers [UL 60335-2-24:2017 Ed.2+R:22May2019] Safety of Household and Similar Appliances - Part 1: General Requirements [CSA C22.2#60335-1:2016 Ed.2] Household and Similar Electrical Appliances – Safety – Part 2-24: Particular Requirements for Refrigerating Appliances, Ice-cream Appliances and Ice-makers [CSA C22.2#60335-2-24:2017 Ed.2+U1]		

Applicant	Zhongshan Bodega Electrical Appliance Co., Ltd	Manufacturer	**Zhongshan Bodega Electrical Appliance Co., Ltd**
Address	No. 20 Jianmin Road, Huangpu town, Zhongshan, Guangdong	Address	No. 20 Jianmin Road, Huangpu town, Zhongshan, Guangdong
Country	China	Country	China
Contact	Facty Liu	Contact	Facty Liu
Phone	86-760-88770396	Phone	86-760-88770396
FAX	NA	FAX	NA
Email	facty@bodega.cn longfeiyu@bodega.cn	Email	facty@bodega.cn longfeiyu@bodega.cn

2.0 Product Description

Product	Wine Cooler
Brand name	BODEGA, AMZCHEF, AAOBOSI, Antarctic Star, ProFire, MAVENCOOL, SOTOLA
Description	The products covered in the report are Wine Cooler rated 115-127V, 60Hz, intended for household and indoor use or outdoor use, provided with a permanently connected 3-wire flexible power supply cord terminated in a grounding type attachment plug.
Models	JC-58A, JC-85A, JC-85B, JC-85C, JC-145A, JC-145B, JC-145C, JC-215A, JC-215B, JC-265A, JC-265B, JC-375A, JC-375B, JC-425A, JC-425B, JC-165A, JC-165B, JC-165C, JC-115DR, JC-145CO.
Model Similarity	All models are use the same switching power unit expect control program. Models with "JC" means wine cooler, used glass door; 58, 85, 145, 165, 215, 265, 375, 425, 115 on model number means different store volume and overall size; Model with "A" means one storage compartment; models with "B" means two storage compartments. Models with "C" is respectively the same as the models with "A" except model number. JC-165 series models is respectively the same as JC-145 series models except the compressor and overall size. JC-115DR has two storage compartments and two glass door. JC-145CO is same as JC-145A, except JC-145CO have stainless steel enclosure, inside liner and sealed stainless steel rear cover, JC-145CO have two Condenser Fan, and JC-145CO is intended for outdoor use.

Ratings

Models	Ratings		Refrigerant
JC-58A	Cooling	115-127V, 60Hz, 1A	R600a / 17g
JC-85A, JC-85B, JC-85C	Cooling	115-127V, 60Hz, 1A	R600a / 22g
JC-115DR	Cooling	115-127V, 60Hz, 1.2A	R600a / 28g
JC-145A, JC-145B, JC-145C, JC-145CO	Cooling	115-127V, 60Hz, 1.2A	R600a / 28g
JC-165A, JC-165B, JC-165C	Cooling	115-127V, 60Hz, 1.2A	R600a / 28g
JC-215A, JC215B	Cooling	115-127V, 60Hz, 1.2A	R600a / 35g
	Heating	115-127V, 60Hz, 120W	
JC-265A, JC-265B	Cooling	115-127V, 60Hz, 1.7A	R600a / 52g
	Heating	115-127V, 60Hz, 120W	
JC-375A, JC-375B	Cooling	115-127V, 60Hz, 1.7A	R600a / 52g
	Heating	115-127V, 60Hz, 120W	
JC-425A, JC-425B	Cooling	115-127V, 60Hz, 1.7A	R600a / 52g
	Heating	115-127V, 60Hz, 120W	

Other Ratings	NA

3.0 Product Photographs

Photo 1 - External view of JC-425B, also represent other models other than JC-115DR, JC-145CO except the overall size

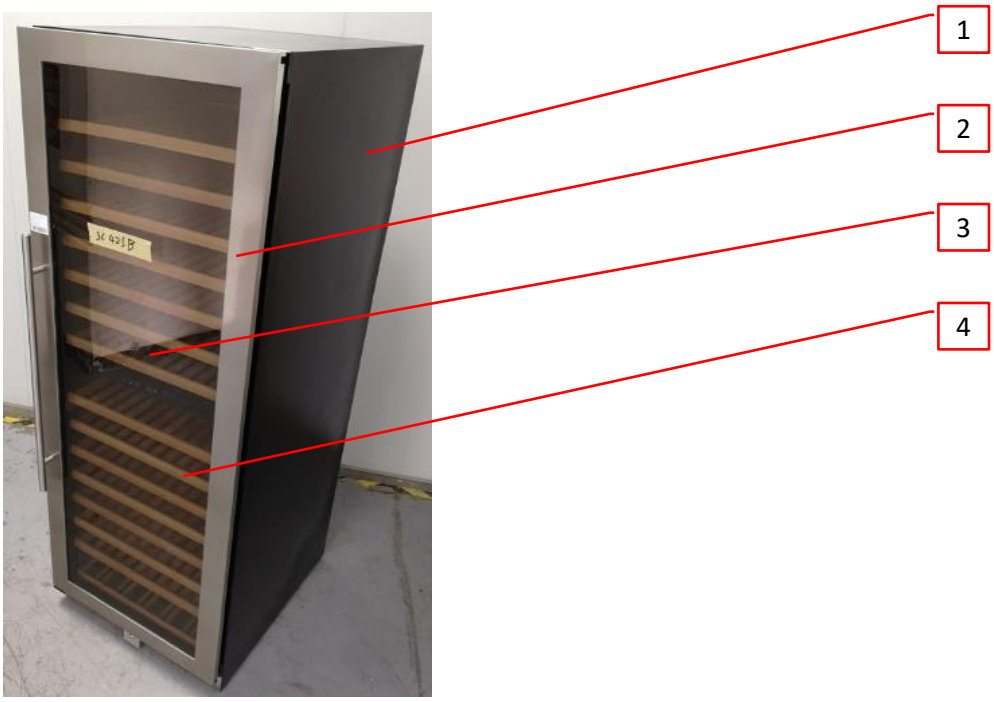


Photo 1a - External view of JC-115DR.

3.0 Product Photographs

Photo 1b - External view of JC-145CO.

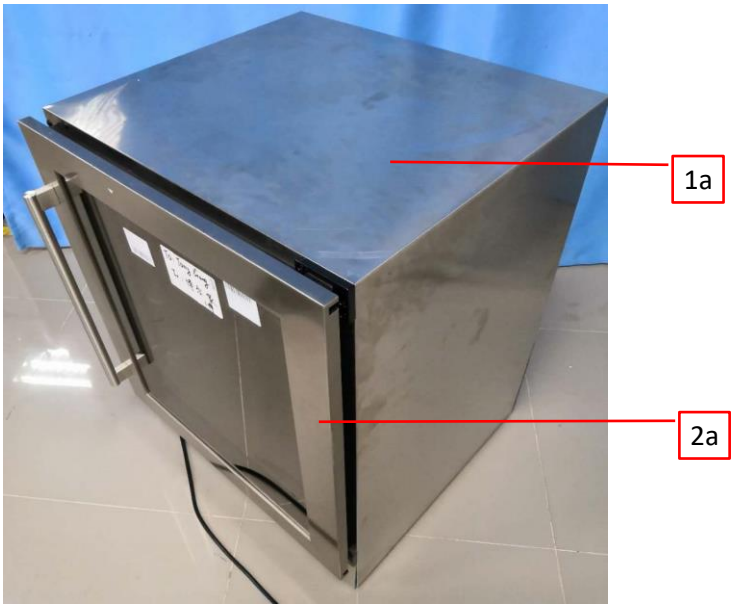


Photo 2 - External view of JC-425B (the rear cover was removed), also represents all models other than JC-145CO except the size.

3.0 Product Photographs

Photo 2a - External view of JC-145CO

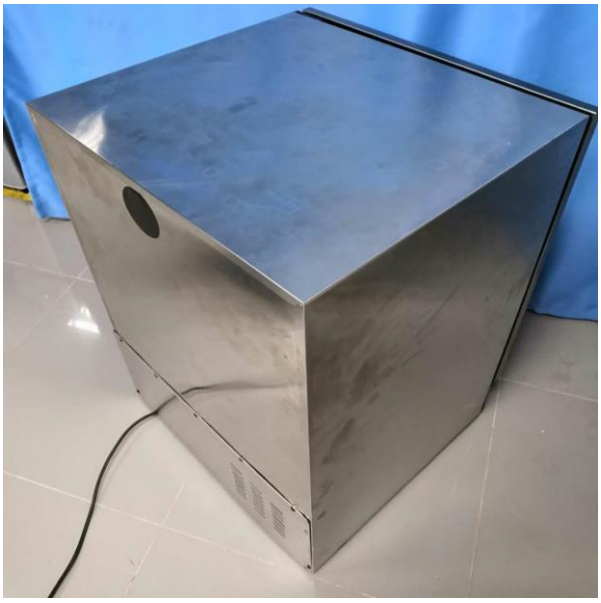


Photo 3 - External view of JC-58A, also represents all models other than JC-85A, JC-85B, JC-115DR , JC-145CO except the size

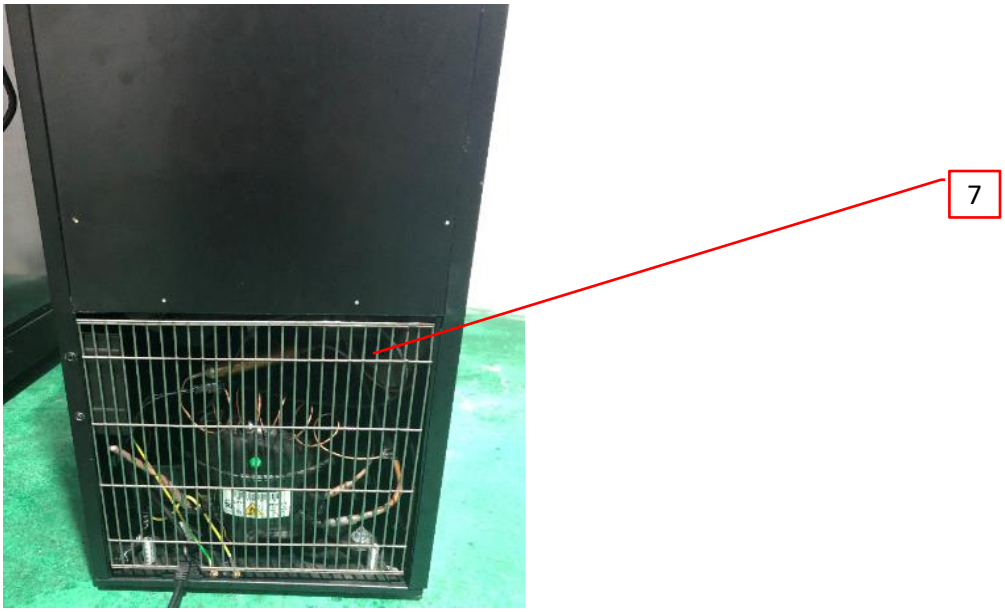


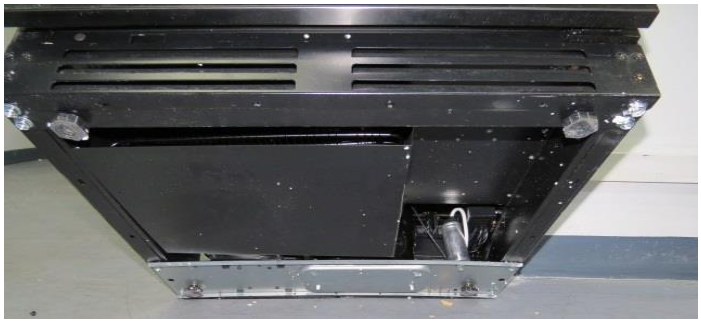
Photo 3a - External view of JC-115DR

3.0 Product Photographs

Photo 3b - External view of JC-145CO

Photo 4 - External view of JC-85B

Photo 4a - External view of JC-165B, also represents all models.



3.0 Product Photographs

Photo 5 - Internal view of JC-425B, also represent model with "B" except the overall size

Photo 6 - Internal view of JC-425A, also represents models with "A" except the overall size

3.0 Product Photographs

Photo 7 - Internal view of JC-425B

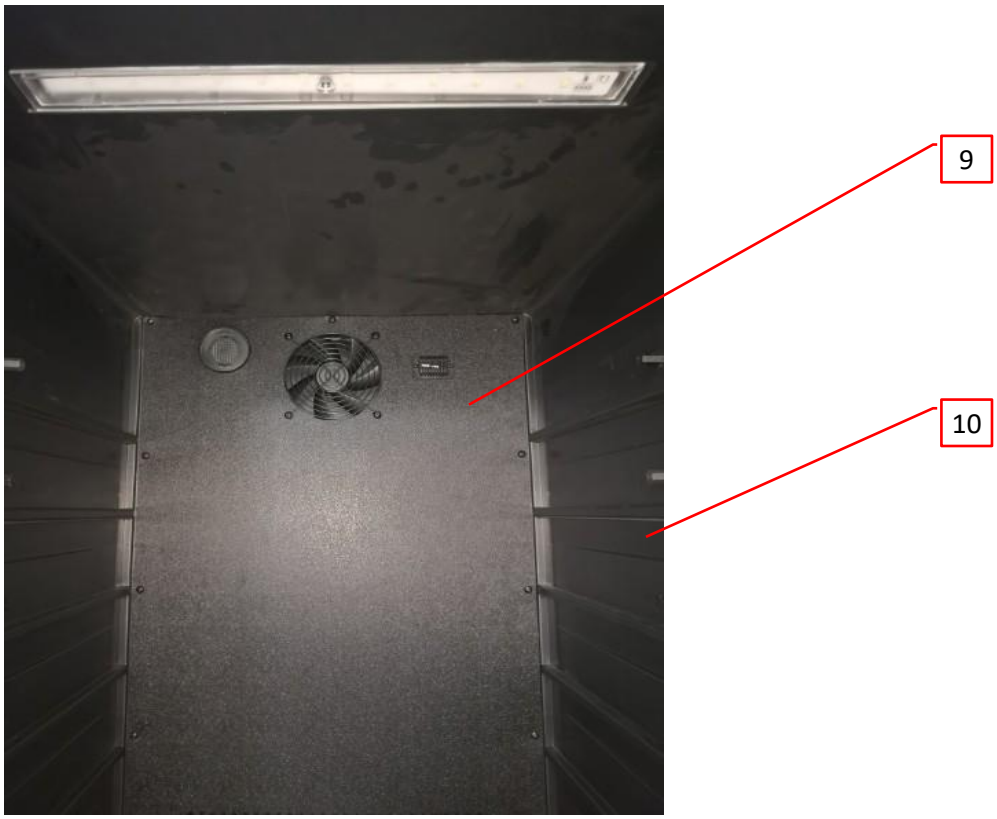
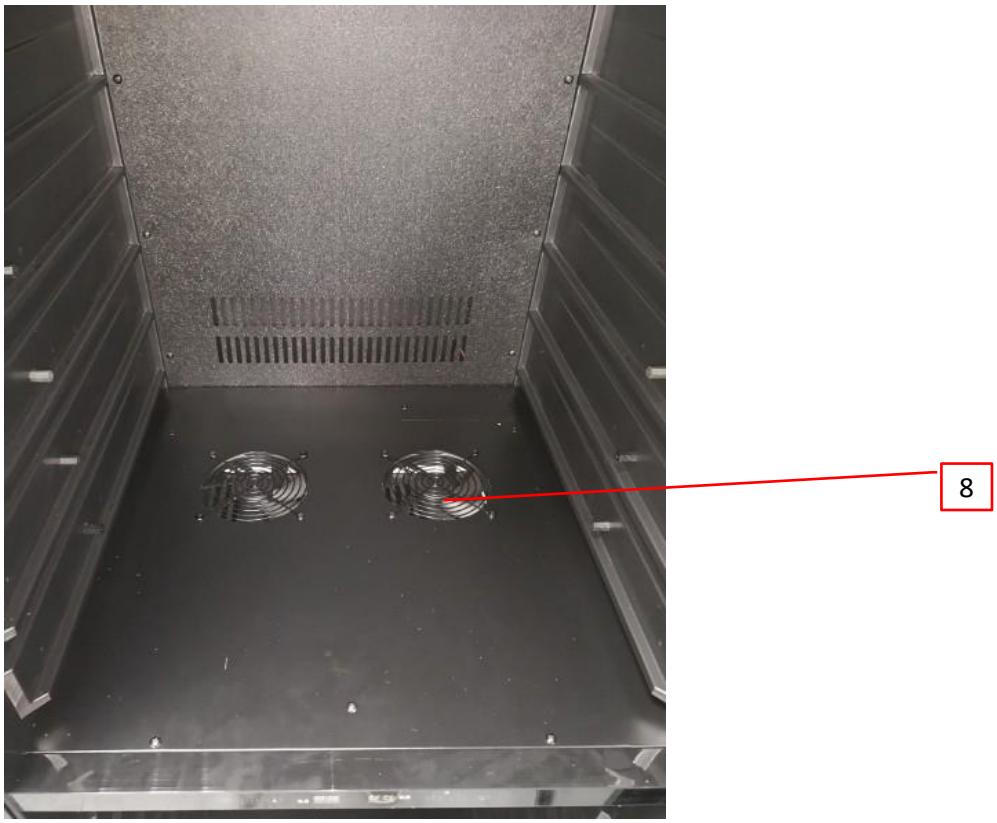


Photo 8 - Internal view of JC-425B



3.0 Product Photographs

Photo 9 - Internal view of JC-425B

Photo 9a - Internal view of JC-85B

3.0 Product Photographs

Photo 9b - Internal view of JC-165A

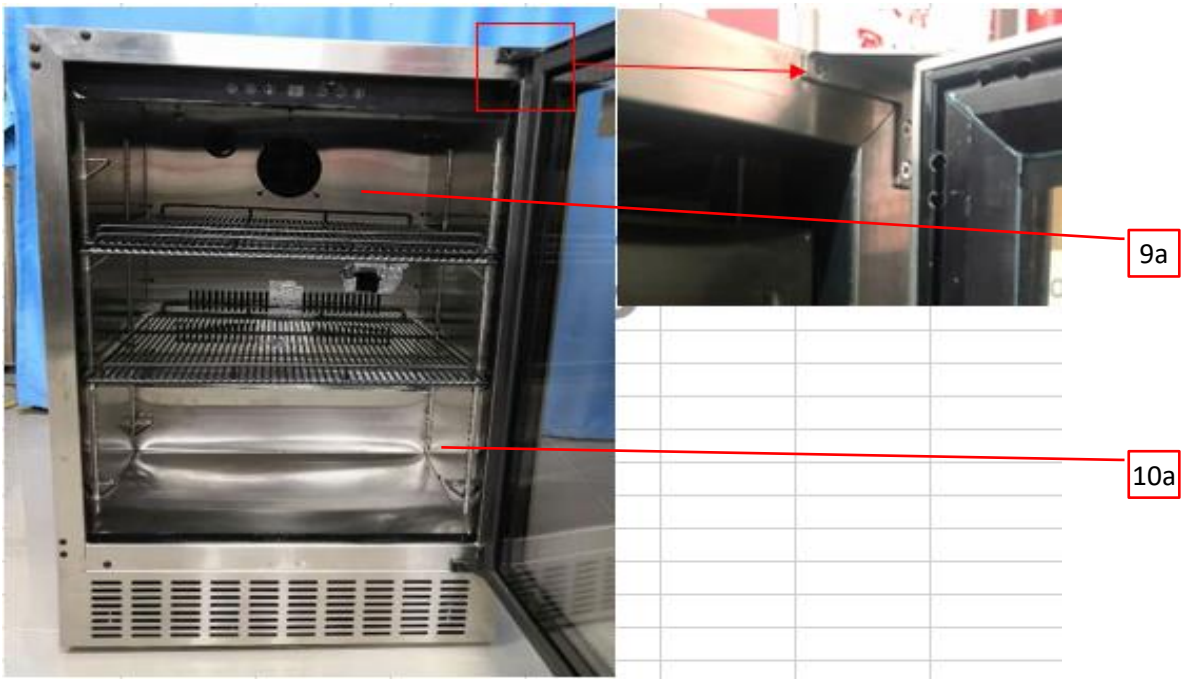
Photo 9c - Internal view of JC-165B

Photo 9d - Internal view of JC-165B

3.0 Product Photographs

Photo 9e - Internal view of JC-115DR

Photo 9f - Internal view of JC-145CO



3.0 Product Photographs

Photo 10 - Internal view of JC-85B, also represent model with "B" except the size

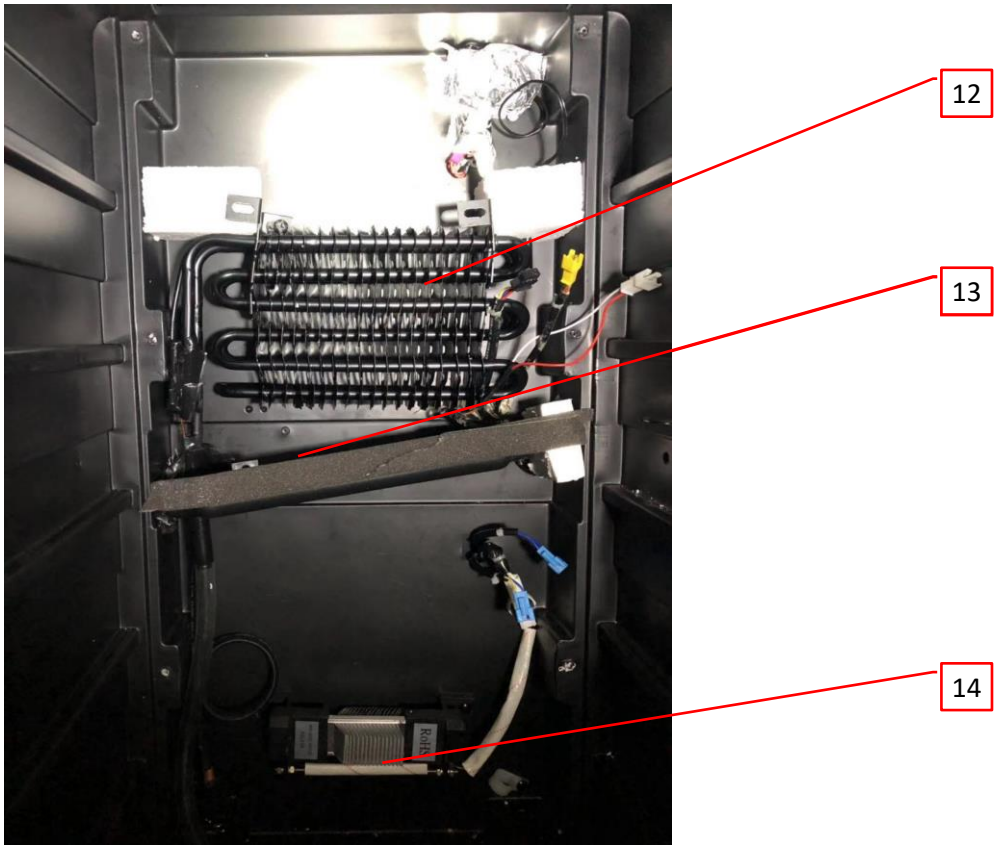
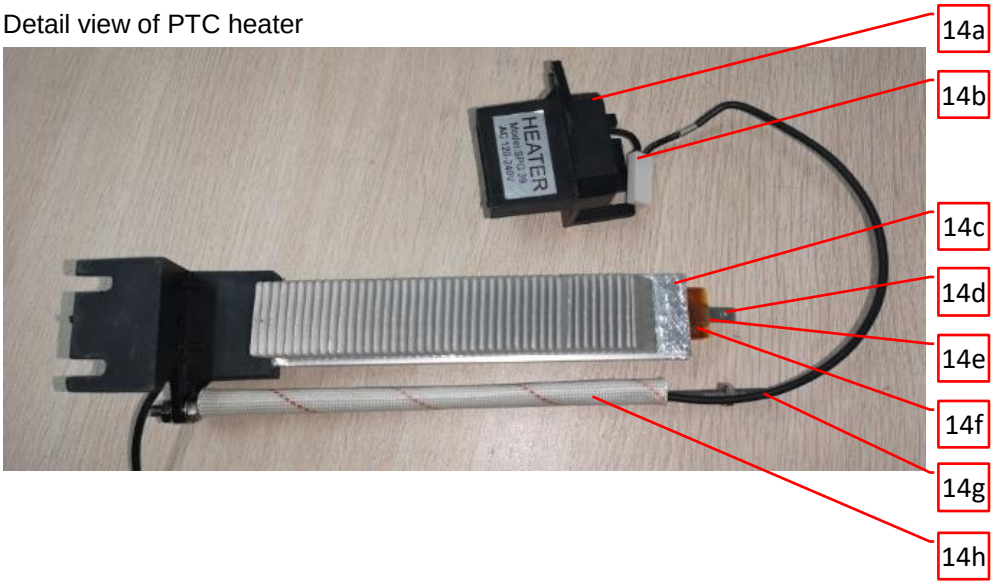


Photo 11 - Internal view of JC-425B

3.0 Product Photographs

Photo 12 - Internal view of JC-425B

Photo 13 - Detail view of PTC heater



3.0 Product Photographs

Photo 14 - Internal view of JC-58A, also represents models with "A" and JC-145CO except the size

Photo 15 - Internal view of JC-425A

3.0 Product Photographs

Photo 15a - Internal view of JC-165A

Photo 15b - Internal view of JC-165B

3.0 Product Photographs

Photo 15c - Internal view of JC-115DR

Photo 16 - Internal view of JC-425B, also represent JC-145A, JC-145B, JC-215A, JC-215B, JC-265A, JC-265B, JC-375A, JC-375B, JC-425A

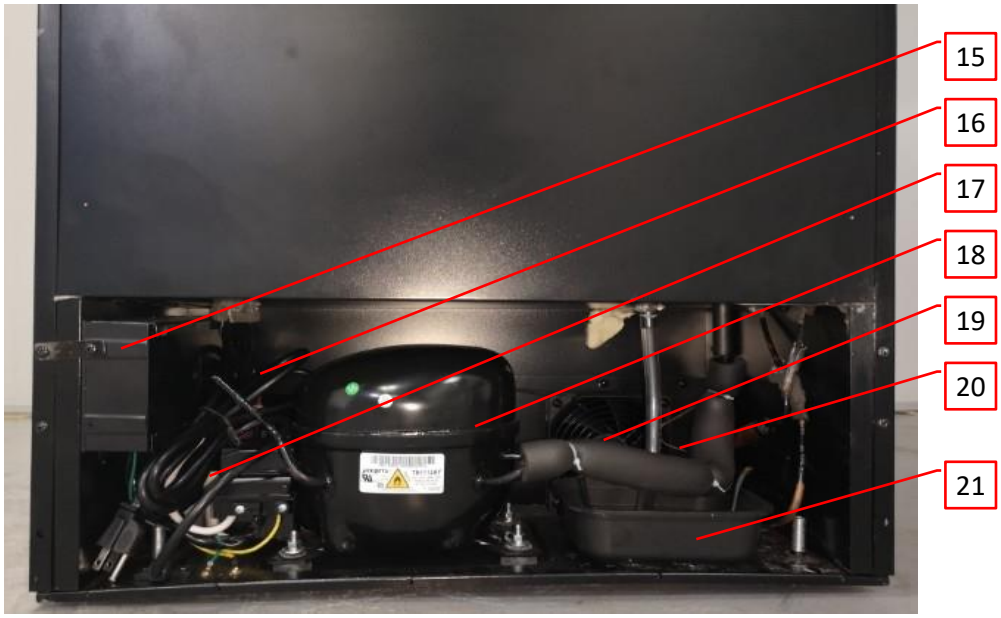


Photo 17 - Internal view of JC-85A

3.0 Product Photographs

Photo 18 - Internal view of JC-58A

Photo 19 - External view of JC-425B, also represents all models except the size - bottom

Photo 19a - Internal view of JC-85B with alternative compressor, also represents JC-85, JC-165 series models except the size

3.0 Product Photographs

Photo 19b - Internal view of JC-115DR.

Photo 19c - Internal view of JC-145CO.

Photo 20 - Detail view of JC-425B, also represents all models

3.0 Product Photographs

Photo 21 - External view of electric box

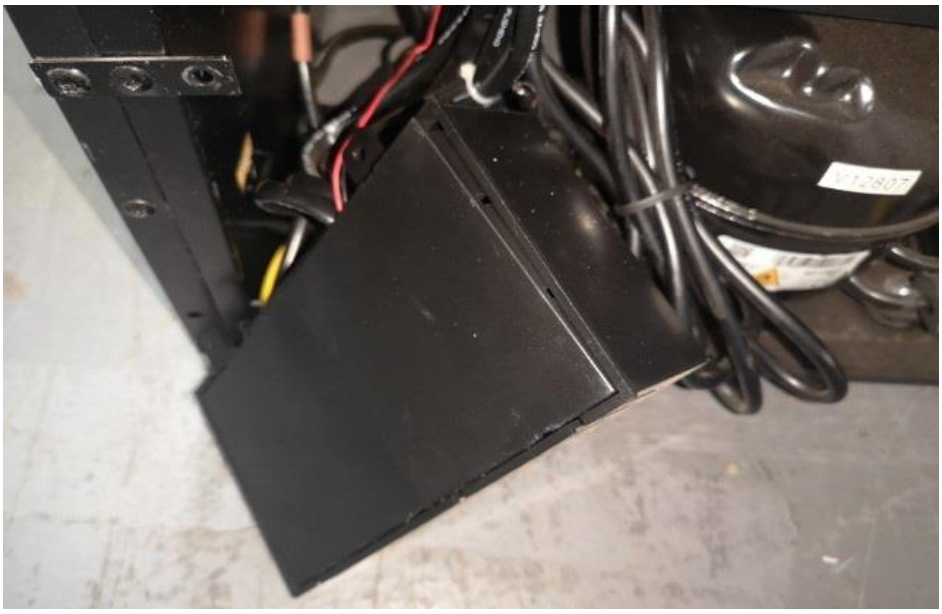


Photo 21a - External view of electric box of JC-115DR, also represents all other models

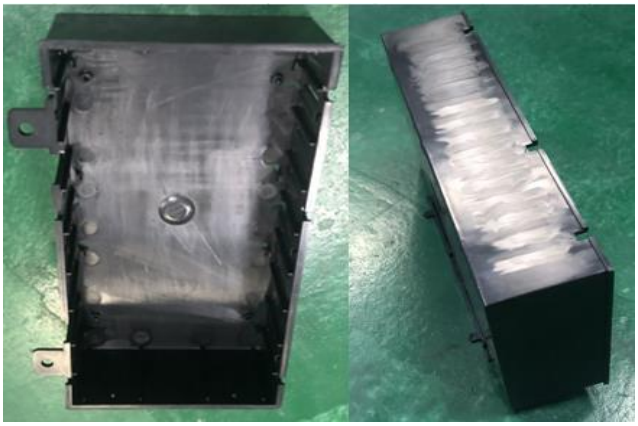


Photo 22 - Internal view of electric box

3.0 Product Photographs

Photo 23 - Front view of switching power unit BJ-General-Power-01

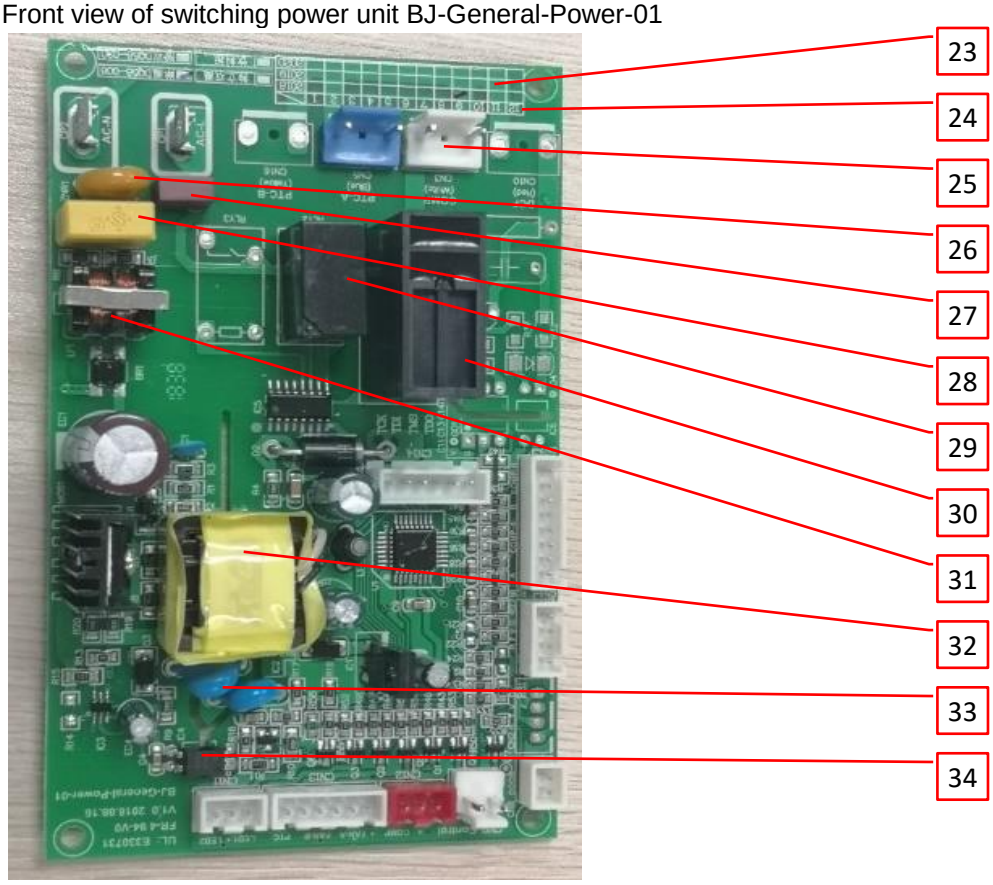
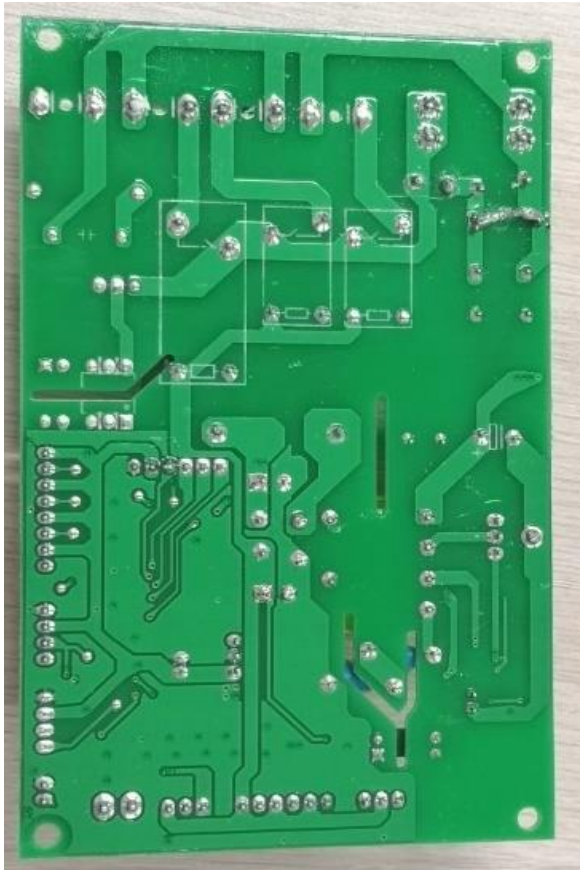


Photo 24 - Rear view of switching power unit BJ-General-Power-01



3.0 Product Photographs

Photo 25 - Detail view of the lock

Photo 26 - Internal view of JC-85B with alternative control PCB, also represents JC-85, JC-165 series models

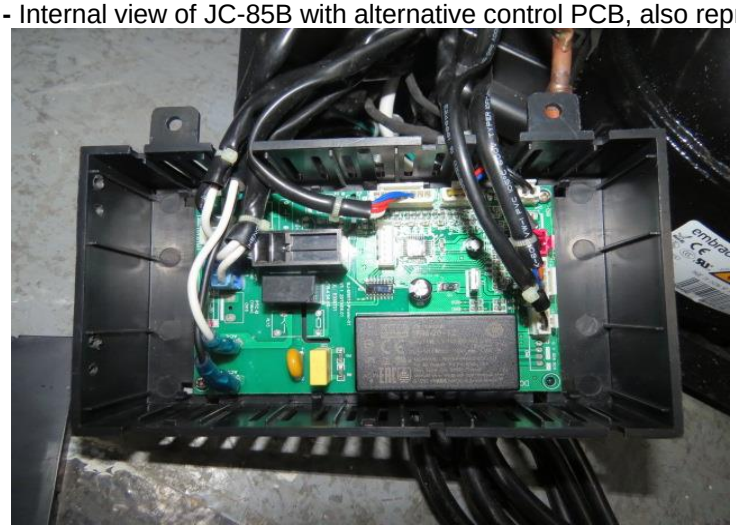


Photo 27 - Front view of control board assembly BJ-MWI12-Power-01

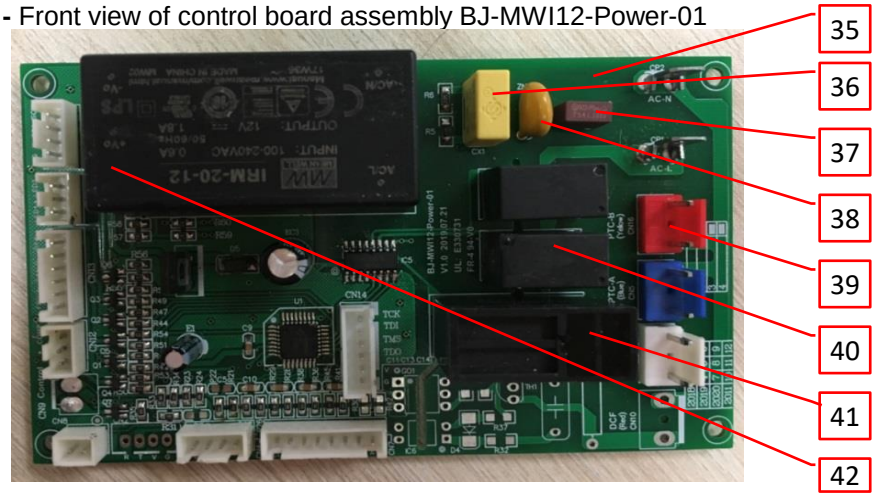
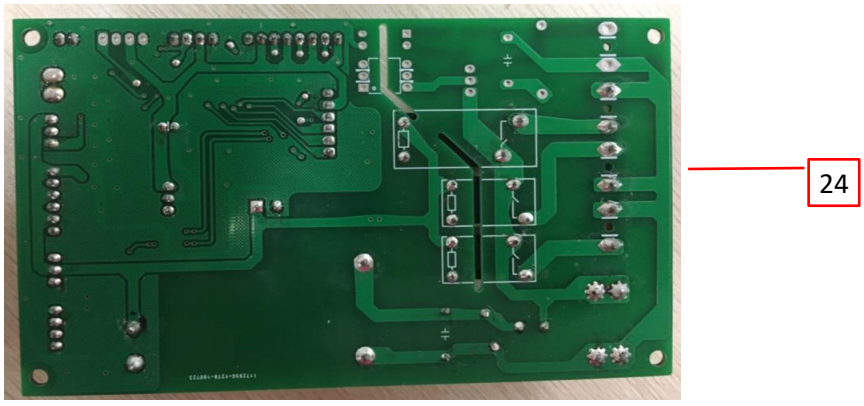


Photo 28 - Rear view of switching power unit BJ-MWI12-Power-01



3.0 Product Photographs

Photo 29 - Internal view of JC-115DR with switching power unit, also represents all other models

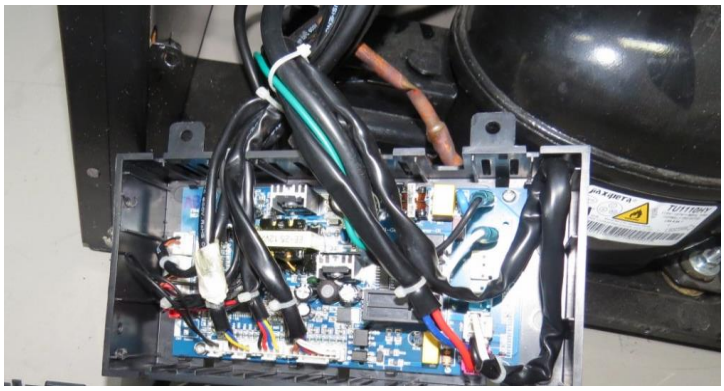


Photo 30 - Front view of switching power unit BEJ-HJG-POWER.

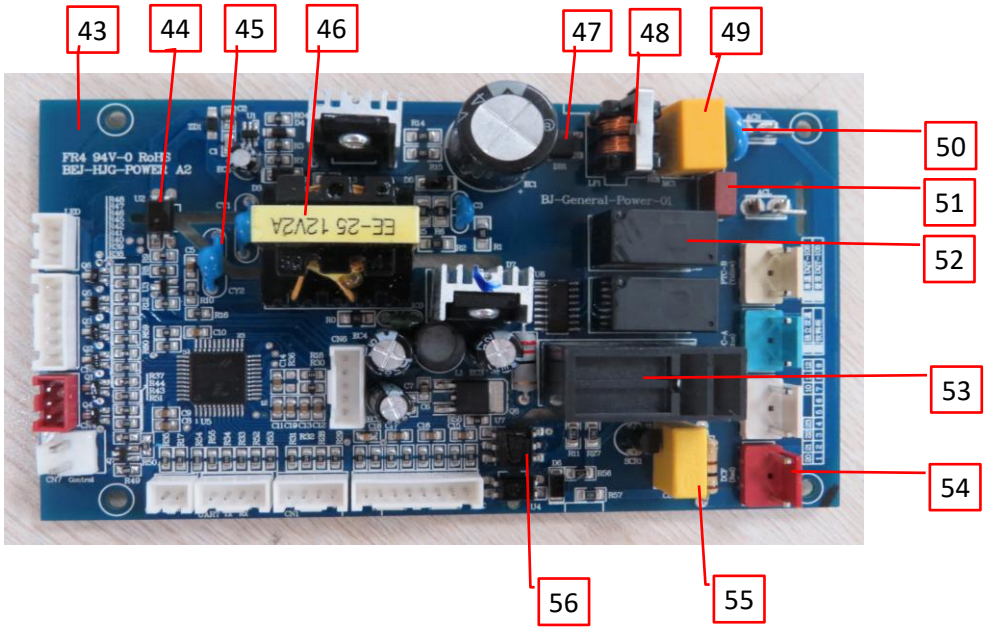
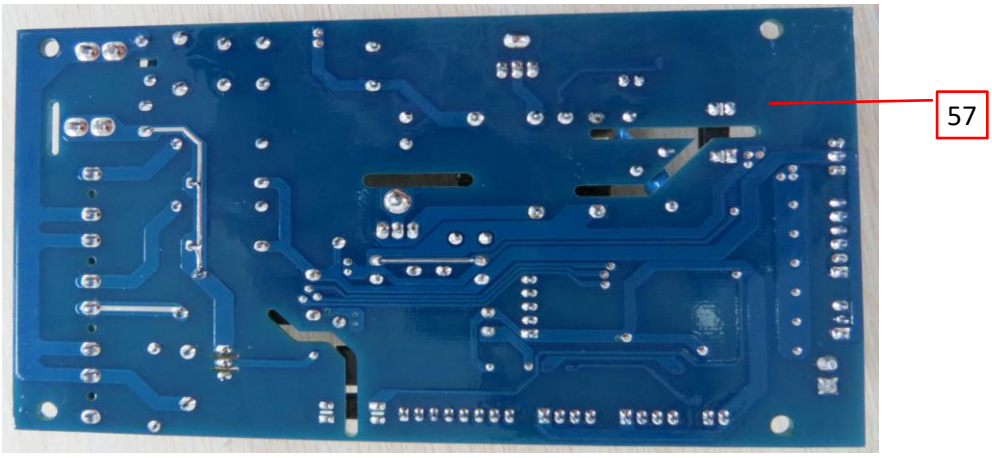


Photo 31 - Rear view of switching power unit BEJ-HJG-POWER.



3.0 Product Photographs

Photo 32 - View of Transformer EF20

Photo 33 - View of Transformer EE25 12V2A

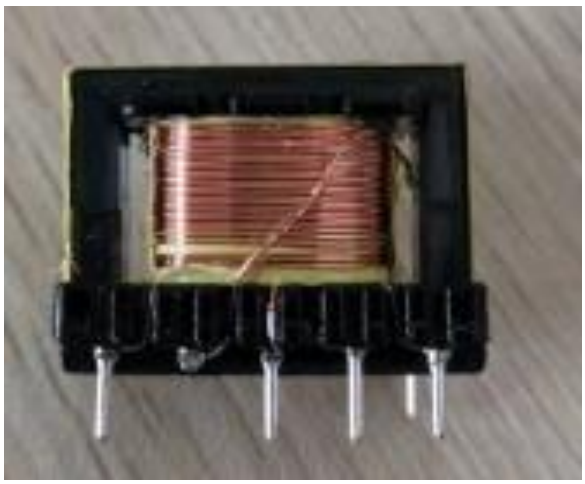
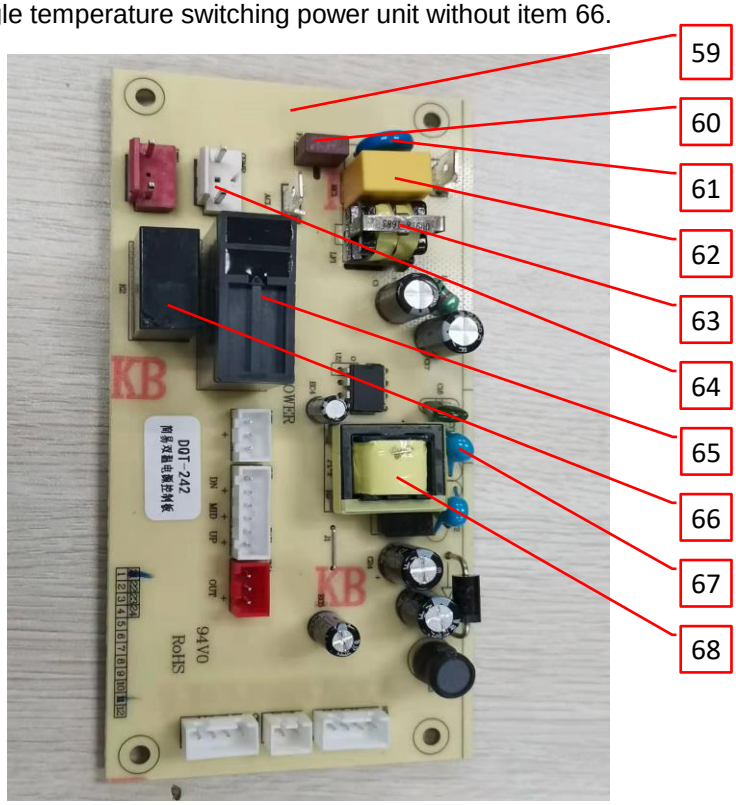


Photo 34 - View of double temperature switching power unit DQT-POWER.
Note: Single temperature switching power unit without item 66.



3.0 Product Photographs

Photo 35 - View of double temperature switching power unit DQT-POWER.
Note: Single temperature switching power unit without item 66.

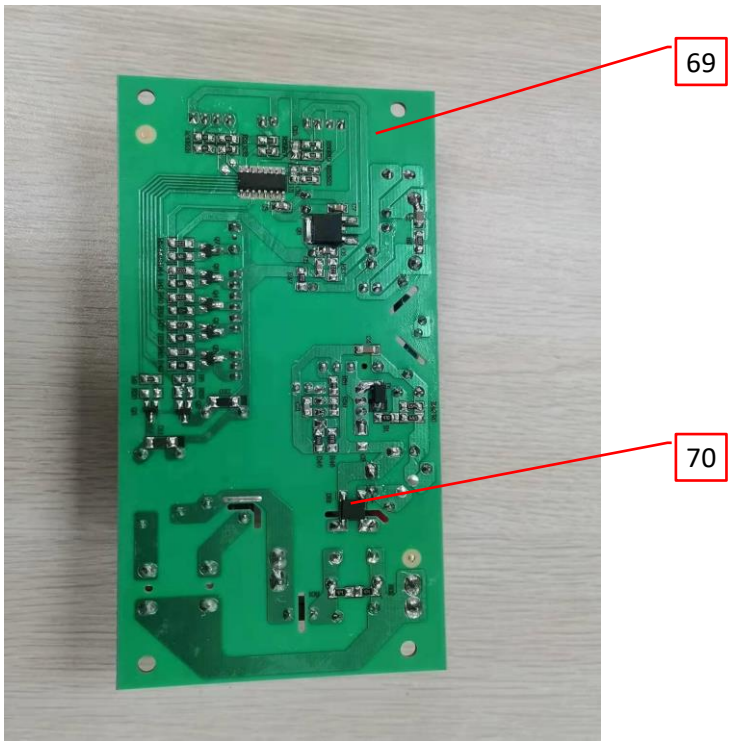
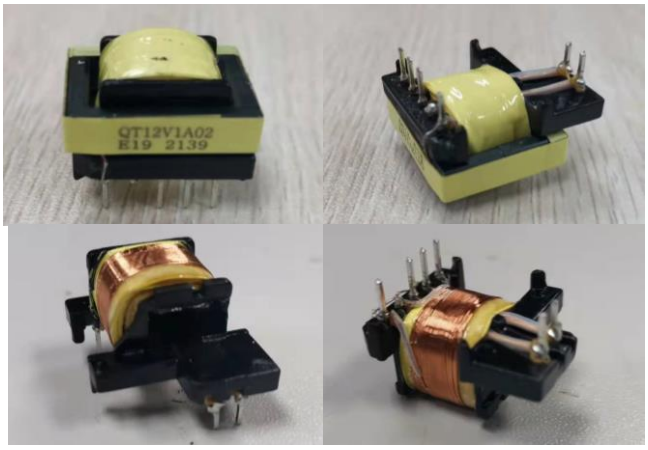


Photo 36 - View of transformer, model E19(5+2).



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	Enclosure	Various	Various	Formed of painted steel sheet, thickness min. 0.5 mm. Including top, side, rear and bottom outer cabinet.	NR
1b	1a	Enclosure	Various	Various	Formed of stainless steel sheet, thickness min. 0.6 mm. Including top, side, rear and bottom outer cabinet. For model JC-145CO.	NR
1	2	Door Frame	Various	Various	Formed of stainless steel sheet, thickness 0.6 mm.	NR
1b	2a	Door Frame	Various	Various	Formed of stainless steel sheet, thickness min. 0.5 mm. For model JC-145CO.	NR
1	3	Glass Door	Foshan Shunde Changzhu Plastic Industry Co Ltd	Various	Tempered Glass, two layers, thickness 4 mm.	NR
1	4	Shelf	Various	Various	Form of wood, Min. thickness 12 mm.	NR
9e	4a	Shelf 2	Various	Various	Made of metal bar, diameter 5.0mm for frame, diameter 2.0mm for others.	NR
2	5	Nameplate Marking Label(not shown)	LECCO (ZHONG SHAN) ADHESIVE PRODUCTS CO LTD	743	Affixed to outer cabinet of the unit, Suitable for painted sheet steel surface, rated max 60°C. For all models except JC-145CO.	UR
			Various	Various	Affixed to outer cabinet of the unit, suitable for galvanized steel, rated max 125 °C. For all models except JC-145CO.	cURus
			Various	Various	Affixed to outer cabinet of the unit, suitable for stainless steel and outdoor use, rated max 125 °C. For JC-145CO.	cURus
2	6	Warning Marking Label(not shown)	LECCO (ZHONG SHAN) ADHESIVE PRODUCTS CO LTD	743	Affixed to outer cabinet of the unit, Suitable for painted sheet steel surface, rated max 60°C. For all models except JC-145CO.	UR
			Various	Various	Affixed to outer cabinet of the unit, suitable for galvanized steel, rated max 125 °C. For all models except JC-145CO.	cURus
			Various	Various	Affixed to outer cabinet of the unit, suitable for stainless steel and outdoor use, rated max 125 °C. For JC-145CO.	cURus
3	7	Rear Cover	Various	Various	For all models except JC-145CO. Relevant size base on specific model, painted Q235A steel wire, secured by screws.	NR
3b	7a	Rear Cover	Various	Various	For model JC-145CO. Formed of stainless steel sheet, thickness min 0.5 mm secured by screws.	NR

4.0 Critical Components

# Photo	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
5, 8	8	Evaporator Fan	ZHAOQINGCHENHUI ELECTRIC CO LTD	CHA9012RM-25B	DC 12V, 0.16A. For JC-58A, JC-85A, JC-85B, JC-85C.	cURus
				CHA12012RL-25B	DC 12V, 0.2A. For all models.	cURus
7	9	Evaporator Cover	NINGBO LG YONGXING CHEMICAL CO LTD	HI-121H	ABS, all color, HB, min. thickness 1.5mm, 80°C	cURus
9f	9a	Evaporator Cover	Various	Various	Formed of stainless steel sheet, thickness min. 0.6 mm. For model JC-145CO.	NR
7	10	Cabinet Liner	NINGBO LG YONGXING CHEMICAL CO LTD	HI-121H	ABS, all color, HB, min. thickness 1.5mm, 80°C	cURus
9f	10a	Cabinet Liner	Various	Various	Formed of stainless steel sheet, thickness min. 0.6 mm. For model JC-145CO.	NR
9	11	Fan for PTC heater	ZHAOQINGCHENHUI ELECTRIC CO LTD	CHA8012RM-15B	DC 12V, 0.18A. For JC-85B, JC-145B, JC-165B, JC-215B.	cURus
				CHA12012RL-25B	DC 12V, 0.2A. For JC-265B, JC-375B, JC-425B.	cURus
10	12	Evaporator	Various	Various	Copper tube, outside diameter, wall thickness and other information refer to illustration 5.1-5.7 for detail.	NR
10	13	Water Pan	NINGBO LG YONGXING CHEMICAL CO LTD	HI-121H	ABS, all color, HB, min. thickness 1.5mm, 80°C	cURus
10	14	PTC Heater (optional)	Guangzhou Jianlong Electrical Appliances Co., Ltd.	SPG 39	125 VAC, 50-60Hz, 120W. For JC-215A, JC-215B, JC-265A, JC-265B, JC-375A, JC-375B, JC-425A, JC-425B	NR
			Guangzhou Jianlong Electrical Appliances Co., Ltd.	SPG 40	125 VAC, 50-60Hz, 60W. For JC-58A, JC-85A, JC-85B, JC-85C, JC-145A, JC-145B, JC-145C, JC-165A, JC-165B, JC-165C, JC-145CO.	NR
13	14a	PTC heater Bracket	GINAR TECHNOLOGY CO LTD	A0520FN(+)	PA66, Rated V-0, 115°C, min. thickness 0.75mm.	cURus
13	14b	Thermal Protector	CHANGZHOU CITY CHANGLIAN RADIO CO LTD	CR-KW-70	AC110V/220V, 70°C, endurance: 10K. Auto-reset type.	cURus
13	14c	Aluminium Housing	Various	Various	thickness1.0mm min.	NR
13	14d	Quick Connect	Various	Various	Suitable for 20 AWG wire.	cURus
13	14e	Heating Element	SHANGHAI PAKE THERMISTOR CERAMICS CO LTD	MZ43F245-212(120)	AC125V, 4A, 222 °C.	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]
13	14f	Insulation Tap	TIANJIN TIANYUAN ELECTRONIC MATERIAL CO LTD	6051	PI, YL color, rated V-0, 130°C, thickness 0.05mm, 3 layers provided.	cURus
13	14g	Lead Wire	Various	1015	20AWG, 600V, 105°C, VW-1.	cURus
13	14h	Fiberglass Sleeving	Various	Various	600 V, 200°C, VW-1.	cURus
16	15	Electric Box	CHI MEI CORPORATION	PA-765A(+)	ABS, all color, 5VB, min. thickness 2.1mm, 80°C. Consist of 2 parts.	cURus
16	16	Power Supply Cord	Various	Various	SJT, 18 AWG×3C, rating: 300 V, 105 °C, VW-1, length in range of 1.5-3.0 m, integrally molded with strain relief, terminated in a 3-wire grounding attachment plug, NEMA Config 5-15P. For all models except JC-145CO.	cURus or cETLus
			Various	Various	SJTW, 18 AWG×3C, rating: 300 V, 105 °C, VW-1, length in range of 1.5-3.0 m, integrally molded with strain relief, terminated in a 3-wire grounding attachment plug, NEMA Config 5-15P. For model JC-145CO only.	cURus or cETLus
16	17	Compressor Capacitor	SHANGHAI HAOYE ELECTRIC CO LTD	CBB65	250V, 8μF for compressor TU1110HY; 450 V, 12 μF for compressor EMYS45CLP; 250V, 10μF for compressor TH1114HY.	cURus
			SHANGHAI HAOYE ELECTRIC CO LTD	MKP	250V, 8μF for compressor TU1110HY; 450 V, 12 μF for compressor EMYS45CLP; 250V, 10μF for compressor TH1114HY.	cURus
			NINGGUO YUHUA ELECTRICAL PRODUCTS CO LTD	CBB65-A	250V, 8μF for compressor TU1110HY; 450 V, 12 μF for compressor EMYS45CLP.	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]
16, 19a	18	Compressor	JIAXIPERA COMPRESSOR CO LTD	MM1060HY	115-127V, 60Hz, 1PH, LRA 4.7A, R600a, thermally protected. For JC-58A, JC-85A, JC-85B, JC-85C.	cURus
				TU1110HY	115-127V, 60Hz, 1PH, LRA 6.9A, R600a, thermally protected. For JC-145A, JC-145B, JC-145C, JC-215A, JC215B, JC-115DR, JC-145CO.	cURus
				TH1114HY	115-127V, 60Hz, 1PH, LRA 9.4A, R600a, thermally protected. For JC-265A, JC-265B, JC-375A, JC-375B, JC-425A, JC-425B.	cURus
			ANHUI MEIZHI COMPRESSOR CO LTD	FZ35Y1M-U	115-127V, 60Hz, 1PH, LRA 4A, R600a, thermally protected. For JC-58A, JC-85A, JC-85B, JC-85C.	cURus
				FZ59E1G-U	115-127V, 60Hz, 1PH, LRA 7.7A, R600a, thermally protected. For JC-145A, JC-145B, JC-145C, JC-165A, JC-165B, JC-165C, JC-115DR.	cURus
			EMBRACO INDUSTRIA DE COMPRESSORES E SOLUCOES EM REFRIGERACAO LTDA	EMYS45CLP	115-127VAC, 60Hz, RLA 0.6, LRA 5.4, R600a, thermally protected. For JC-85, JC-165 series models.	cURus
16	19	Condenser Fan	ZHAOQINGCHENHUI ELECTRIC CO LTD	CHA12012BL-25B	DC12V, 0.2A. Used one condenser fan for all models except JC-145CO; used two condenser fan for JC-145CO.	cURus
16	20	Capillary	Various	Various	Copper tube, outside diameter is Φ 1.8 mm, wall thickness: 0.7 mm, length 1.4m for models with "58", "85", "145", "165", " 215"; length 1.9m for models with "265", "375", "425"; length 1.45m for model JC-115DR.	NR
16	21	Water Pan	NINGBO LG YONGXING CHEMICAL CO LTD	HI-121H	ABS, all color, HB, min. thickness 1.5mm, 80°C	cURus
19	22	Condenser (not shown)	Various	Various	Bundy tube, outside diameter and other information refer to illustration 6.1~6.3 for detai.	NR
23	23	Switching Power Unit	Guangzhou Jianlong Electric Appliance CO LTD	BJ-General-Power-01	Input: 115-127 VAC, Output: 12VDC, 1.2A, class 2. Include item 24-34. For all models.	NR
23, 28	24	PCB	Various	Various	V-0, 130 °C, thickness: 1.6 mm, meet UL796.	cURus
23	25	Quick Connector	Various	Various	Suitable for 18-24 AWG wire connect.	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]
23	26	Varistor	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR10561	Vn(Vdc): 560V, 105°C	cURus
23	27	Fuse	DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932	250V, 2 A	cURus
			Various	Various	300V, 2 A	cURus
23	28	X Capacitor	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	MPX	275V, 0.22µF, 110°C	cURus
			SHENZHEN SURONG CAPACITORS CO LTD	MPX/MKP	280V, 0.22µF, 100°C	cURus
23	29	Relay(RLY2)	XIAMEN HONGFA	JZC-32F	250V, 5A	cURus
				HF32F	250V, 5A	cURus
23	30	Relay(RLY1)	XIAMEN HONGFA	JQX 62F	250V, 16A	cURus
				HF62F	250V, 16A	cURus
23	31	Inductance	Foshan Shunde Santak Electronic Technology Co Ltd	UU9.8-20mH	20mH	NR
23	32	Transformer	Foshan Yiyuan Shengte Electronic Co Ltd	EF20	Input: 110-240VAC Output: 12V, 1A. Include item 32a to 32e. See illustration 8.1 for details.	NR
23	32a	Bobbin (not shown)	CHANG CHUN PLASTICS CO LTD	T375J	V-0, 150 °C, thinkness 1.5mm.	cURus
23	32b	Winding wire (not shown)	Various	Various	130 °C	UR
23	32c	Multi-layer Insulated wire (not shown)	ZHUHAI WEIHAN WIRE CO LTD	TIW-B	130 °C	UR
23	32d	Insulation tube(not shown)	FLUOTECH INDUSTRIAL (HUIZHOU) CO LTD	TFL	VW-1, 200 °C	UR
23	32e	Insulation tape (not shown)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT	130 °C, Yellow	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]
23	33	Y Capacitor	JYH HSU (JEC) ELECTRONICS LTD	JD	2200 pF, 400V, 125°C	cURus
			SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	CE	2200 pF, 400V, 125°C	cURus
23	34	Optical Isolator	BRIGHT LED ELECTRONICS CORP	BPC-817	6000 VAC	cURus
27	35	Control Board Assembly	Fosha hangxi Electric Co., Ltd.	BJ-MWI12-Power-01	Consist of item 24, 36~42.	NR
27	36	X Capacitor	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	MPX	X2, 275 V, 0,22µF, 110°C.	cURus
27	37	Fuse	DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932	250 V, 2A, 8.5 x 4 x 8.	cURus
27	38	Varistor	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR10561	560V, 105°C.	cURus
27	39	Quick Connecter	Various	Various	At least rated V-1, suitable for 18-20 AWG wire connect.	cURus
27	40	Relay (RLY2, RLY3)	XIAMEN HONGFA	JZC-32F	5A, 250VAC	cURus
				HF-32F	5A, 250VAC	cURus
27	41	Relay (RLY1)	XIAMEN HONGFA ELECTROACOUSTIC CO LTD	JQX 62F	16A, 250VAC	cURus
				HF62F	16A, 250VAC	cURus
27	42	Power Supply Unit	MEAN WELL ENTERPRISES CO LTD	IRM-20-12	Input: 100-240VAC, 50/60Hz, 0.6A. Output: 12VDC, 1.8A, LPS.	cURus
30	43	Switching Power Unit	Foshan City Qintang Electronic Technology Co.,Ltd	BEJ-HJG-POWER	Input: 115-127VAC, 60Hz; Output: 12VDC, 2.0A. Consist of item 44~ 57. For all models.	NR

4.0 Critical Components						
# Photo	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
30	44	Optical Isolator	LITE-ON TECHNOLOGY CORP	LTV-817	Isolation voltage: 5300 Vrms.	cURus
			EVERLIGHT ELECTRONICS CO LTD	EL817	Isolation voltage: 5000 Vrms.	cURus
			SHENZHEN ORIENT COMPONENTS CO LTD	ORPC-817x	Isolation voltage: 5000 Vrms.	cURus
30	45	Y Capacitor (CY1, CY2)	DONGGUAN CITY DERSONIC ELECTRONIC CO LTD	CD	400 V, 1000 pF, 125°C.	cURus
			JYH HSU (JEC) ELECTRONICS LTD	JD Series	400 V, 1000 pF, 125°C.	cURus
			DONG GUAN AJC INDUSTRIAL CO LTD	JT	400 V, 1000 pF, 125°C.	cURus
30	46	High-frequency Transformer	Foshan Shunde Dong Yu Hui Electronics Co., Ltd.	EE25 12V2A	Input: 85-265VAC; Output: 12VDC, 2A. Include item 46a to 46d. See illustration 8.2 for details.	NR
30	46a	Bobbin (not shown)	CHANG CHUN PLASTICS CO LTD	T375J	V-0, 150 °C, thinkness 1.5mm.	UR
30	46b	Winding wire (not shown)	Various	Various	130 °C	cURus
30	46c	Multi-layer Insulated wire	ZHUHAI WEIHAN WIRE CO LTD	TIW-B	130 °C	UR
30	46d	Insulation tape (not shown)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT	130 °C, Yellow	cURus
30	47	Bridge Rectifiers	LESHAN SHARE ELECTRONIC CO LTD	ABS210	VDC=1000V, If(av)=2A	UR
			HY ELECTRONIC (CAYMAN) LTD TAIWAN BRANCH	ABS210	VDC=1000V, If(av)=2A	UR
			LITE-ON SEMICONDUCTOR CORP	ABS20M	VDC=1000V, If(av)=2A	UR
30	48	Inductance (LF1)	Foshan Shunde Dong Yu Hui Electronics Co., Ltd.	UU9.8-1683	30mH	NR

4.0 Critical Components

# Photo	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
30	49	X Capacitor(MC1)	GUANGDONG FENGMING ELECTRONIC TECH CO LTD	MKP-X2	275VAC, 0.22 uF, 105°C.	cURus
			DAIN ELECTRONICS CO LTD	MPX	275VAC, 0.22 uF, 110°C.	cURus
			SHENZHEN SURONG CAPACITORS CO LTD	MPX	280VAC, 0.22 uF, 100°C.	cURus
				MKP	280VAC, 0.22 uF, 100°C.	cURus
30	50	Varistor	HONGZHI ENTERPRISES LTD	HEL10D471K	470VAC, 105°C.	cURus
			BESTBRIGHT ELECTRONICS CO LTD	10D471K	470VAC, 105°C.	cURus
			SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	10D471K	470VAC, 105°C.	cURus
30	51	Fuse	DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932	250VAC, 2A.	cURus
			XC ELECTRONICS (SHENZHEN) CORP LTD	5TE	250VAC, 2A.	cURus
			HONG HU BLUELIGHT ELECTRONIC CO LTD	6ET	250VAC, 2A.	cURus
30	52	Relay (K2, K3)	XIAMEN HONGFA ELECTROACOUSTIC CO LTD	JZC-32F series	250VAC, 5A. One or two may be used.	cURus
				HF-32F series	250VAC, 5A. One or two may be used.	cURus
30	53	Relay (K1)	XIAMEN HONGFA ELECTROACOUSTIC CO LTD	JQX 62F series	250VAC, 16A.	cURus
				HF62F series	250VAC, 16A.	cURus
30	54	Quick Connecter	Various	Various	At least rated V-1, suitable for 18-24 AWG wire connect.	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]
30	55	X Capacitor (C20) (optional)	GUANGDONG FENGMING ELECTRONIC TECH CO LTD	MKP-X2	275VAC, 0.1 uF, 105°C.	cURus
			DAIN ELECTRONICS CO LTD	MPX	275VAC, 0.1 uF, 110°C.	cURus
			SHENZHEN SURONG CAPACITORS CO LTD	MPX	280VAC, 0.1 uF, 100°C.	cURus
				MKP	280VAC, 0.1 uF, 100°C.	cURus
30	56	Optical Isolator (U7) (optional)	LITE-ON TECHNOLOGY CORP	MOC3063	Isolation voltage: 5000 Vrms.	cURus
31	57	PCB	Various	Various	V-0, 130°C, thickness: 1.6 mm, meet UL796.	cURus
19b	58	Electromagnetic Valve	ZHEJIANG SANHUA INTELLIGENT CONTROLS CO LTD	KMV432	115-127 VAC, 50/60 Hz, R134a/R600a, 1.8 Mpa. For model JC-115DR.	cURus
34	59	Switching Power Unit	Foshan City Qintang Electronic Technology Co.,Ltd	DQT-POWER	Input: 115-127VAC, 60Hz; Output: 12VDC, 1.0A, class 2. Consist of item 60~ 70. For all models except JC-115DR.	NR
34	60	Fuse (F1)	Dongguan Better Electronics Technology Co., Ltd.	932	250VAC, 2A.	cURus
			XC Electronics（Shen Zhen） Corp.,Ltd.	5TE	250VAC, 2A.	cURus
34	61	Varistor	ShanTou HIGH-NEW ZONE SONGTIAN ENTERPRISE CO.,LTD	10D471K	Rated 300VAC, Vn=470VAC, ambient: -40-125°C.	cURus
			Various	Various	Rated 300VAC, Vn=470VAC, ambient: -40-105°C or above.	cURus
34	62	X Capacitor (MC1)	GUANGDONG FENGMING ELECTRONIC TECH CO LTD	MKP-X2	X2 capacitor, rated 0.1uF, 275VAC, 105°C.	cURus
			Various	Various	X2 capacitor, rated 0.1uF, at least 275VAC, 100°C.	cURus
34	63	Inductance (LF1)	Foshan Shunde Dong Yu Hui Electronics Co., Ltd.	UU9.8-1683	30mH	cURus
34	64	Quick Connector	Various	Various	At least rated V-1, suitable for 18-24 AWG wire connect.	cURus
34	65	Relay (K1)	XIAMEN HONGFA ELECTROACOUSTIC CO LTD	JQX 62F series	250VAC, 16A.	cURus
				HF62F series	250VAC, 16A.	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]
34	66	Relay (K2)	XIAMEN HONGFA	JZC-32F series	250VAC, 5A.	cURus
				HF-32F series	250VAC, 5A.	cURus
34	67	Y Capacitor (CY1, CY2)	DONGGUAN CITY DERSONIC ELECTRONIC CO LTD	CD	Y2 capacitor, rated 400 V, 1000 pF, 125°C.	cURus
			Various	Various	Y2 capacitor, rated 1000 pF, minimum 400 V, 1000 pF, 125°C.	cURus
34	68	High-frequency Transformer	Foshan Shunde Dong Yu Hui Electronics Co., Ltd.	E19(5+2)	Input: 85-265VAC, Output: 12V, 1A. Include items 68a to 68f. See illustration 8.3 for details.	NR
34	68a	Bobbin (not shown)	CHANG CHUN PLASTICS CO., LTD.	T375HF	PMC, BK color, V-0, 15°C, thinkness 1.0 mm.	UR
34	68b	Primary Winding (not shown)	WUZHOU TOREAL COPPER CO LTD	2UEW/155	Polyurethane coated copper wire, ANSI type MW MW 79-C, 155°C.	UR
			Various	Various	Polyurethane coated copper wire, ANSI type MW MW 79-C, 155°C.	UR
34	68c	Secondary Winding (not shown)	Huizhou Huaying Electronic Technology Co Ltd	MIW-B	Triple Insulated Wire, 130 °C.	UR
34	68d	Insulation tape (not shown)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT	130 °C, Yellow.	UR
34	68e	Varnishes (not shwon)	ZHUHAI CHANGXIAN NEW MATERIALS TECHNOLOGY CO LTD	E962	130°C.	UR
34	68f	Tube (not shown)	Various	Various	Rated 150V, 200°C, VW-1.	UR
35	69	PCB	Various	Various	V-0, 130°C, thickness: 1.6 mm, meet UL796.	cURus
35	70	Rectifier Bridge	HY ELECTRONIC (CAYMAN) LTD TAIWAN BRANCH	ABS210	Bridge rectifier modules with 2500V isolations, rated 1000V, 1A.	cURus

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) “Various“ means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

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

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

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

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

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

1. Spacing - In primary circuits, 1.2 mm minimum clearance and 2.5 mm minimum creepage distance are maintained for basic insulation, 1.2 mm minimum clearance and 2.0 mm minimum creepage distance are maintained for function insulation, 1.2 mm minimum clearance and 2.5 mm minimum creepage distance are maintained for supplementary insulation, 1.5 mm minimum clearance and 5 mm minimum creepage distance are maintained for reinforced insulation.
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, star washers, 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 metal or non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord.
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.
8. Schematics - Refer to Illustration 1, 4.1, 4.1.1, 4.1.2, 4.2, 4.3.1~4.3.4, 4.3.5, 4.3.6 for schematics requiring verification during Field Representative Inspection Audits.
9. Markings - The product is marked on a labeling system as described in item no. 5 of Section 4.0 as follows:
   • Brand name or applicant's name;
   • Model number;
   • Electrical ratings;
   • Type and mass of refrigerant
   • Manufacturing date or date code
   Refer to Illustration No. 1, 1.1 for the layout.
10. Cautionary Markings - The product is marked on a labeling system as described in item no. 6 of Section 4.0 or by molding. Refer to Illustration No. 2.1-2.3 for the layout.
11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.
    Refer to Illustration No(s). 3.1 to 3.3 for details.
12. Transformer - Supplier records must be provided that indicate the received shipment of transformers (section 4.0, item 32, 46, 68) was constructed as indicated in Illustrations 8.1 to 8.3. These records must be available at the factory for inspection on every received shipment.

7.0 Illustrations

Illustration 1 - Marking

Note: Also represent other models except relevant model number, ratings and circuit diagram.

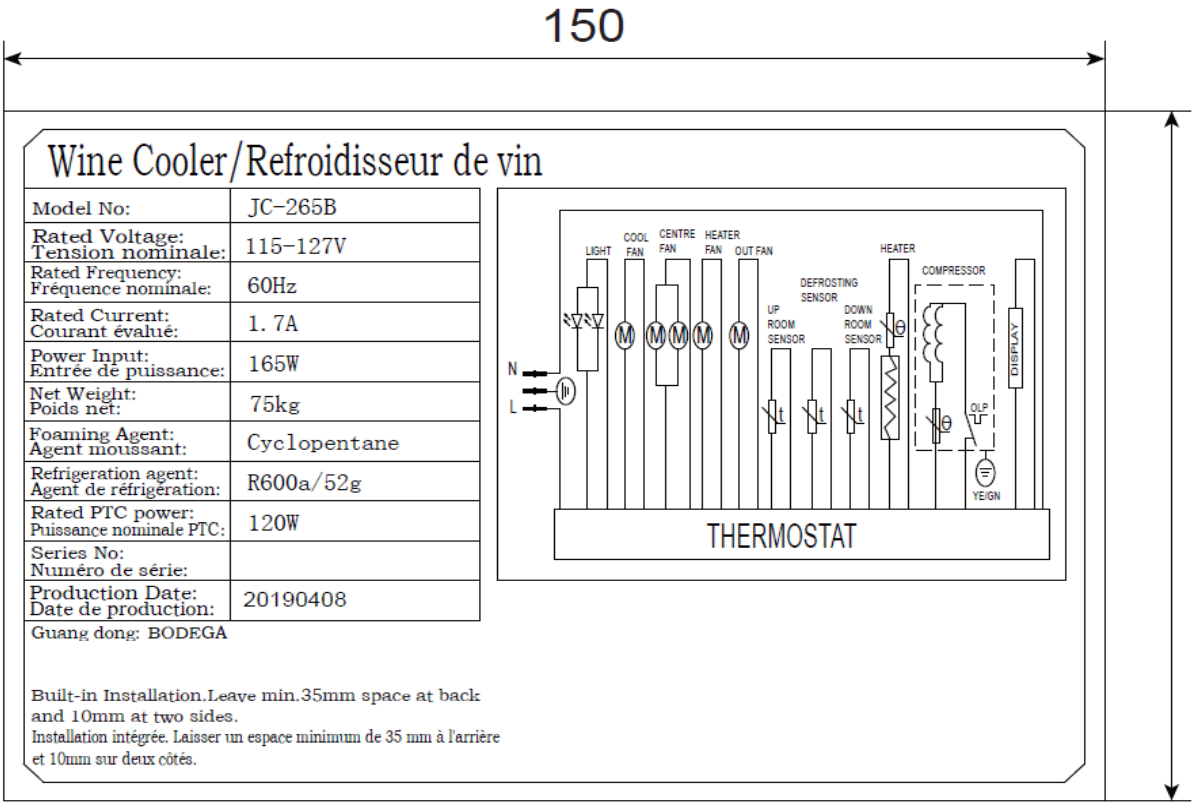
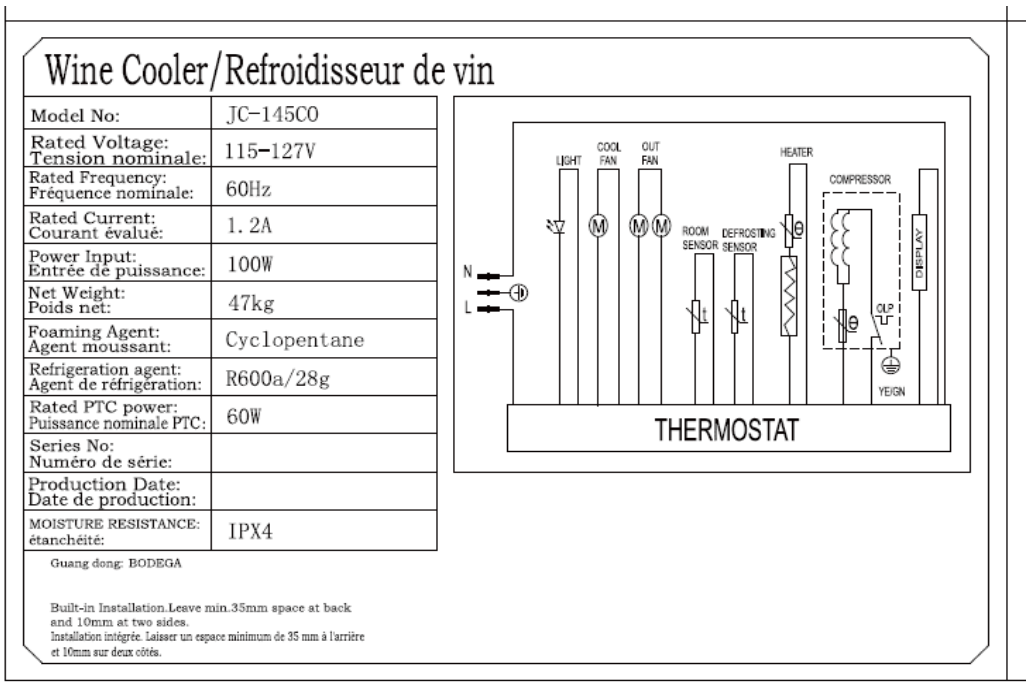


Illustration 1.1 - Marking for JC-145CO



7.0 Illustrations

Illustration 2.1 - Marking for flammable insulation blowing gas type

This marking letter height at least 40mm, located at rear side of refrigerator, near compressor compartment.

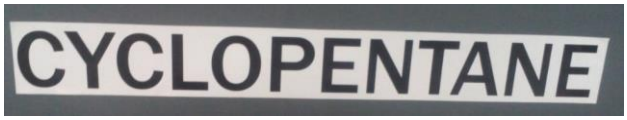


Illustration 2.2 - Warning marking

Word height at least 6.4mm for Warning marking, triangle warning marking height at least 15mm.

1) Near machine compartment:

 DANGER – RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. TO BE REPAIRED ONLY BY TRAINED SERVICE PERSONNEL. DO NOT PUNCTURE REFRIGERANT TUBING.	 DANGER – RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. CONFIER LES RÉPARATIONS À UN TECHNICIEN SPÉCIALISÉ. NE PAS PERFORER LA TUBULURE CONTENANT LE FRIGORIGÈNE.

CAUTION – Risk Of Fire Or Explosion. FLAMMABLE REFRIGERANT Used. Consult Repair Manual/Owner's Guide Before Attempting To Service This Product. All Safety Precautions Must be Followed.	ATTENTION Risque d'incendie ou d'explosion. Frigorigène inflammable utilisé. Consulter le manuel de réparation/manuel du propriétaire avant d'entreprendre l'entretien de ce produit. Toutes les mesures de sécurité doivent être respectées.

2) on the exterior:

CAUTION – Risk Of Fire Or Explosion. Dispose Of Properly In Accordance With The Applicable Federal Or Local Regulations. FLAMMABLE REFRIGERANT Used.	ATTENTION Risque d'incendie ou d'explosion. Éliminer convenablement conformément à la réglementation fédérale ou locale Frigorigène inflammable utilisé.

CAUTION – Risk Of Fire Or Explosion Due To Puncture Of Refrigerant Tubing; Follow Handling Instructions Carefully. FLAMMABLE REFRIGERANT Used.	ATTENTION La perforation de la conduite de frigorigène peut entraîner un incendie ou une explosion. Suivre avec soin les instructions fournies. Frigorigène inflammable utilisé.

7.0 Illustrations

Illustration 2.3 - Warning marking
On the key and lock (for model equipped with lock)

A lock key shall be permanently marked with the word "CAUTION: To Prevent A Child From Being Entrapped, Keep Out Of Reach Of Children And Not In The Vicinity Of Freezer (Or Refrigerator)" or equivalent statement:

CAUTION - To Prevent A Child From Being Entrapped, Keep Out Of Reach Of Children And Not In The Vicinity Of Freezer Or Refrigerator.	ATTENTION Afin de prévenir qu'un enfant ne soit emprisonné, garder hors d'atteinte des enfants et loin du congélateur ou du réfrigérateur.

Note: A marking calling attention to the notice above shall be placed over the key slot of the lock or immediately adjacent to it. This marking may be removable.

7.0 Illustrations

Illustration 3.1 - Important Instruction

WARNING

- To prevent damaging the door gasket, make sure to have the door all the way opened when pulling shelves out of the rail compartment.
- The appliance must be positioned so that the plug is accessible. Release the electric cord. Move your cabinet to its final location. Do not move your Cabinet while loaded with wine. You might distort the body. The wine cellar should be installed in a suitable place in order to avoid touching the compressor with hand.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- If the supply cord is damaged, it must be replaced by manufacturer of its Service agent or a similarly qualified person in order to avoid a hazard.

PLEASE DON'T TRY TO PLUG INTO OR EXTENSION THE CABLE IN ANY CASE.

IMPORTANT SAFETY INSTRUCTIONS

WARNING	To reduce the risk of fire, electrical shock, or injury when using your appliance, follow these basic precautions:

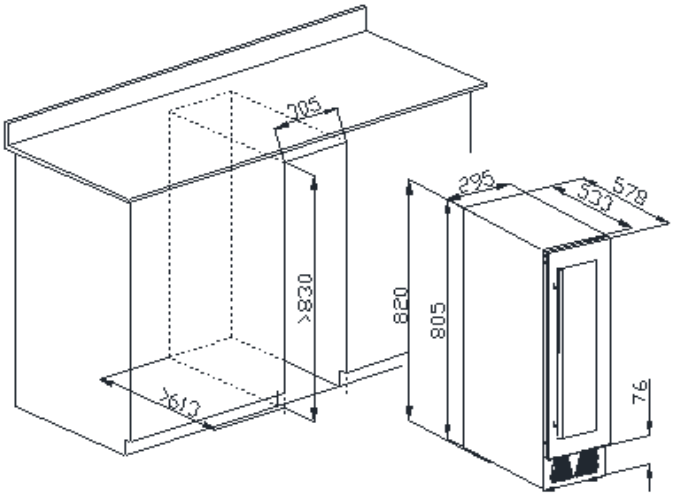
- Read all instructions before using the Wine cooler.
- **DANGER or WARNING:** Risk of child entrapment.
- Child entrapment and suffocation are not problems of the past. Junked or abandoned appliances are still dangerous even if they will "just sit in the garage a few days".
- **Before you throw away your old Wine cooler/Beverage Cooler:** Take off the door. Leave the shelves in place so that children may not easily climb inside.
- Children should be supervised to ensure that they do not play with the appliance.
- Never clean appliance parts with flammable fluids. The fumes can create a fire hazard or explosion.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance. The fumes can create a fire hazard or explosion. Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- WARNING: Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction;
- WARNING: Do not use mechanical devices or other means to accelerate the defrosting process, other than those Recommended by the manufacturer;
- To avoid a hazard due to instability of the appliance, it must be fixed in accordance with the instructions.
- WARNING: Do not damage the refrigerant circuit;
- WARNING: Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.

- **If the refrigerant of these appliances are R600a , Flammable and explosive articles should not be put in or near the cabinet, to avoid the fire or explode caused.**

-Save these instructions-

➢ **Installation specifications for built-in purposes**

JC-58A



7.0 Illustrations

Illustration 3.2 - Important Instruction

INSTALLATION INSTRUCTIONS

- **Before Using Your Wine cooler/Beverage cooler**
  - Remove the exterior and interior packing.
  - Before connecting the Wine cooler/Beverage cooler to the power source, let it stand upright for approximately 2 hours. This will reduce the possibility of a malfunction in the cooling system from handling during transportation.
  - Clean the interior surface with lukewarm water using a soft cloth.
  - This appliance is intended to be used in household and similar applications such as
    – staff kitchen areas in shops, offices and other working environments;
    – farm houses and by clients in hotels, motels and other residential type environments;
    – bed and breakfast type environments;
    – catering and similar non-retail applications.
  - When disposing your appliance, please choose an authorized disposal site.

- **Installation of Your Wine Cooler/Beverage cooler**
  - This appliance is designed to be for free standing installation or built-in (fully recessed) (Refer to sticker location the back of this appliance).
  - **This appliance is intended to be used exclusively for the storage of wine or beverages.**
  - Place your Wine cooler/Beverage cooler on a floor that is strong enough to support it when it is fully loaded. To level your Wine cooler/Beverage cooler, adjust the front leveling leg at the bottom of the Wine cooler/Beverage cooler.
  - This appliance is using flammability refrigerant. So never damage the cooling pipework during the transportation. Locate the Wine cooler/Beverage cooler away from direct sunlight and sources of heat (stove, heater, radiator, etc.). Direct sunlight may affect the acrylic coating and heat sources may increase electrical consumption. Extreme cold ambient temperatures may also cause the unit not to perform properly.
  - Avoid locating the unit in moist areas.
  - Plug the Wine cooler/Beverage cooler into an exclusive, properly installed-grounded wall outlet. Do not under any circumstances cut or remove the third (ground) prong from the power cord. Any questions concerning power and/or grounding should be directed toward a certified electrician or an authorized Products service center.

- **Attention**
  - Store wine in sealed bottles;
  - Do not overload the cabinet;
  - Do not open the door unless necessary;
  - Do not cover shelves with aluminum foil or any other shelf material which may prevent air circulation;
  - Should the Wine cooler/Beverage cooler be stored without use for long periods it is suggested, after a careful cleaning, to leave the door ajar to allow air to circulate inside the cabinet in order to avoid possible formations of condensation, mold or odors.

Before disposal of the appliance.

1. Disconnect the main plug from the main socket.
2. Cut off the main cable and discard it.

	Correct disposal of this product
	This symbol on the product, or in its packaging, indicates that this product may not be treated as household waste. Instead, it should be taken to the appropriate waste collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by the inappropriate waste handling of this product. For more detailed information about the recycling of this product, please contact your local council, your household waste disposal service, or the shop where you purchased the product.

Correct Disposal of this product:

To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

7.0 Illustrations

Illustration 3.3 - Important Instruction

OPERATING YOUR WINE COOLER/BEVERAGE COOLER AND SETTING THE TEMPERATURE CONTROL

FOR
JC-58A/JC-85A/JC-85C/JC-115DR/JC145A/JC-145C/JC-145CO/JC-215A/JC-265A/ JC-375A/JC-425A

➢ **Control System Instruction**

- Power switch : After the unit is power on, press for 3 seconds to turn on or off the unit.
- °C/°F switch: Press °C/°F button to change the temperature display between Celsius and Fahrenheit.
- Temperature setting button : Press before adjust temperature. When press it first time, the display flashes and shows the setting temperature. After 5 seconds it shows the measured interior temperature. Press to increase the setting temperature and press to decrease the setting temperature.
- Display window: 2-digit LED display to show setting temperature or actual interior temperature.
- Light button : Press to turn on or off. When open door, the light will be switched on automatically.
- Key lock function: If there is no any operation with digital control for 3 minutes, it will be locked automatically. Press and in the same time for 3 seconds to unlock.

➢ **Setting The Temperature Controls**

- You can set the temperature as you desire by pushing the "+"or "-"button. When you push the two buttons for the first time, the LED readout will show the original temperature set at previous time.
- The temperature that you desire to set will increase 1°C if you push the"+"button once, on the contrary the temperature will decrease 1°C if you push the "-" button once.
- To view the "set" temperature. (anytime) press and hold the corresponding button for approximately 5 seconds, the "set" temperature will temporarily "flash" in the LED display for 5 seconds.

JC-58A/JC-85A/JC-115DR/JC-145A/JC-145CO/JC-215A/JC-265A/JC-375A/JC-425A : The temperature setting can be adjusted from 5°C to 20°C.
The temperature preset at the factory is 12°C.
JC-85C/JC-145C : The temperature setting can be adjusted from 2°C to 10°C
The temperature preset at the factory is 6°C.

FOR JC-85B/JC-145B/JC-215B/JC-265B/JC-375B/JC425B

➢ **Control System Instruction**

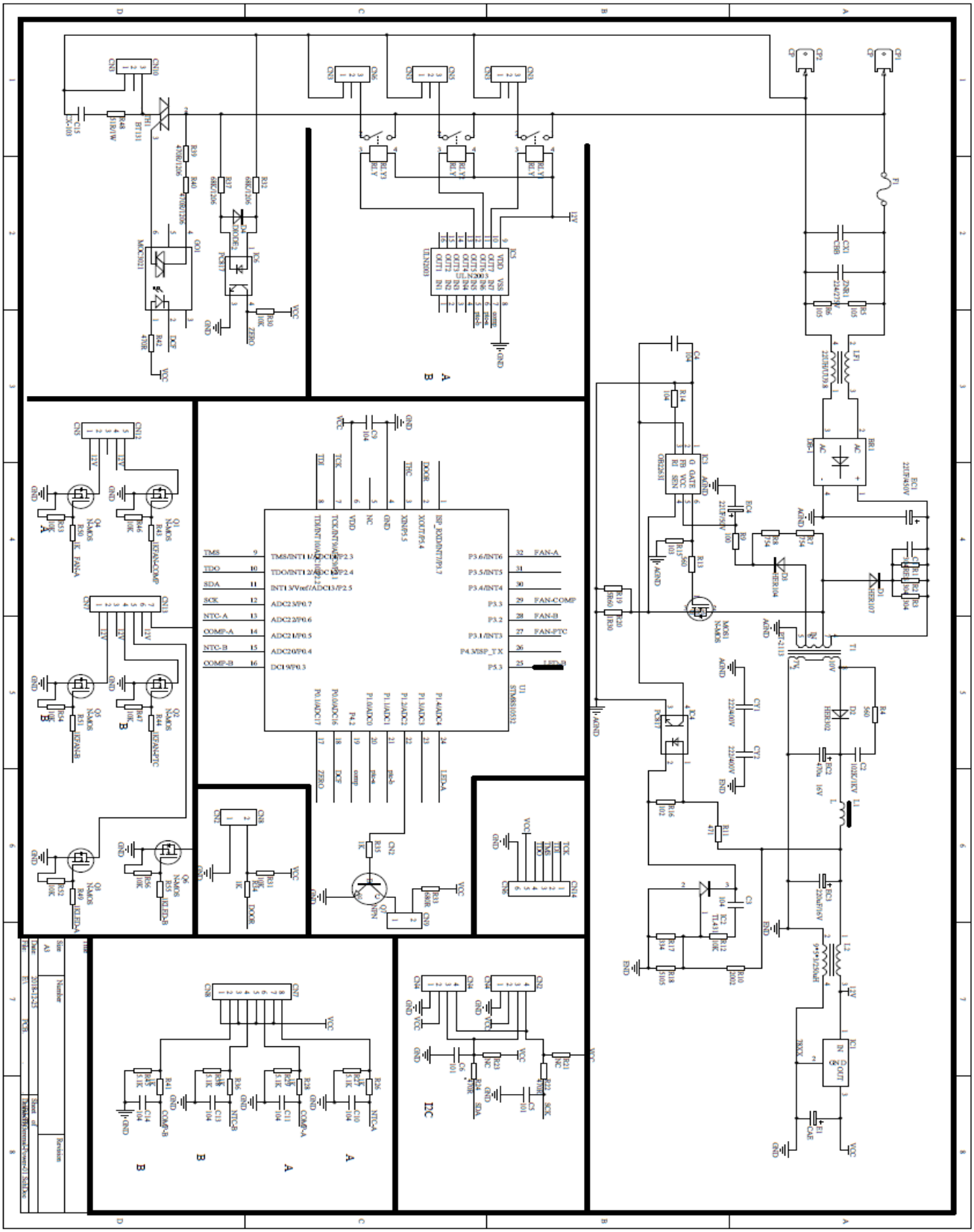
- Power switch : After the unit is power on, press for 3 seconds to turn on or off the unit.
- °C/°F switch: Press °C/°F button to change the temperature display between Celsius and Fahrenheit.
- Temperature setting button : Press before adjust temperature. When press it first time, the display flashes and shows the setting temperature. After 5 seconds it shows the measured interior temperature. Press to increase the setting temperature and press to decrease the setting temperature.
- 2 Display window: 2-digit LED display for each to show setting temperature or actual interior temperature.
- Light button : Press to turn on or off. When open door, the light will be switched on automatically.
- Key lock function: If there is no any operation with digital control for 3 minutes, it will be locked automatically. Press and in the same time for 3 seconds to unlock.

➢ **Setting The Temperature Controls**

- When press the temperature setting button "+" or "-", the system will enter the set up mode of the upper or lower compartment automatically. The LED display will flash and show the setting temperature. After 5 seconds the flash will stop and it will show the actual measured interior temperature.
- Press the button once, the temperature will decrease or increase 1 °C. After stopping pressing the button for 5 seconds, LED figure will stop flash, then revert back to display the setting temperature of the upper or lower compartment.
- After the unit is unplugged, the system will return to default setting temperature, which set by factory. The default setting temperature as below:
- Upper compartment: 6 °C
- Lower compartment: 12 °C
- **Upper compartment:** The temperature setting can be adjusted from 5°C to 12°C.
- **Lower compartment:** The temperature setting can be adjusted from 12°C to 20°C.

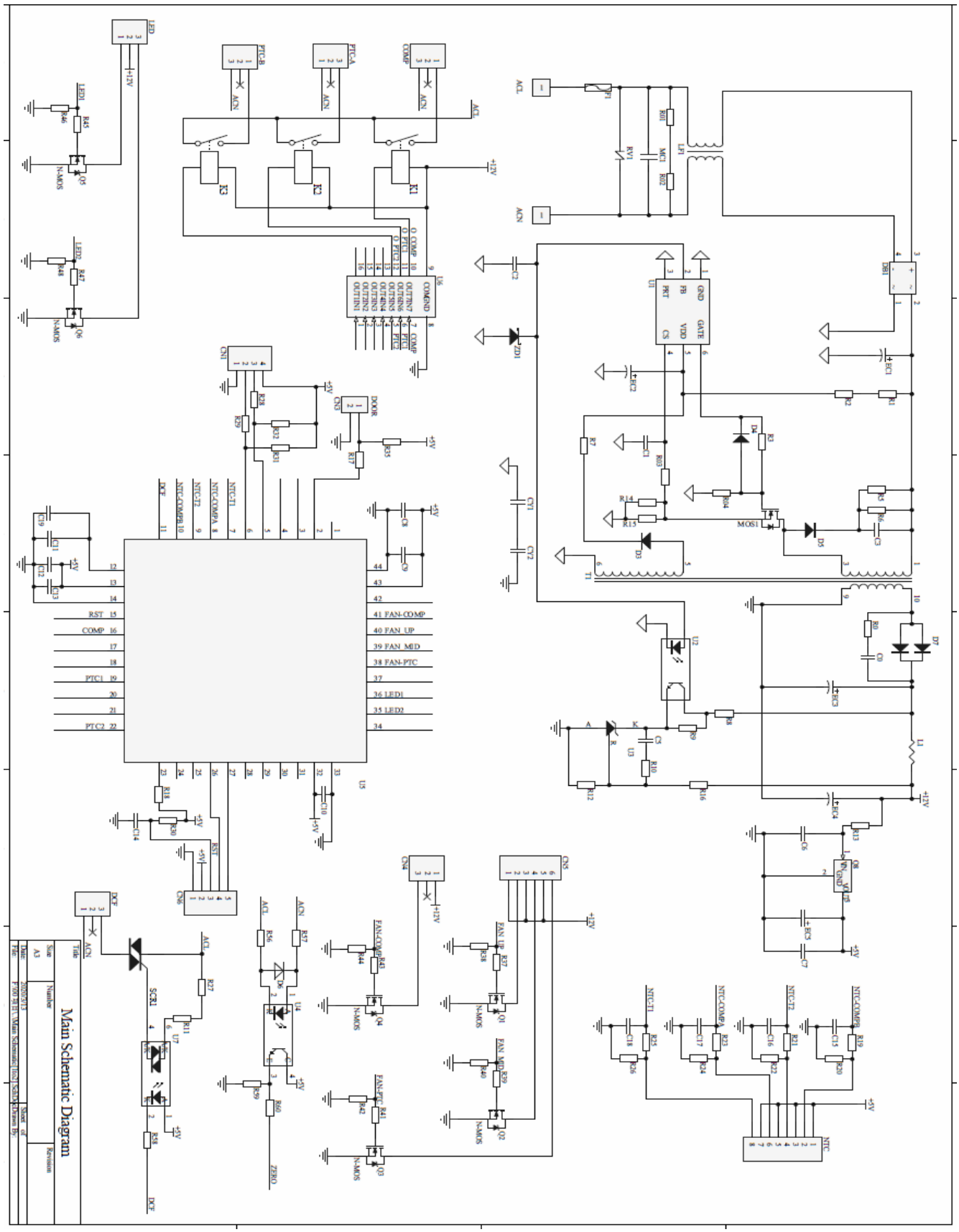
7.0 Illustrations

Illustration 4.1 - Schematic Diagram of Switching Power Unit, model BJ-General-Power-01



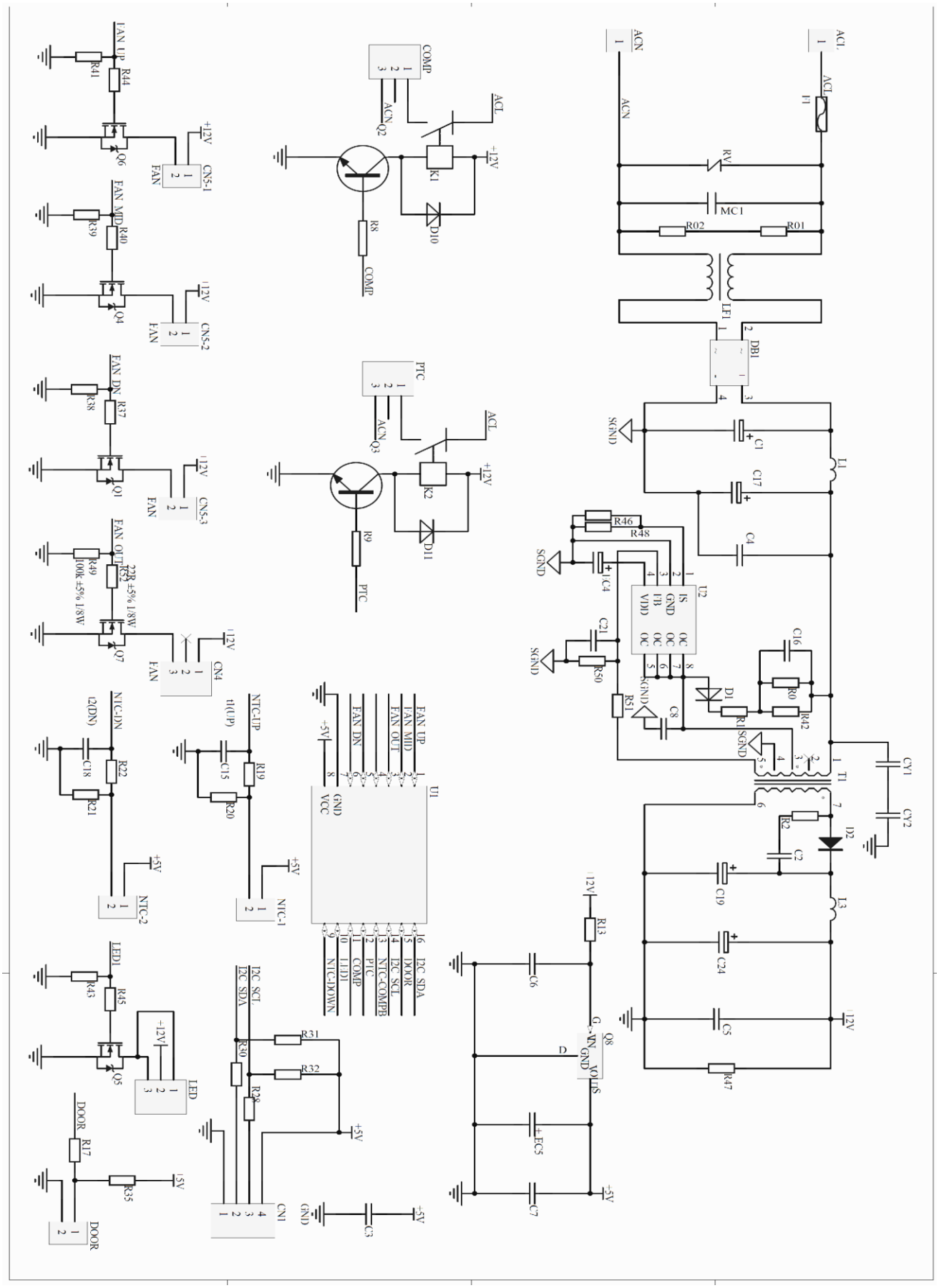
7.0 Illustrations

Illustration 4.1.1 - Schematic Diagram of Switching Power Unit, model BEJ-HJG-POWER.



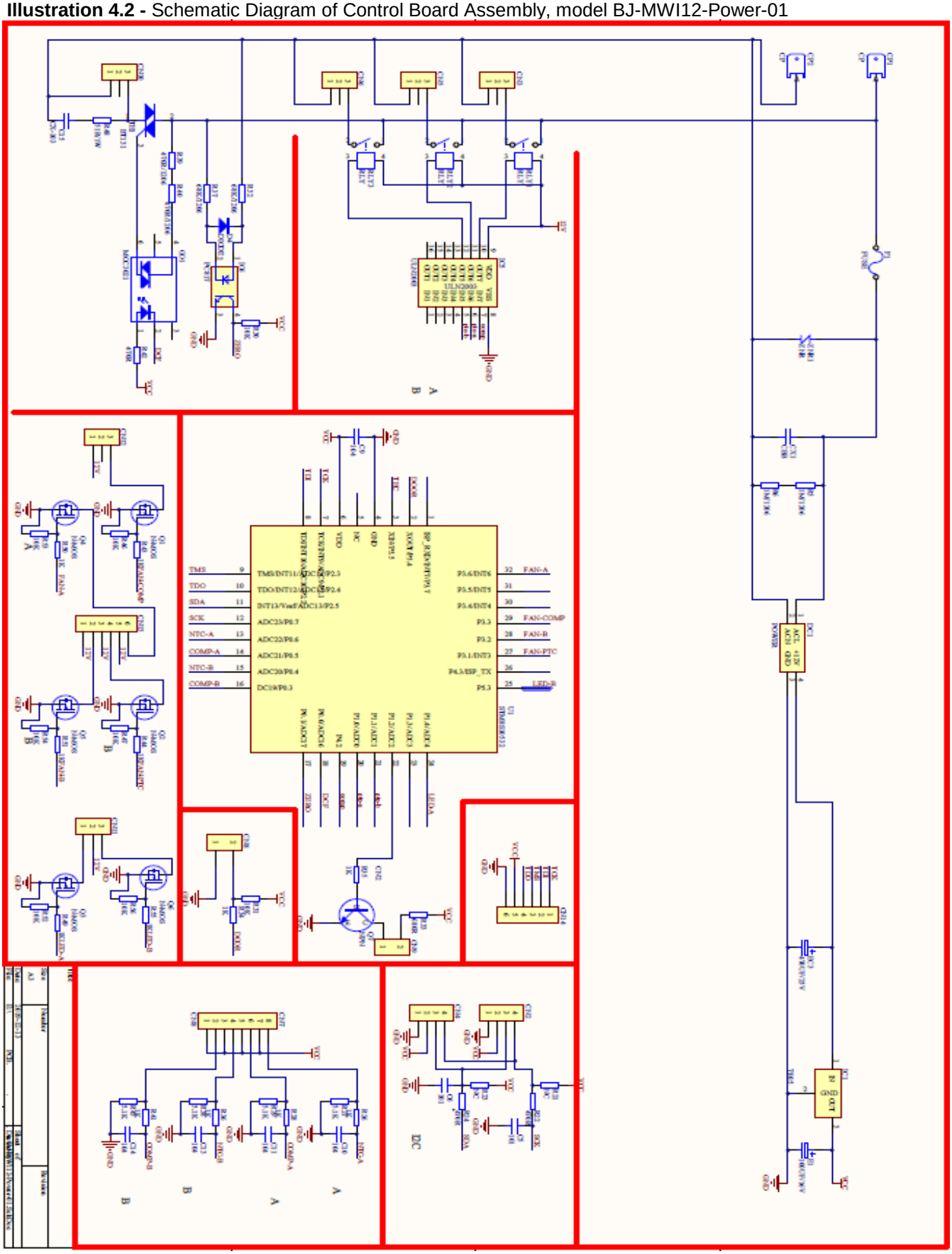
7.0 Illustrations

Illustration 4.1.2 - Schematic Diagram of Switching Power Unit, model DQT-POWER.



7.0 Illustrations

Illustration 4.2 - Schematic Diagram of Control Board Assembly, model BJ-MWI12-Power-01



7.0 Illustrations

Illustration 4.3.1 - Circuit Diagram
For model JC-58A, JC-85A, JC-85C, JC-145A, JC-145C, JC-165A, JC-165C, JC-215A

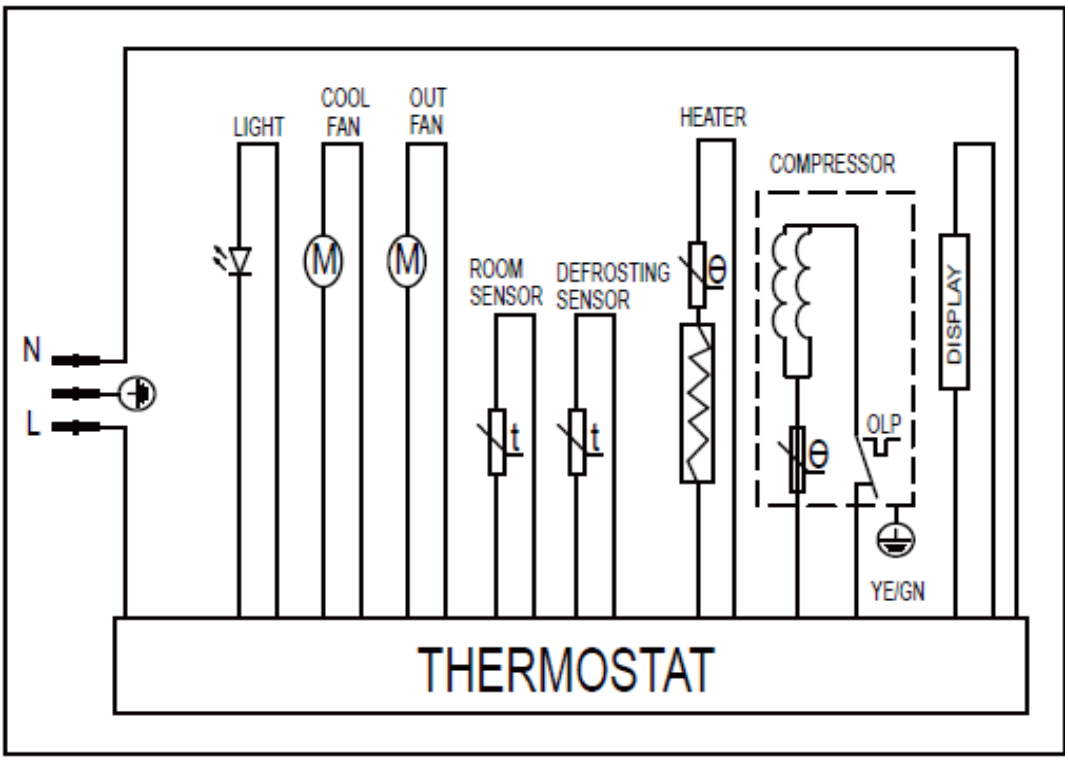
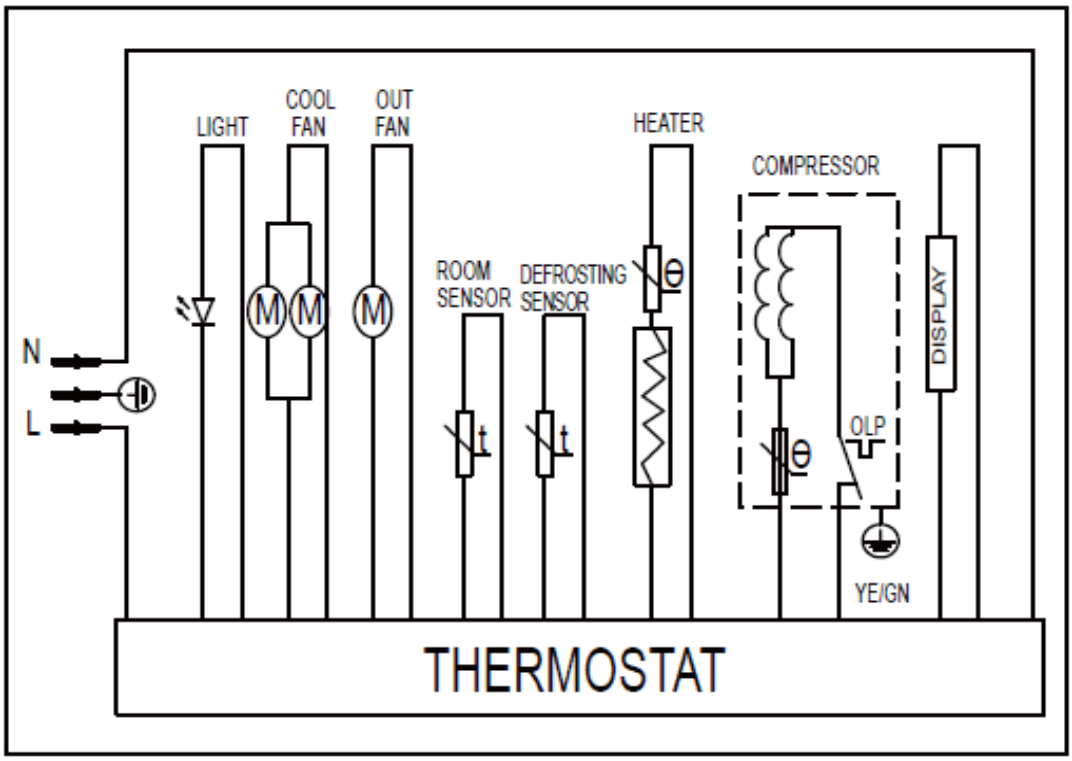


Illustration 4.3.2 - Circuit Diagram
For model JC-265A, JC-425A, JC-375A, JC-425A



7.0 Illustrations

Illustration 4.3.3 - Circuit Diagram
For model JC-85B, JC-145B, JC-165B, JC-215B

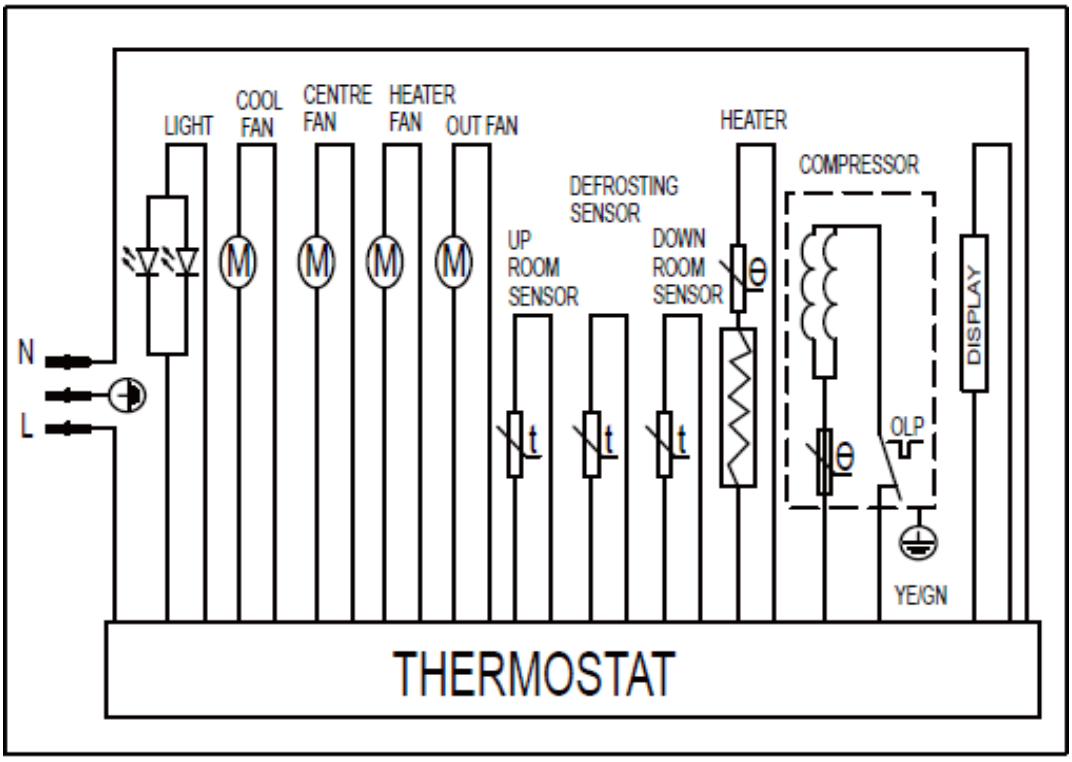
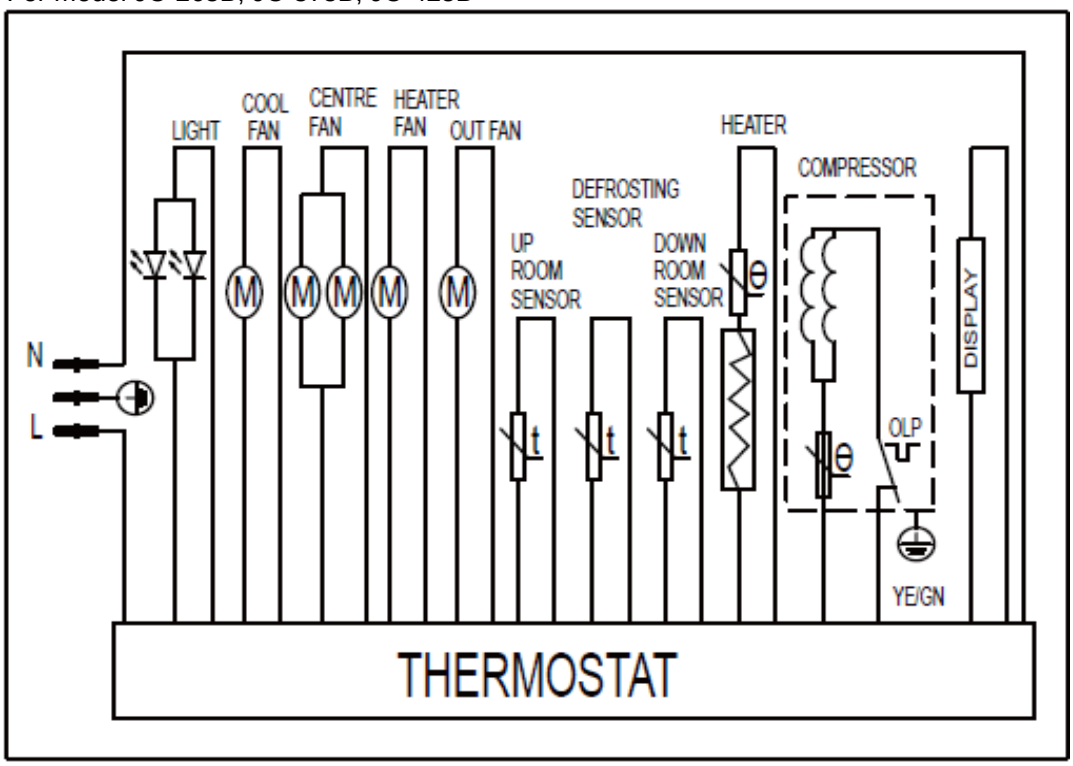


Illustration 4.3.4 - Circuit Diagram
For model JC-265B, JC-375B, JC-425B



7.0 Illustrations

Illustration 4.3.5 - Circuit Diagram
For model JC-115DR.

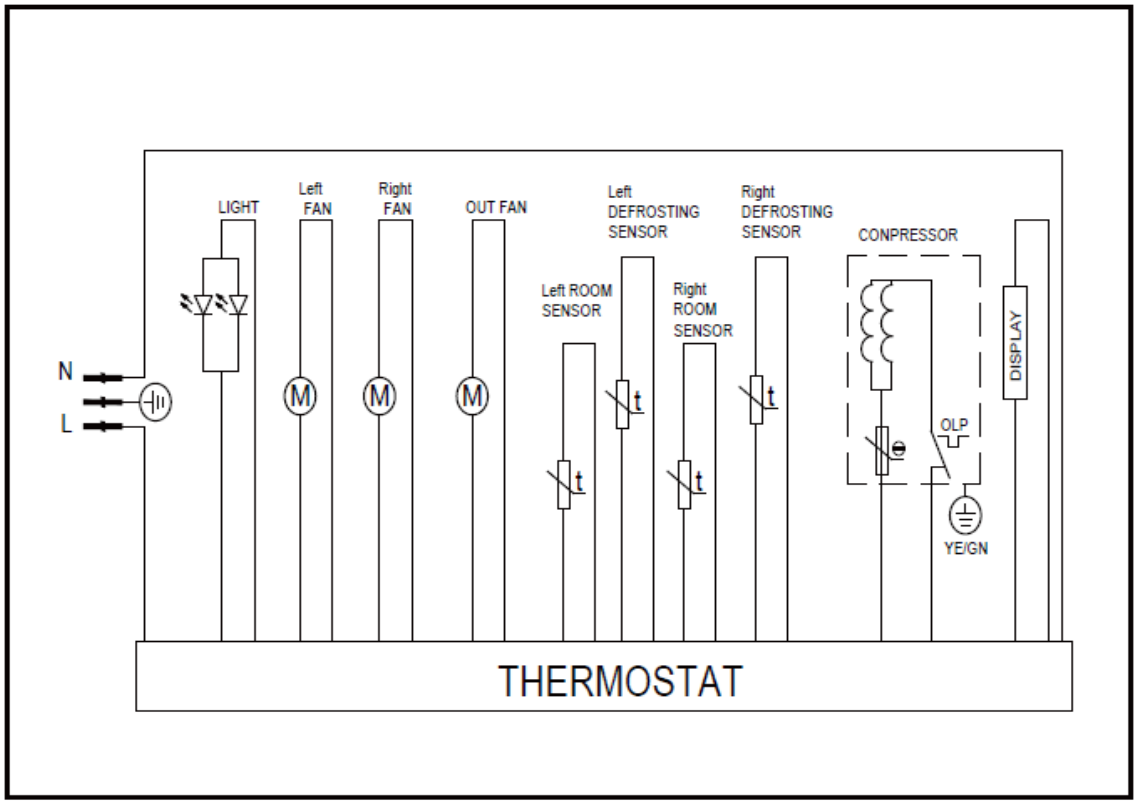
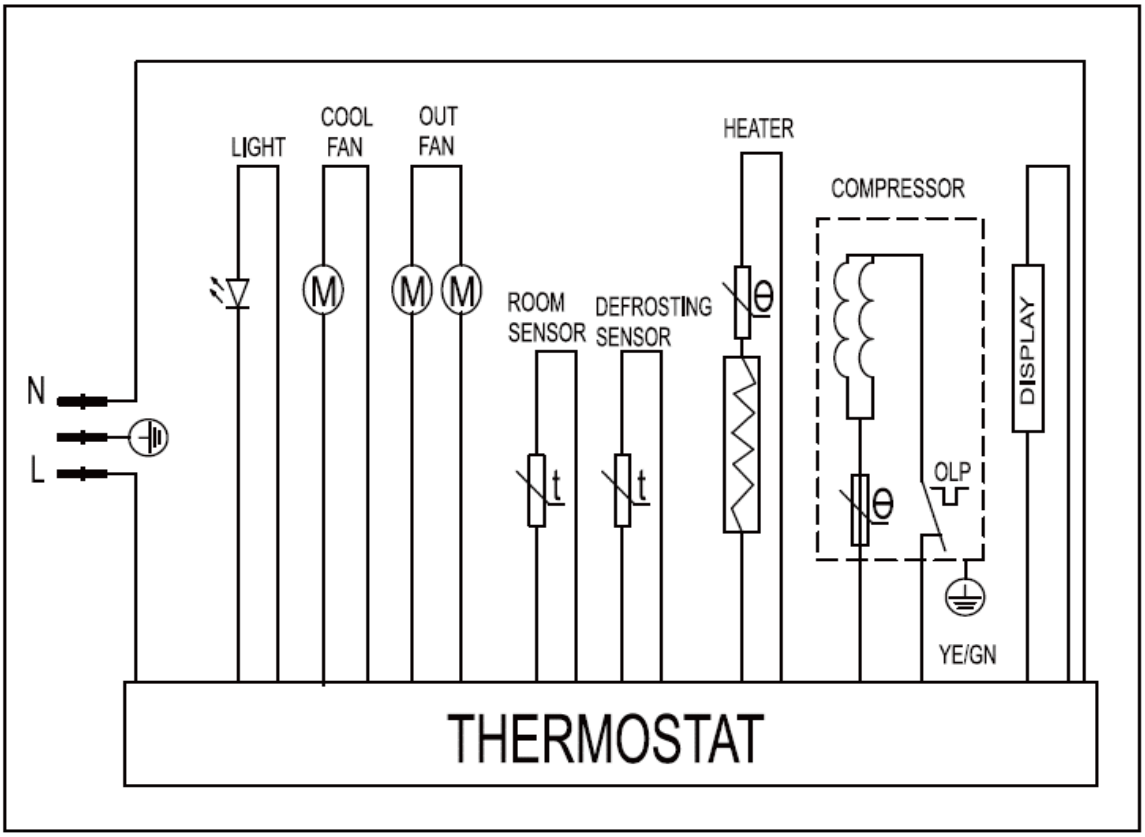
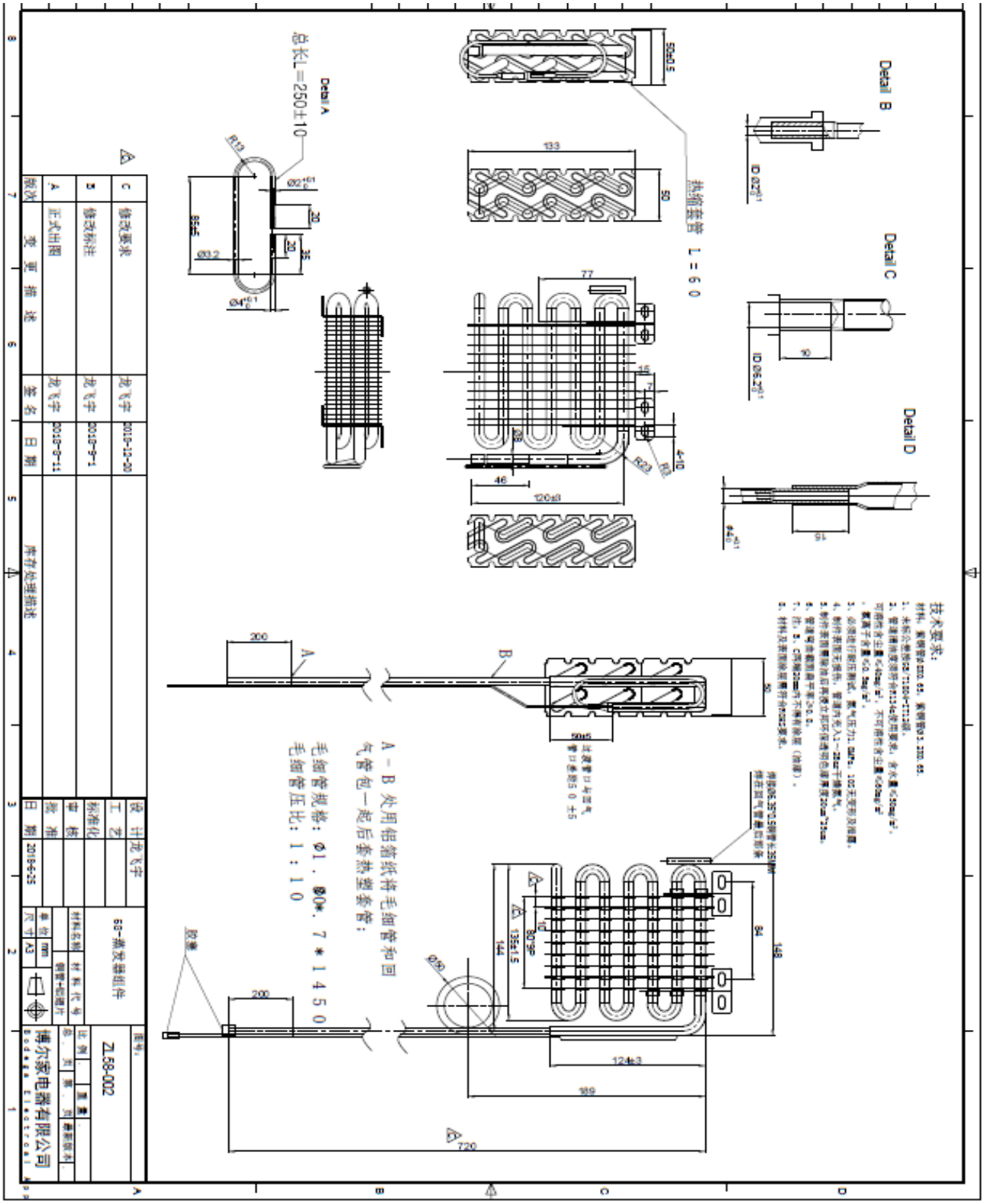


Illustration 4.3.6 - Circuit Diagram
For model JC-145CO.



7.0 Illustrations

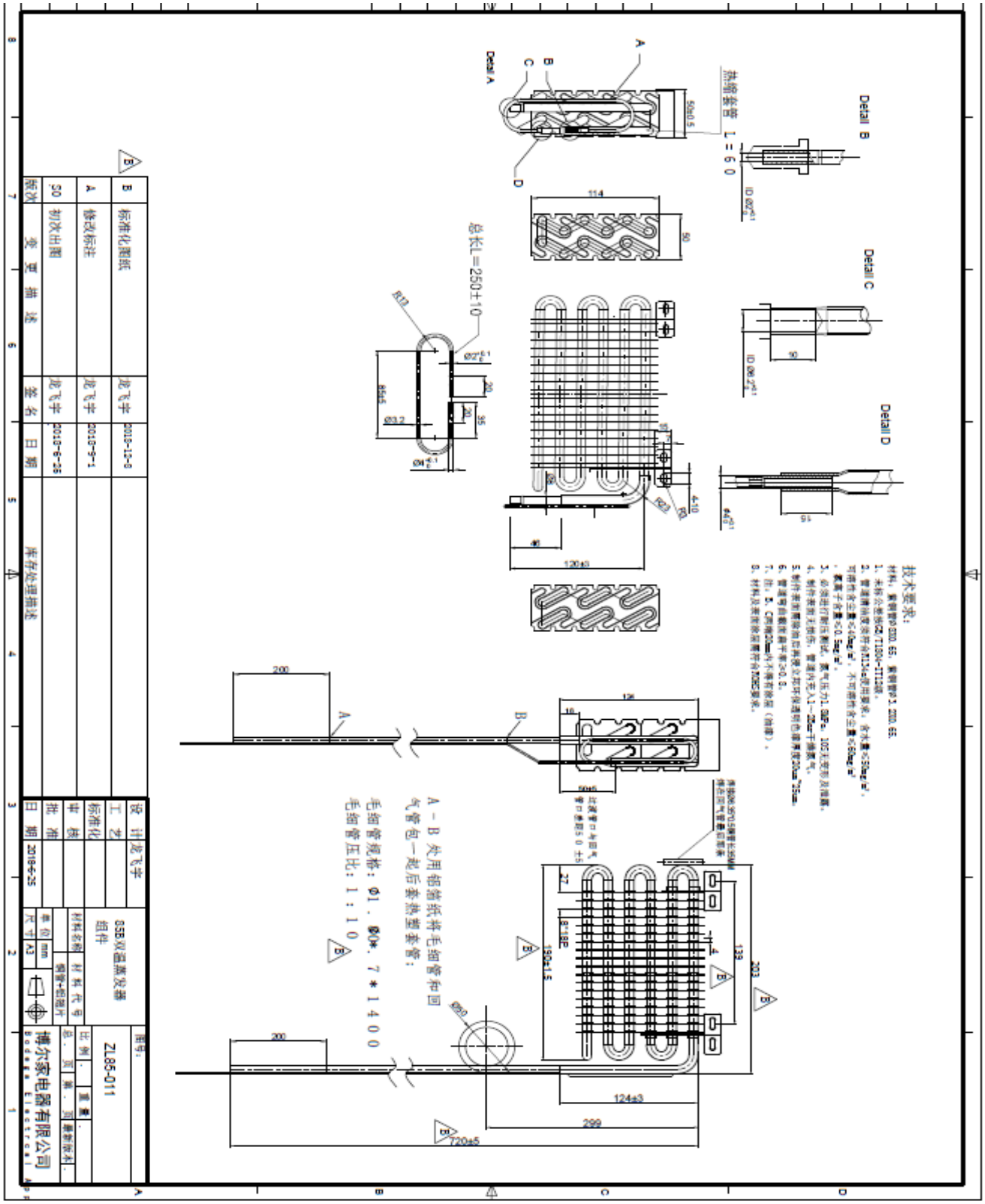
Illustration 5.1 - Specification of evaporator, for JC-58A, JC-115DR.



Note:
JC-115DR has two same evaporator.

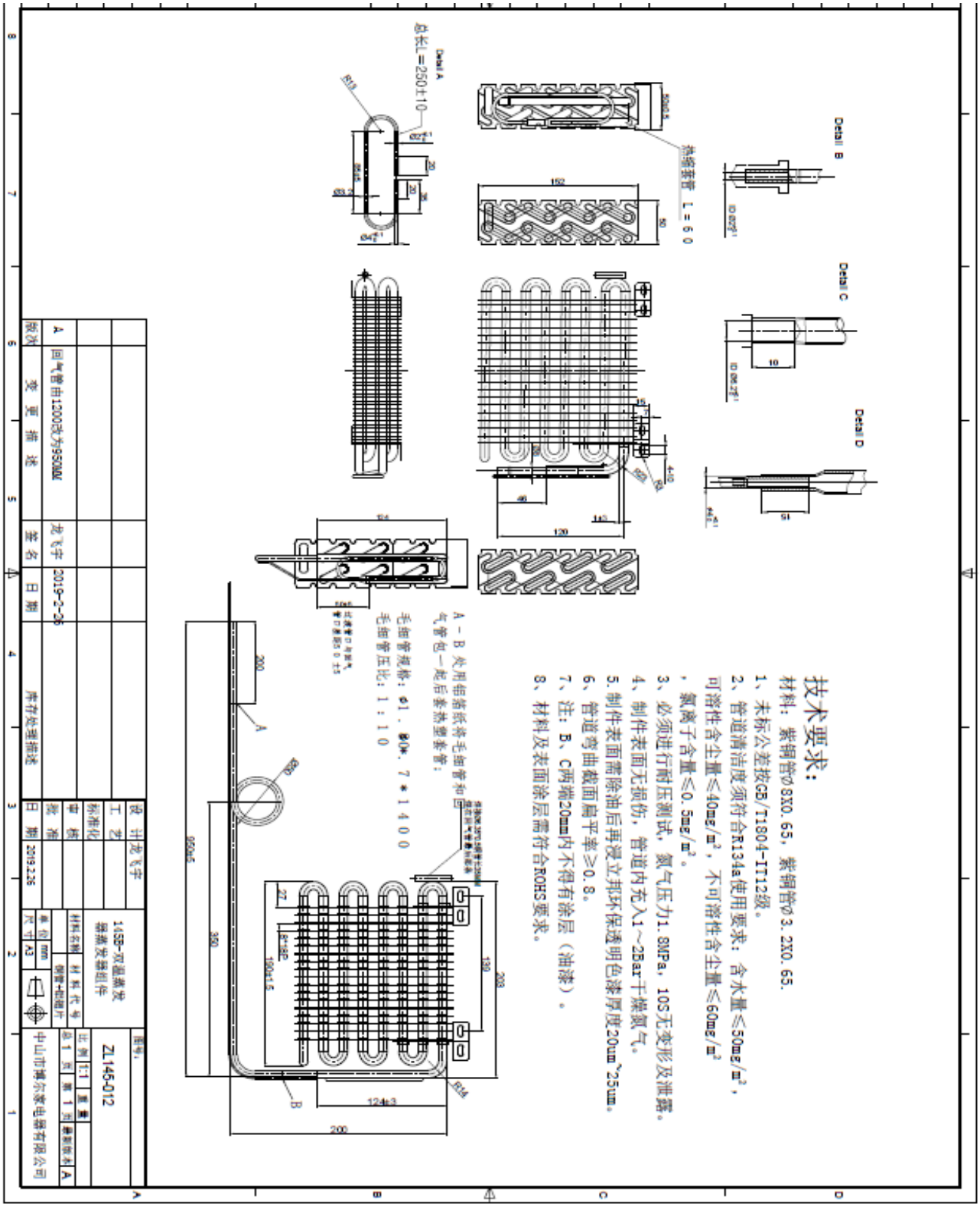
7.0 Illustrations

Illustration 5.2 - Specification of evaporator, for JC-85A, JC-85B, JC-85C



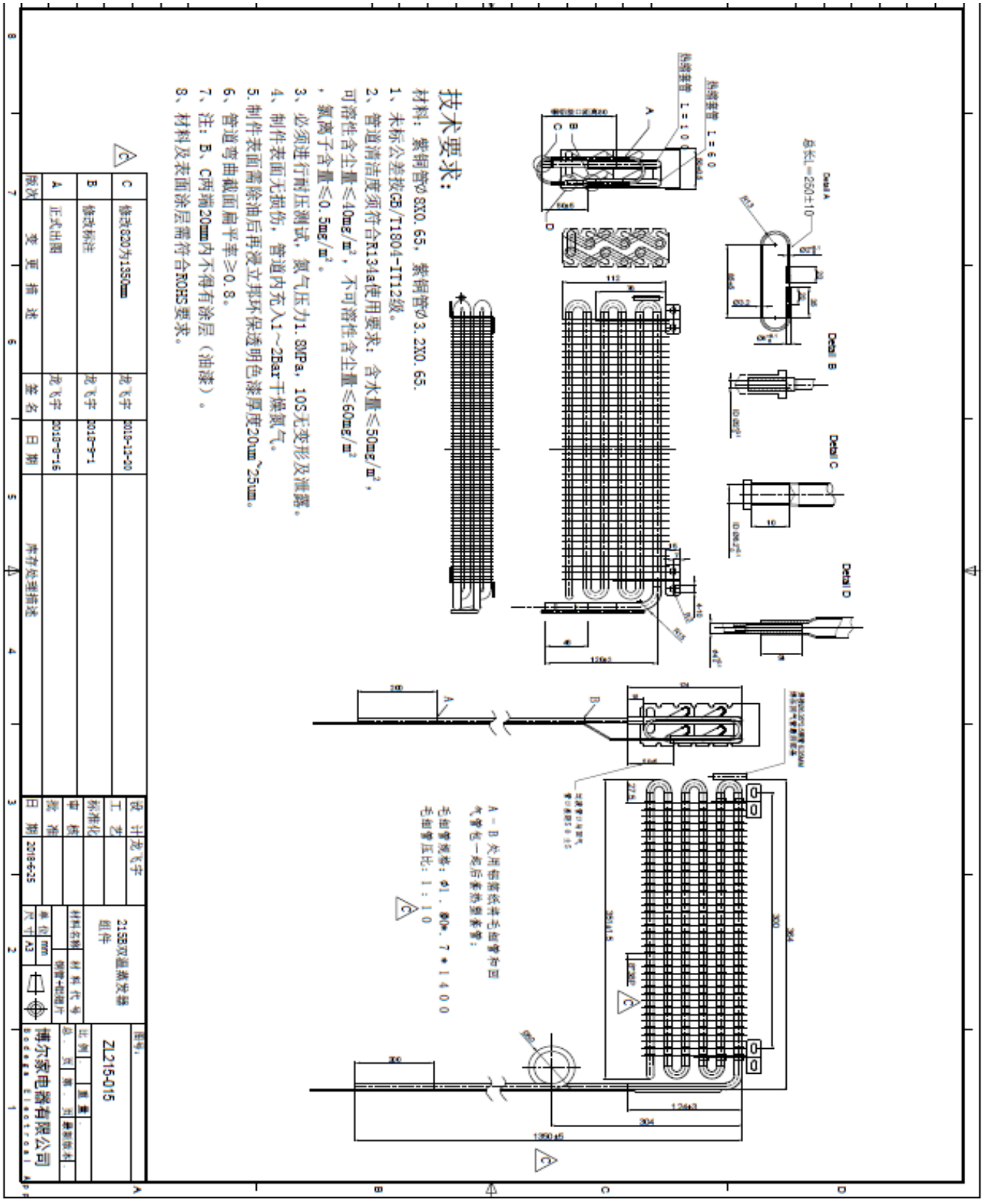
7.0 Illustrations

Illustration 5.3 - Specification of evaporator, for JC-145A, JC145B, JC-145C, JC-145CO, JC-165A, JC165B, JC-165C



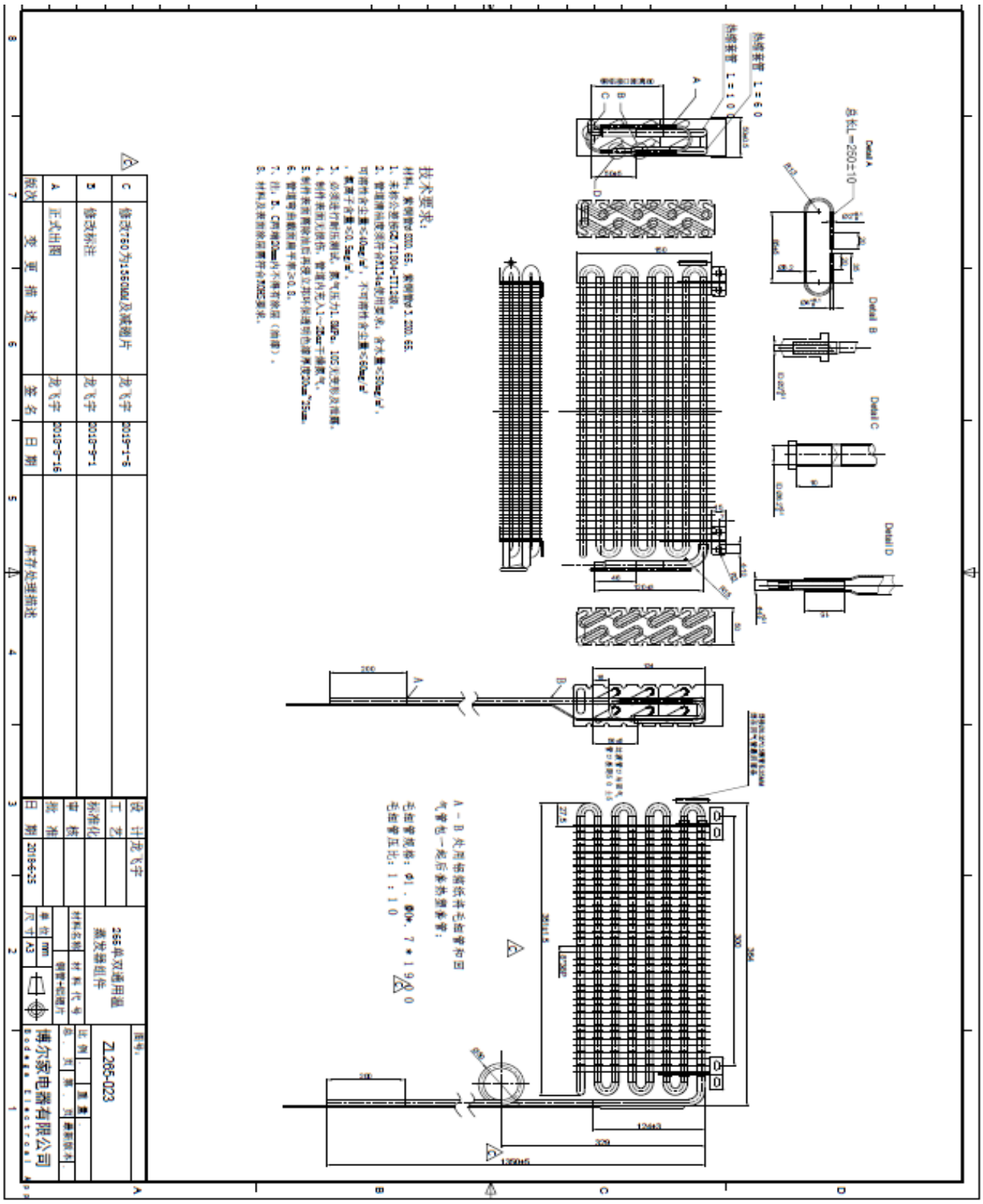
7.0 Illustrations

Illustration 5.4 - Specification of evaporator, for JC-215A, JC215B



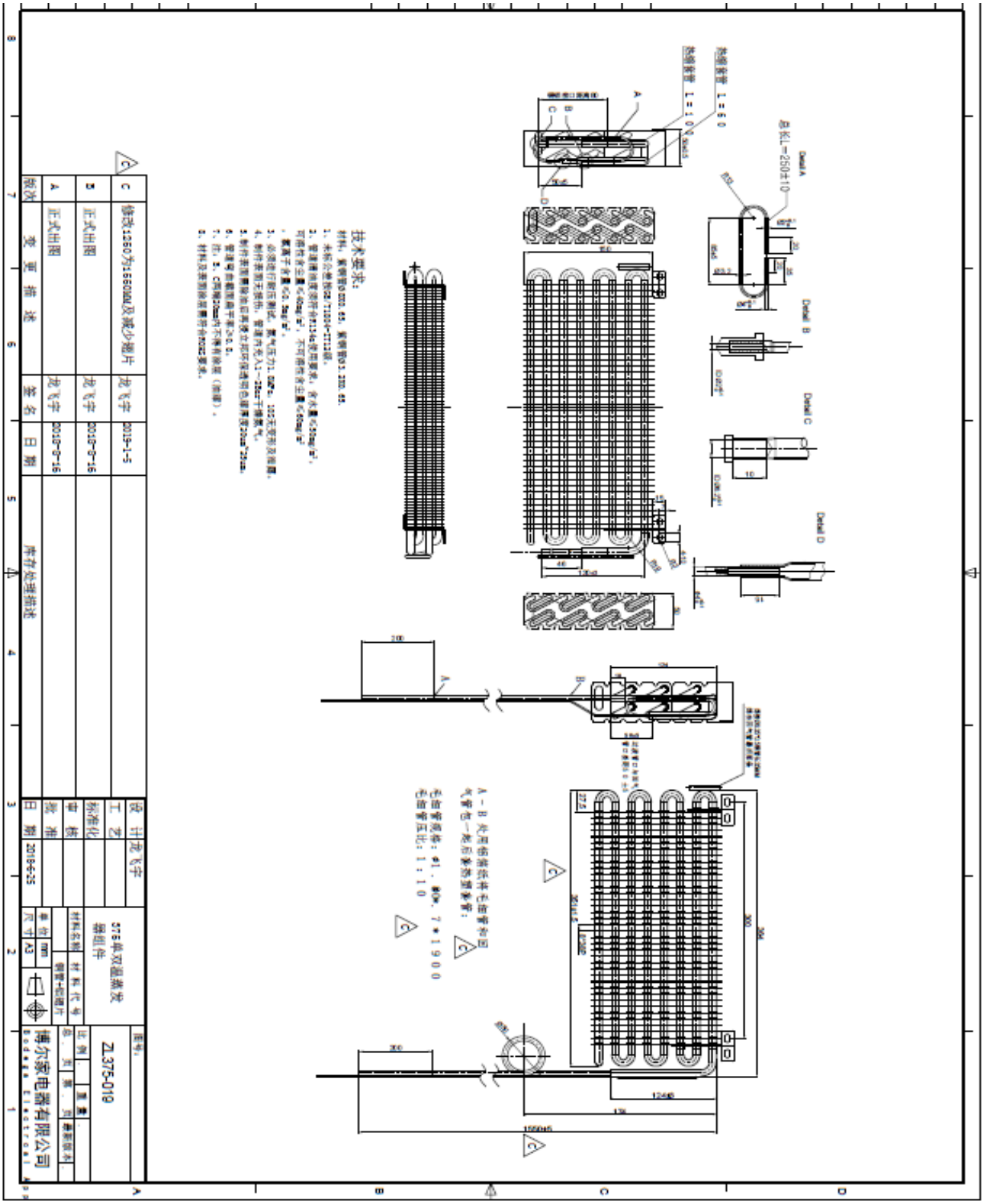
7.0 Illustrations

Illustration 5.5 - Specification of evaporator, for JC-265A, JC-265B



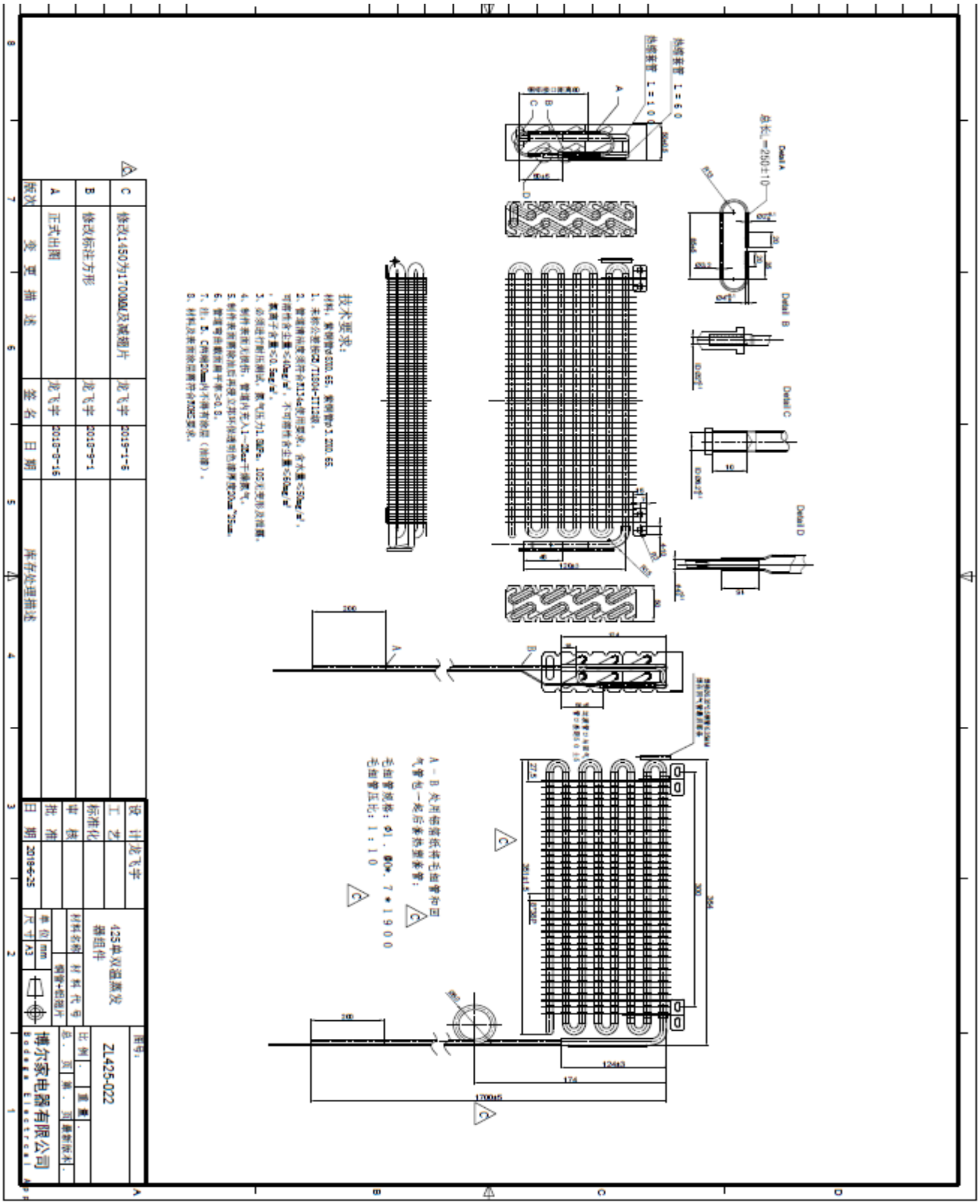
7.0 Illustrations

Illustration 5.6 - Specification of evaporator, for JC-375A, JC-375B



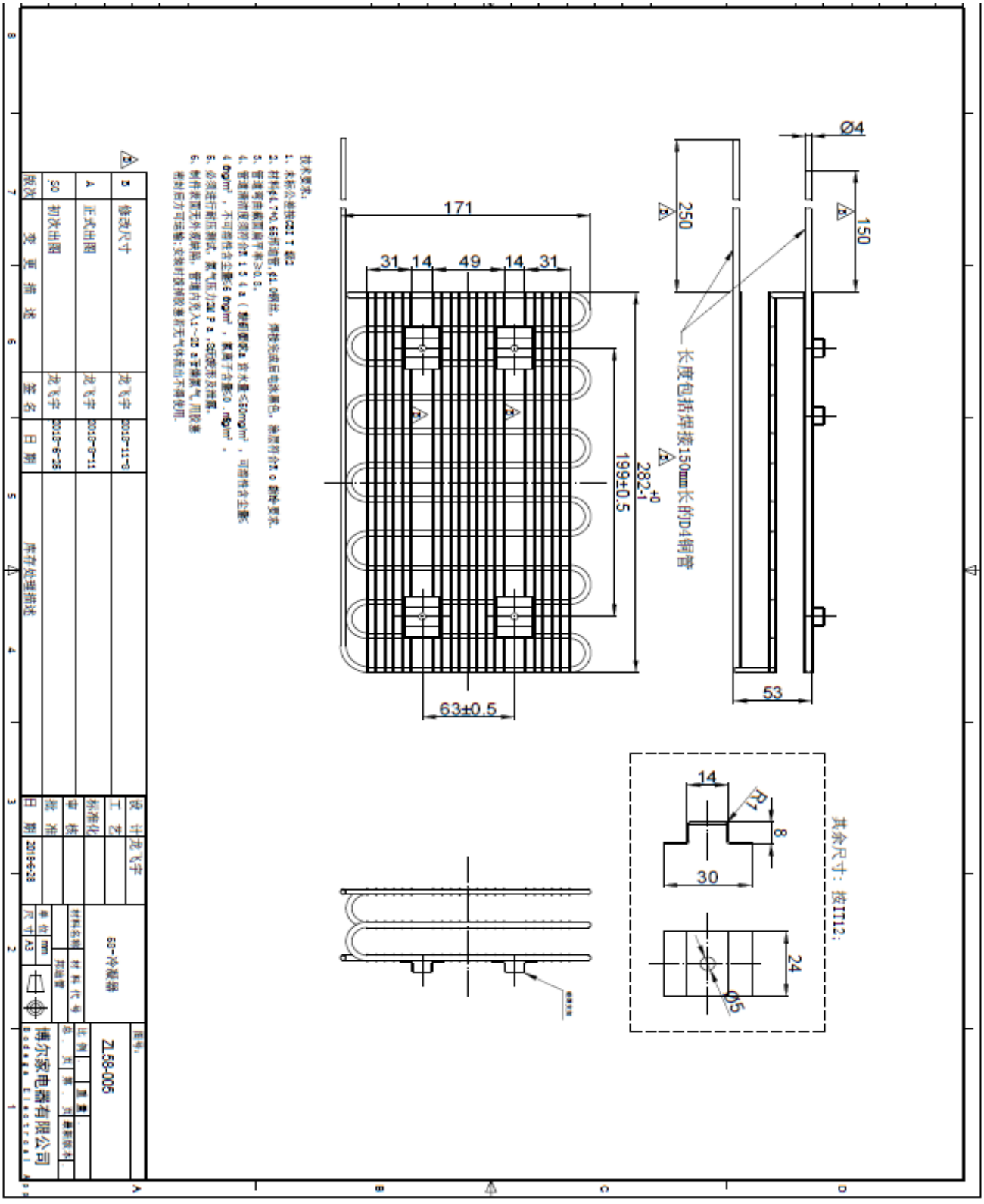
7.0 Illustrations

Illustration 5.7 - Specification of evaporator, for JC-425A, JC-425B



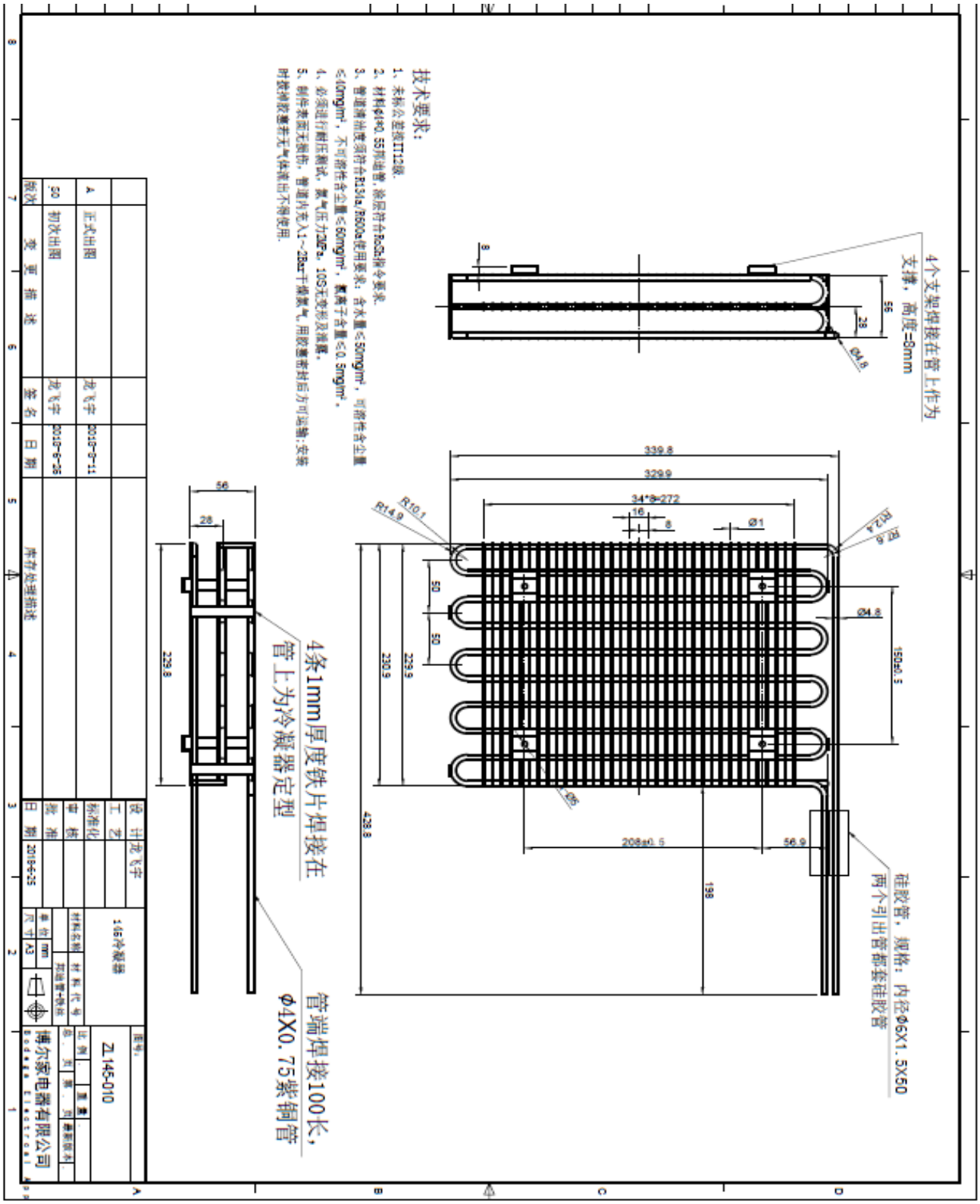
7.0 Illustrations

Illustration 6.1 - Specification of condenser, for JC-58A, JC-85A, JC-85B, JC-85C



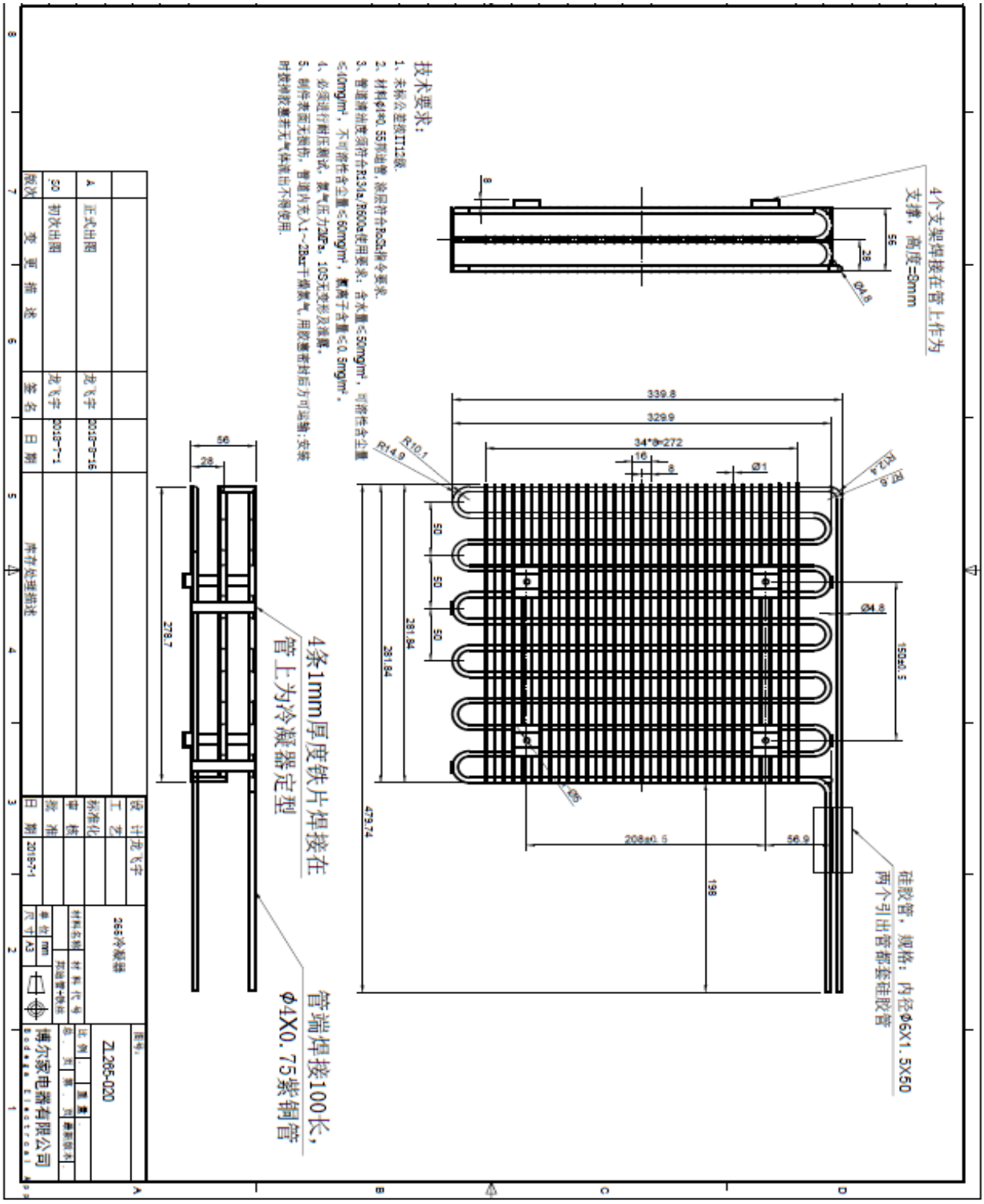
7.0 Illustrations

Illustration 6.2 - Specification of condenser, for JC-145A, JC-145B, JC-145C, JC-145CO, JC-215A, JC215B, 165 series, JC-115DR.



7.0 Illustrations

Illustration 6.3 - Specification of condenser, for JC-265A, JC-265B, JC-375A, JC-375B, JC-425A, JC-425B



7.0 Illustrations

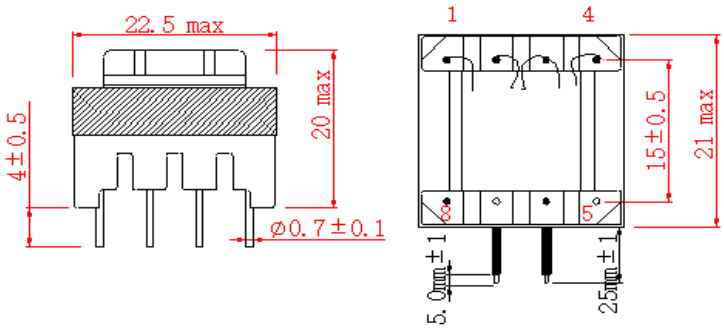
Illustration 7 - Table of overall size

Model	width*height*depth(mm)
JC-58A	295*820*578
JC-85A, JC-85B, JC-85C	380*820*578
JC-115DR	595*870*584
JC-145A, JC-145B, JC-145C, JC-145CO	595*820*578
JC-165A, JC-165B, JC-165C	605*870*600
JC-215A, JC215B	595*1000*700
JC-265A, JC-265B	595*1200*700
JC-375A, JC-375B	595*1600*700
JC-425A, JC-425B	595*1800*700

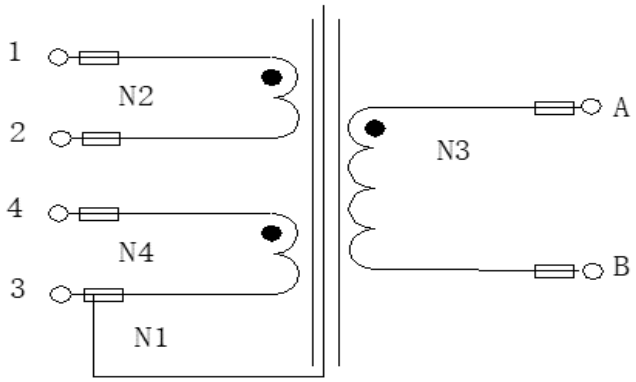
7.0 Illustrations

Illustration 8.1 - Specification of Transformer EF20

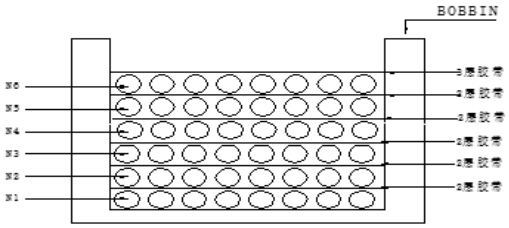
一. 外形图及尺寸（单位：mm ）



二. 原理图



三. 绕组结构及绕线顺序

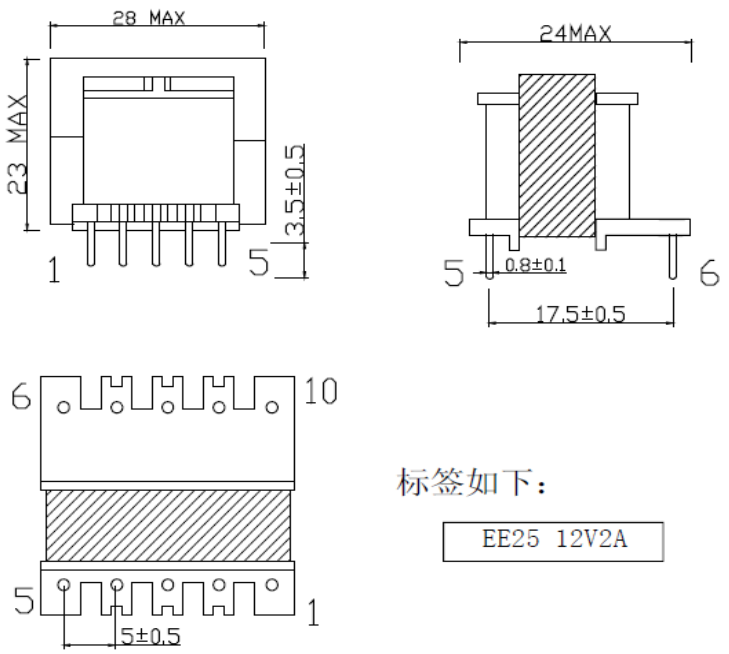


绕组	起头一收尾	漆包线规格	圈数	绝缘胶带	绕制工艺	备注
N1	⑤---	Φ0.17mm*1C	63Ts	12.5mm*2Ts	密绕一层	PIN6-10 朝机台密绕一层
N2	②—①	Φ0.27mm*1C	108Ts	12.5mm*2Ts	密绕	PIN6-10 朝机台密绕三层
N3	(A)—(B)	TEX-E Φ0.50mm*1C	20Ts	12.5mm*2Ts	均绕两层	PIN1-5 朝机台均绕两层
N4	③—④	Φ0.17mm*1C	23Ts	12.5mm*2Ts	居中密绕	PIN6-10 朝机台居中密绕

7.0 Illustrations

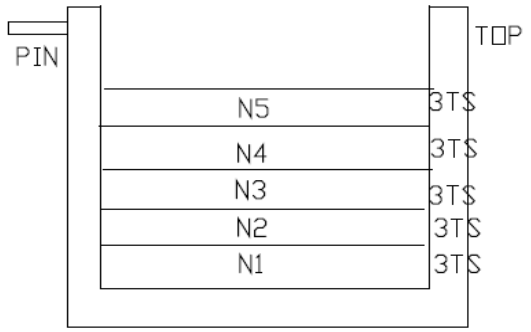
Illustration 8.2 - Specification of Transformer EE25 12V2A

1、外观尺寸及外形图

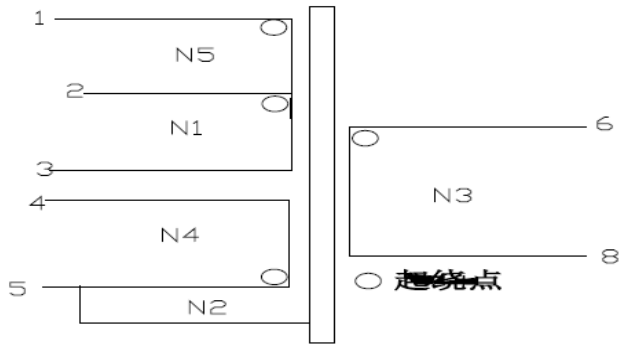


备注：
1. PIN7, 9, 10, NO, PIN2剪掉3/2。

2、内部结构图（用图标明骨架中各绕组、绝缘胶带、挡边的位置分布）



3、绕线线路图



4、绕线顺序

工序	进线	出线	线径	绕线圈数	胶带圈数	绕线方式
N1	2	3	2UEW∮0.30*1P	60TS	3TS	密绕
N2	5	NC	2UEW∮0.15*2P	28TS	3TS	密绕
N3	6	8	TIW-B∮0.6*1P	12TS	3TS	密绕
N4	5	4	2UEW∮0.15*2P	16TS	3TS	居中密绕
N5	1	2	2UEW∮0.30*1P	27TS	3TS	密绕
备注：	PIN3脚上顶槽					

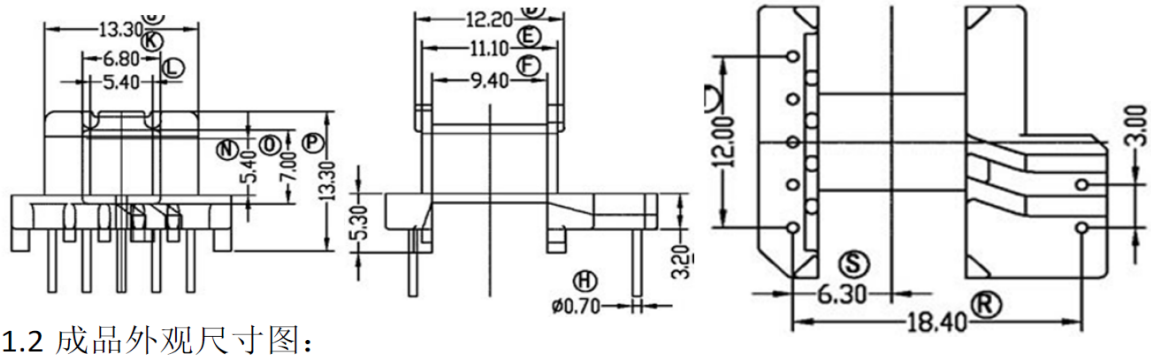
7.0 Illustrations

Illustration 8.3 - Specification of Transformer E19(5+2)

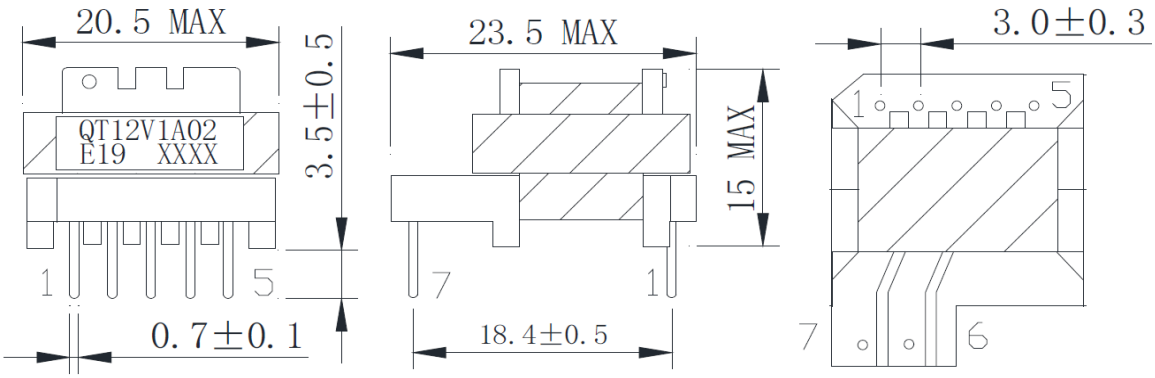
客 户	秦唐	产品料号		产品编号	-

1. 外观尺寸图

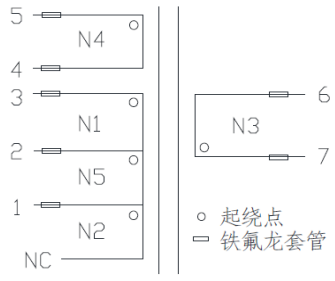
1.1 骨架外观尺寸图



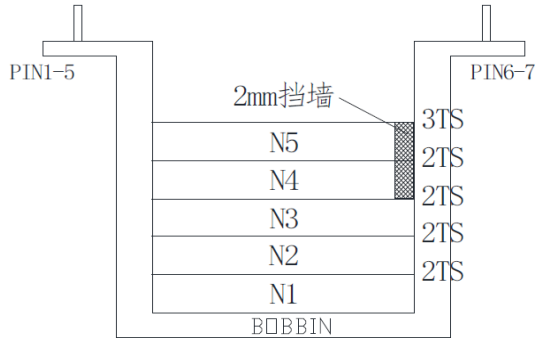
1.2 成品外观尺寸图：



2. 电性原理图：



3.内部结构图：



4. 绕线顺序：

项目 / 绕组	起线/收线	套管	规格	匝数	胶带	绕线方式
N1	③--②	有	2UEW Φ0.21*1P	75TS	2TS	PIN1-5 朝外顺密绕
N2	①--NC	有	T0.025*6*25mm 背胶	0.9TS	2TS	PIN1-5 朝外顺中绕
N3	⑦--⑥	有	MIW-B Φ0.3*2P	16TS	2TS	PIN1-5 朝外顺密绕
N4	⑤--④	有	2UEW Φ0.15*2P	16TS	2TS	PIN1-5 朝外顺均绕
N5	②--①	有	2UEW Φ0.21*1P	43TS	3TS	PIN1-5 朝外顺密绕
备注：	PIN1 预留 10mm 线头，镀锡后接磁芯，绕 N4N5 前 PIN6-7 侧包 2mm 挡墙。					

8.0 Test Summary					
Evaluation Period	Dec 6, 2018 to Apr 9, 2019			Project No.	181206080GZU
Sample Rec. Date	4-Dec-2018	Condition	Prototype	Sample ID.	S181206080-001 to 009
Test Location	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Block E, No,7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD Guangzhou, 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 tests were performed:					

Test Description	UL 60335-1:2016 Ed.6 UL 60335-2-24:2017 Ed.2 CSA C22.2 No. 60335-1 2016 Ed.2 CSA 22.2#60335-2-24:2017 Ed.2/ Clause	--	--
Marking and instructions - Marking legible and durable test	7.14	--	--
Protection against access to live parts	8	--	--
Power input and current	10	--	--
Heating	11	--	--
Leakage current and electric strength at operating temperature	13	--	--
Moisture resistance – Spillage test	15.2		
Moisture resistance – Humidity test	15.3	--	--
Moisture resistance – Spillage of liquid from containers onto the inside walls	15.102	--	--
Moisture resistance – Poured liquid over top	15.103	--	--
Moisture resistance – Overflow test	15.107DV.1	--	--
Leakage current and electric strength	16	--	--
Abnormal operation – PTC heating elements over voltage test	19.6		
Abnormal operation – Locking moving parts of motor test	19.7		
Abnormal operation – Fault conditions of electronic circuits test	19.11.1-19.11.2	--	--
Abnormal operation – Acceptance conditions after all abnormal operation tests	19.13	--	--
Abnormal operation – Heating system continuously operate	19.101	--	--
Mechanical hazards test	20.2	--	--
Stability test for Refrigerator	20.101DV	--	--
Mechanical strength – Impact test	21.1	--	--
Shelf impact and static load test	21.103DV.1	--	--
Component restraint test	21.104DV.1	--	--
Construction – Plug discharge test	22.5	--	--
Pressure test for appliance using flammable refrigerants	22.7		
Construction – Non-detachable parts push and pull test	22.11	--	--
Construction – Test for heater	22.102DV.1-22.102DV.2	--	--
Refrigeration system leakage test in areas outside the food storage compartments	22.109	--	--
Door latch release test	22.112DV.1	--	--
Accessible glass panels test	22.116	--	--
Internal wiring – Insulation test	23.5	--	--

8.0 Test Summary			
Components – Capacitor voltage test	24.5	--	--
Supply connection and external flexible cords – Pull and torque test	25.15	--	--
Provision for earthing – Ground impedance test	27.5	--	--
Screws and connections – Screws torque test	28.1	--	--
Clearances distance	29.1	--	--
Creepage distance	29.2	--	--
Resistance to heat and fire – Ball pressure test	30.1	--	--
Resistance to heat and fire – Glow-wire Test Record	30.2.1-30.2.3	--	--
Locked-rotor test of fan motors	Annex AA	--	--
Door hinge strength test	Annex 101.DVC.1	--	--
Nichrome Wire Test	Annex 101.DVD.6	--	--
Test Description	--	UL 1310, 6th Ed., Rev. Dec. 12, 2014 Clause	CSA C22.2 No. 223-15, Rev. Dec., 2015 Clause
Maximum Output Voltage Test / Open-Circuit Secondary Voltage	--	28	6.3.1
Output Current and Power Test / Maximum Output Current and Power	--	30	6.3.4
Dielectric Voltage Withstand Test / Dielectric Strength	--	34	6.5
Abnormal Tests – Output Loading	--	39.2	--
Abnormal Tests – Component Breakdown	--	39.7	6.8
Secondary Circuit Protection	--	--	6.7

8.0 Test Summary					
Evaluation Period	Oct 11, 2019 to Jan 2, 2020			Project No.	191011065GZU
Sample Rec. Date	11-Oct-2019	Condition	Prototype	Sample ID.	S191011065-001 to 003
Test Location	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Block E, No,7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD Guangzhou, 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 tests were performed:					

Test Description	UL 60335-1:2016 Ed.6 UL 60335-2-24:2017 Ed.2 CSA C22.2 No. 60335-1 2016 Ed.2 CSA 22.2#60335-2-24:2017 Ed.2/ Clause	--	--
Power input and current	10	--	--
Heating	11	--	--
Leakage current and electric strength at operating temperature	13	--	--
Moisture resistance – Humidity test	15.3	--	--
Leakage current and electric strength	16	--	--
Abnormal operation – Locking moving parts of motor test	19.7(1)		
Abnormal operation – Fault conditions of electronic circuits test	19.11.1-19.11.2	--	--
Abnormal operation – Current fuse reliability test	19.12	--	--
Abnormal operation – Acceptance conditions after all abnormal operation tests	19.13	--	--
Shelf impact and static load test	21.103DV.1	--	--
Component restraint test	21.104DV.1	--	--
Construction – Plug discharge test	22.5	--	--
Components – Capacitor voltage test	24.5	--	--
Provision for earthing – Ground impedance test	27.5	--	--
Clearances distance	29.1	--	--
Creepage distance	29.2	--	--

8.0 Test Summary					
Evaluation Period	Aug 20, 2020 to Oct 20, 2020			Project No.	200820017GZU
Sample Rec. Date	20-Aug-2020	Condition	Prototype	Sample ID.	S200820017-001, 002
Test Location	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, &101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2, Caipin Road, Science City, GETDD Guangzhou, 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 tests were performed:

Test Description	UL 60335-1:2016 Ed.6 UL 60335-2-24:2017 Ed.2+ R:22May2019 CSA C22.2 No. 60335-1 2016 Ed.2 CSA C22.2# 60335-2-24:2017 Ed.2+U1/ Clause	--	--
Protection against access to live parts	8	--	--
Power input and current	10	--	--
Heating	11	--	--
Leakage current and electric strength at operating	13	--	--
Moisture resistance – Humidity test	15.3	--	--
Leakage current and electric strength	16	--	--
Abnormal operation – Locking moving parts of motor test	19.7(1)		
Abnormal operation – Fault conditions of electronic	19.11.1-19.11.2	--	--
Abnormal operation – Current fuse reliability test	19.12	--	--
Abnormal operation – Acceptance conditions after all	19.13	--	--
Stability test for Refrigerator	20.101DV	--	--
Construction – Plug discharge test	22.5	--	--
Refrigeration system leakage test in areas outside the food storage compartments	22.109	--	--
Provision for earthing – Ground impedance test	27.5	--	--
Clearances distance	29.1	--	--
Creepage distance	29.2	--	--

Test Description	--	UL 1310, 6th Ed., Rev. Dec. 12, 2014 Clause	CSA C22.2 No. 223-15, Rev. Dec., 2015 Clause
Maximum Output Voltage Test / Open-Circuit Secondary	--	28	6.3.1
Output Current and Power Test / Maximum Output	--	30	6.3.4
Dielectric Voltage Withstand Test / Dielectric Strength	--	34	6.5
Abnormal Tests – Output Loading	--	39.2	--
Abnormal Tests – Component Breakdown	--	39.7	6.8
Secondary Circuit Protection	--	--	6.7

8.0 Test Summary					
Evaluation Period	Sep 25, 2020 to Nov 20, 2020			Project No.	200925184GZU
Sample Rec. Date	25-Sep-2020	Condition	Prototype	Sample ID.	S200925184-001
Test Location	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, &101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2, Caipin Road, Science City, GETDD Guangzhou, 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 tests were performed:					

Test Description	UL 60335-1:2016 Ed.6 UL 60335-2-24:2017 Ed.2+ R:22May2019 CSA C22.2 No. 60335-1 2016 Ed.2 CSA C22.2# 60335-2-24:2017 Ed.2+U1/ Clause	--	--
Power input and current	10	--	--
Heating	11	--	--
Leakage current and electric strength at operating	13	--	--
Moisture resistance – Protection degree against water test	15.1	--	--
Leakage current and electric strength	16	--	--
Abnormal operation – Locking moving parts of motor test	19.7(1)		
Stability test for Refrigerator	20.101DV	--	--
Refrigeration system leakage test in areas outside the	22.109	--	--
Provision for earthing – Ground impedance test	27.5	--	--

8.0 Test Summary					
Evaluation Period	Nov 25, 2020 to Jan 11, 2021			Project No.	201125038GZU
Sample Rec. Date	25-Nov-2020	Condition	Prototype	Sample ID.	S201125038-001~004
Test Location	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, &101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2, Caipin Road, Science City, GETDD Guangzhou, 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 tests were performed:					
Test Description			UL 60335-1:2016 Ed.6 UL 60335-2-24:2017 Ed.2+ R:22May2019 CSA C22.2 No. 60335-1 2016 Ed.2 CSA C22.2# 60335-2-24:2017 Ed.2+U1/ Clause	--	--
Power input and current			10	--	--
Heating			11	--	--
Leakage current and electric strength at operating temperature			13	--	--
Leakage current and electric strength			16	--	--
Abnormal operation – Locking moving parts of motor test			19.7(1)	--	--

8.0 Test Summary					
Evaluation Period	Oct. 26, 2021 to Dec. 31, 2021			Project No.	211026164GZU
Sample Rec. Date	26-Oct-2021	Condition	Prototype	Sample ID.	S211026164-001~007
Test Location	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, &101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2, Caipin Road, Science City, GETDD Guangzhou, 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 tests were performed:

Test Description	UL 60335-1:2016 Ed.6 UL 60335-2-24:2017 Ed.2+ R:22May2019 CSA C22.2 No. 60335-1 2016 Ed.2 CSA C22.2# 60335-2-24:2017 Ed.2+U1/ Clause	UL 1310 2018 Ed.7+R 16Aug2019 / Clause	CSA C22.2 No. 223-15 / Clause
Power input and current	10	--	--
Heating	11	--	--
Leakage current and electric strength at operating temperature	13	--	--
Moisture resistance – Humidity test	15.3	--	--
Leakage current and electric strength	16	--	--
Abnormal operation – Locking moving parts of motor test	19.7(1)	--	--
Abnormal operation – Fault conditions of electronic circuits test	19.11.1 & 19.11.2	--	--
Abnormal operation – Current fuse reliability test	19.12	--	--
Abnormal operation – Acceptance conditions after all abnormal operation tests	19.13	--	--
Construction – Plug discharge test	22.5	--	--
Components – Capacitor voltage test	24.5	--	--
Clearances distance	29.1	--	--
Creepage distance	29.2	--	--
Resistance to heat and fire – Glow-wire Test Record	30.2.1 & 30.2.3	--	--
Nichrome Wire Test	Annex 101.DVD.6	--	--
Maximum Output Voltage Test	--	28	--
Output Current and Power Test	--	30	--
Dielectric Voltage Withstand Test	--	34	--
Abnormal Tests – Output Loading	--	39.2	--
Abnormal Tests – Component Breakdown	--	39.7	--
Open-circuit secondary voltage	--	--	6.3.1
Maxinmum output current and power	--	--	6.3.4
Dielectric Strength	--	--	6.5
Secondary circuit portection	--	--	6.7
Abnormal Tests – Component Breakdown	--	--	6.8

8.0 Test Summary

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:	Henry Liu / John Li	Reviewed by:	Kelvin Guan
Title:	Engineer / Project Engineer	Title:	Supervisor
Signature:	*Signature on file*	Signature:	*Signature on file*

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	Zhongshan Bodega Electrical Appliance Co., Ltd
Address	No. 20 Jianmin Road, Huangpu town, Zhongshan, Guangdong
Country	China
Product	Wine Cooler

MULTIPLE LISTEE 1	Stirling Marathon Limited
Address	230 Hanlon Creek Boulevard, Unit 101, Elora, ON Canada N0B 1S0
Country	Canada
Brand Name	MARATHON, EuroDesign
ASSOCIATED MANUFACTURER	Zhongshan Bodega Electrical Appliance Co., Ltd
Address	No. 20 Jianmin Road, Huangpu town, Zhongshan, Guangdong
Country	China

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS
MWC28-DSSE, MWC28-DBLSE, MWC28-DSS MBWC56-SS, MBWC56-BLS MWC56-DSSE, MWC56-DBLSE, MWC56-DSS, MWC56-DBLS	JC-85B JC-165A JC-165B

MULTIPLE LISTEE 2	The Legacy Companies
Address	3355 Enterprise Avenue # 160, Weston, FL 33331
Country	USA
Brand Name	Maxximum, Maxx Cold
ASSOCIATED MANUFACTURER	Zhongshan Bodega Electrical Appliance Co., Ltd
Address	No. 20 Jianmin Road, Huangpu town, Zhongshan, Guangdong
Country	China

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS
MAXWIDZ46GDP	JC-145B

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 3	Avanti Products LLc
Address	3265 Meridian Pkwy # 114 Weston, FL 33331
Country	USA
Brand Name	Avanti
ASSOCIATED MANUFACTURER	Zhongshan Bodega Electrical Appliance Co., Ltd
Address	No. 20 Jianmin Road, Huangpu town, Zhongshan, Guangdong
Country	China

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS
WCD52SZ3S	JC-145A
WCD46DZ3S	JC-145B
BCD50Z3S	JC-145C
WCD176SZ3S	JC-425A
WCD165DZ3S	JC-425B
WBE1956Z3S	JC-115DR
WCS31Z3S-IS	JC-85A
BCS30Z3S-IS	JC-85C
WCES52Z3S-IS	JC-165A
WCED46Z3S-IS	JC-165B
ARFE52Z3S-IS	JC-165C

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 Limited Guangzhou Branch
ETL Component Evaluation Center
Room 02, &101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2, Caipin Road, Science City

GETDD Guangzhou, 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

Electric Strength Test
Earth Continuity Test
Functional Test
Pressure Tests For Leakage and Strength

11.1 Electric Strength 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 Electric Strength Test:

Product	Test Voltage	Test Time
All products covered by this Report.	1250 Vac	60 s
	or	
	2000 Vac	1 s

Product - One sample from each shipment of Section 4.0 item 32, 46, 68:	Test Voltage	Test Time
Between prim. and sec. output; Between prim. and core	1000 Vac	60 s
	or	
	1200 Vac	1 s

11.2 Earth Continuity Test

Method

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

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

Products Requiring Earth Continuity Test:

All products covered by this Report.

11.3 Functional Test

Method

The correct functioning of an appliance is checked by inspection or by an appropriate test if the incorrect connection or adjustment of components has safety implications.

Products Requiring Functional Test:

All products covered by this Report.

11.4 Pressure Tests For Leakage and Strength

Method

Each product shall be tested and provided tight at not less than the design pressure(s) of appliance. If the final assembly is completed with flare-type fittings or telescoped tubing joints sealed with silver solder, brazing, or the equivalent, pressure testing of the complete system may be at the low-side design pressure, provided the high-side parts are individually tested either by the dehumidifier manufacturer or by the manufacturer of the part at not less than the high-side design pressure.At least once each year, a strength test shall be conducted on refrigerant-containing components of the shell-type which have an inside diameter greater than 3 inches(76.2mm) including motor-compressor enclosures. The test shall be conducted on at least one sample of each size and type. The part shall comply with requirements of Strength Tests. Such tests may be conducted either by the product manufacturer or by the manufacturer of the component.

Products Requiring Pressure Tests for Leakage and Strength:

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
2-Jan-2020	Becky Fan / Sunny Zhou Daniel Liu	2	-	Added new models JC-165A, JC-165B, JC-165C. Revised the Model Similarity, Ratings due to adding new models.
191011065GZU		3	4a, 9a~9d, 15a, 15b, 19a, 26~28	Added new photos.
		4	11	Added "JC-165B" on the technical data.
			14	Added new models JC-165A, JC-165B, JC-165C on the technical data for type SPG 40.
			17	Added "450 V, 12 µF for compressor EMYS45CLP." on the technical for all types.
			18	Added photo#19a; Added compressor type EMYS45CLP.
			20	Added "165" on the technical data.
			23	Added "for all models" on the technical data.
			24	Added photo#28.
			35~42	Added components.
		7	1	Deleted the words "made in China / Fabriqué en Chine" on the marking label.
			4.2	Added Schematic Diagram of Control Board Assembly, model BJ-MWI12-Power-01.
			5.3	Added "JC-165A, JC165B, JC-165C" on the title.
			6.2	Added "165 series" on the title.
			7	Added overall size for 165 series models.
		8	-	Added test block for this revision and re-signed report.
20-Feb-2020	Layton Chen Kelvin Guan / Becky Fan Daniel Liu	7	4.3.1~ 4.3.4	Added circuit diagram for models.
200114152GZU		9	1	Added ML "Stirling Marathon Limited", ML models "MWC28-DSSE, MWC28-DBLSE, MWC28-DSS, MBWC56-SS, MBWC56-BLS, MWC56-DSSE, MWC56-DBLSE, MWC56-DSS, MWC56-DBLS", with brand name "MARATHON, EuroDesign".

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
20-Oct-2020	Brown Xiong Candy Wei/ Becky Fan	1	-	Corrected UL standard from "Safety Of Household And Similar Electrical Appliances, Part 1: General Requirements [UL 60335-1:2016 Ed.6]" to "Household And Similar Electrical Appliances, Part 1: General Requirements [UL 60335-1:2016 Ed.6] ". Updated UL standard from "Household And Similar Electrical Appliances – Safety – Part 2-24: Particular Requirements For Refrigerating Appliances, Ice-Cream Appliances And Ice-Makers [UL 60335-2-24:2017 Ed.2]" to "Safety Requirements for Household and Similar Electrical Appliances - Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances and Ice-Makers [UL 60335-2-24:2017 Ed.2+R:22May2019]". Updated CSA standard from "Household And Similar Electrical Appliances – Safety – Part 2-24: Particular Requirements For Refrigerating Appliances, Ice-Cream Appliances And Ice-Makers [CSA C22.2#60335-2-24:2017 Ed.2]" to "Household and Similar Electrical Appliances – Safety – Part 2-24: Particular Requirements for Refrigerating Appliances, Ice-cream Appliances and Ice-makers [CSA C22.2#60335-2-24:2017 Ed.2+U1]".
200820017GZU		2	-	Added a new model JC-115DR, and updated the Model Similarity, Ratings due to adding new model.
		3	1	Added the content "other than JC-115DR" on the title.
			3	Added the content "JC-115DR" on the title.
			1a, 3a, 9e, 15c, 19b, 21a, 29, 30, 31	Added new photos for new model JC-115DR.
		4	4a	Added a component "Shelf 2".
			8	Corrected Evaporator Fan model from "CHA9012RM-20B" to "CHA9012RM-25B" due to previous mistake.
			11	Corrected "Technical data and securement means" for model CHA8012RM-15B from "DC 12V, 0.1A" to "DC 12V, 0.18A" due to previous mistake.
			18	Added "JC-115DR" into "Technical data and securement mean" for Compressor with model TU1110HY.
			20	Added "length 1.45m for model JC-115DR" into "Technical data and securement mean" for Capillary.
			27	Corrected "Technical data and securement means" for model 932 from "300V, 2A" to "250V, 2A" due to previous mistake.
			43~57	Added components.
			58	Added a component "Electromagnetic valve" for new model JC-115DR
		6	8	Added "4.1.1, 4.3.5" into illustration numbers.
		7	3.3	Updated Important Instruction for adding new model JC-115DR.
			4.1.1	Added Schematic Diagram of Switching Power Unit, model BEJ-HJG-POWER.
			4.3.5	Added circuit diagram for model JC-115DR.
			5.1	Added "JC-115DR" on the title and added note for new model JC-115DR.

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
			6.2	Added "JC-115DR" on the title.
			7	Added overall size of JC-115DR into the table.
		8	-	Added test block and re-signed.
		9	2	Added ML "The Legacy Companies", ML model "MAXWIDZ46GDP", with brand name "Maxximum, Maxx Cold".
20-Nov-2020 200925184GZU	Brown Xiong/ Becky Fan	2	-	Added two brand names ProFire, MAVENCOOL. Added a new model JC-145CO, and updated the Description, Model Similarity, Ratings due to adding new model.
		3	1, 3	Added the content "JC-145CO" on the title.
			2	Added the content "other than JC-145CO" on the title.
			1b, 2a, 3b, 9f, 19c	Added new photos for new model JC-145CO.
			14	Added the content "and JC-145CO" on the title.
		4	1a, 2a, 7a, 9a, 10a	Added components for new model JC-145CO.
			5	Added "For all models except JC-145CO" into Technical data and securement means. Added alternative Nameplate Marking Label for new model JC-145CO.
			6	Added "For all models except JC-145CO" into Technical data and securement means. Added alternative Warning Marking Label for new model JC-145CO.
			7	Added "except JC-145CO" into Technical data and securement means.
			14	Added "JC-145CO" into "Technical data and securement mean" for PTC Heater with model SPG 40.
			16	Added "For all models except JC-145CO" into the "Technical data and securement means" for type SJT. Added new Power Supply Cord type SJTW for new model JC-145CO.
			18	Added "JC-145CO" into "Technical data and securement mean" for Compressor with model TU1110HY.
			19	Added "Used one condenser fan for all models except JC-145CO; used two condenser fan for JC-145CO." into "Technical data and securement mean" for Condenser Fan
		6	8	Added "4.3.6" into illustration numbers.
			9	Added "1.1" into illustration numbers for the layout
		7	1.1	Added a marking for new model JC-145CO
			3.3	Updated Important Instruction for adding new model JC-145CO.
			4.3.6	Added circuit diagram for model JC-145CO.
			5.3, 6.2	Added "JC-145CO" into the title.
			7	Added JC-145CO into the table.
		8	-	Added test block and re-signed.
		9	1	Updated ML Address from "230 Hanlon Creek Boulevard, Unit 101, Guelph, Ontario, N1C 0A1" to "230 Hanlon Creek Boulevard, Unit 101, Elora, ON Canada N0B 1S0"

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
11-Jan-2021 201125038GZU	Brown Xiong/ Becky Fan	2	-	Revised Ratings for JC-165 series models from "115-127V, 60Hz, 0.8A" to "115-127V, 60Hz, 1.2A".
		3	32, 33	Added photos for transformers
		4	18	Added alternative Compressor as below: Model: FZ35Y1M-U, FZ59E1G-U Manufacturer: ANHUI MEIZHI COMPRESSOR CO LTD
			32	Added "Include item 32a to 32e. See illustration 8.1 for details" into "Technical data and securement means"
			32a to 32e	Added critical components for transformer EF20
			46	Added "Include item 46a to 46d. See illustration 8.2 for details" into "Technical data and securement means"
			46a to 46d	Added critical components for transformer EE25 12V2A
		6	12	Added item 12 "Transformer"
		7	8.1	Added Specification of Transformer EF20
			8.2	Added Specification of Transformer EE25 12V2A
		8	-	Added test block and re-signed.
		11	11.1	Added Products Requiring Electric Strength Test for transformer.
26-Aug-2021 210810062GZU	Yuxuan Huang Lock Li / Sunny Zhou	2	-	Revised brand name from "AOBOSI" to "AAOBOSI", Added brand name "SOTOLA".
		7	1, 1.1	Delete the control number "5013663", ETL Logo and standard on the Marking.
31-Dec-2021 211026164GZU	Henry Liu, John Li / Kelvin Guan	2	-	Changed the rating of model JC-115DR from "0.8A" to "1.2A".
		3	34, 35, 36	Added these new photos.
		4	18	Added "JC-115DR" to Technical data and securement means for Compressor model FZ59E1G-U.
			59 to 70	Added these new items.
		6	8	Changed the illustration number from "1, 4.1, 4.1.1, 4.2, 4.3.1~4.3.4, 4.3.5, 4.3.6" to "1, 4.1, 4.1.1, 4.1.2, 4.2, 4.3.1~4.3.4, 4.3.5, 4.3.6".
			12	Added the item number 68 and changed the illustration number from "8.1 to 8.2" to "8.1 to 8.3".
		7	4.1.2, 8.3	Added these new items.
		8	-	Added new test block and re-signed.
		9	3	Added ML "Avanti Products LLc" with brand name "Avanti", ML models refer to ML.3 in section 9.0.
		11	11.1	Added the item number 68 in "Products Requiring Electric Strength Test"

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
13-Jun-2022	Henry Liu, Brown Xiong / Kelvin Guan	4	17	Added content "250V, 10μF for compressor TH1114HY" on the Technical data for type CBB65 and MKP. Modified the content from "250V, 10μF for compressor TH1114HY" to "250V, 8μF for compressor TU1110HY" for type CBB65-A.
220523158GZU	Henry Liu Brown X Kelvin	9	3	Added new ML models "WCS31Z3S-IS, BCS30Z3S-IS, WCES52Z3S-IS, WCED46Z3S-IS, ARFE52Z3S-IS" for ML "Avanti Products LLc" with brand name "Avanti".