

1.0 Reference and Address			
Report Number	130617025GZU-001	Original Issued: 26-Aug-2013	Revised: 20-Jan-2020
Standard(s)	UL 250 Issued: 1993/11/01 Ed: 10 Rev: 2013/02/22 Household Refrigerators and Freezers		
	CSA C22.2#63 Issued: 1993/11/01 (R2013) Household Refrigerators and Freezers; Gen. Inst. 1 (1993) - 6 (2012)		
Applicant	Zhongshan Minea Electrical Appliance Co., Ltd	Manufacturer	<b>Zhongshan Minea Electrical Appliance Co., Ltd</b>
Address	Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong.	Address	Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong.
Country	China	Country	China
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2.0 Product Description						
Product	Wine Cooler					
Brand name	Minea, Vinocave					
Description	The products covered in the report is wine cooler, rated 110-120 V, 60 Hz, intended for indoor household use, provided with a permanently connected 3-wire flexible power supply cord terminated in a NEMA Config 5-15P plug.					
Models	CWC-90A, CWC-100A, CWC-100B, CWC-120A, CWC-120B, CWC-150A, CWC-150B, CWC-150C, CWC-160A, CWC-160B, CWC-200A, CWC-200B, CWC-350A, CWC-350B, CWC-450A, CWC-450B, CWC-70A, CWC-90B, CWC-180C, CWC-90BF, CWC-150BF, CWC-75A, CWC-75B					
Model Similarity	<p>Different series have the similar construction, but different dimension, storage capacity, compressor, condenser, and evaporator.</p> <p>Models with suffix "B" have two temperature compartments. And models without suffix "B" have only one temperature compartments.</p> <p>CWC-70A is identical to CWC-90A except model number, outer dimension and appearance.</p> <p>CWC-75A, CWC-75B are identical to CWC-160A, CWC-160B respectively except storage capacity, compressor, condenser and evaporator.</p> <p>CWC-90B is identical to CWC-100B except model number, outer dimension and appearance.</p> <p>CWC-180C is different to other models except door hinge.</p> <p>CWC-90BF is identical to CWC-90A except door appearance, CWC-90BF employ with stainless steel door frame.</p> <p>CWC-150BF is identical to CWC-150A except door appearance, CWC-150BF employ with stainless steel door frame.</p>					
Ratings	110-120 V, 60 Hz, R600a					
	Model	compressor	input (A)	Heater input (A)	Charge Mass (oz/g)	Dimension(W x H x D)mm
	CWC-70A	JK1111HY	1.2	--	1.0 oz	295x 860x570 mm
	CWC-75A, CWC-75B	L48C5L	1.65	--	0.8 oz	295x 880x570 mm
	CWC-90B	JK1111HY	1.2	1.0	1.0 oz	376x 860x570mm
	CWC-90A, CWC-90BF	JK1111HY	1.2	--	1.0 oz	376x 860x570mm
	CWC-100A	JK1111HY	1.2	--	1.0 oz	395x840x580mm
	CWC-100B	JK1111HY	1.2	1.0	1.0 oz	395x840x580mm
	CWC-120A	JK1111HY	1.2	--	1.0 oz	495x840x580mm
	CWC-120B	JK1111HY	1.2	1.0	1.0 oz	495x840x580mm
	CWC-150A, CWC-150C, CWC-150BF	JK1111HY	1.2	--	1.0 oz	595x840x570mm
	CWC-150B	JK1111HY	1.2	1.0	1.0 oz	595x840x570mm
	CWC-160A	JK1111HY	1.2	--	1.0 oz	395x1275x580mm
	CWC-160B	JK1111HY	1.2	1.0	1.0 oz	395x1275x580mm
	CWC-180C	JK1111HY	1.5	0.7	1.4 oz	757*570*860mm
	CWC-200A	JK1111HY	1.2	--	1.0 oz	495x1275x580mm
	CWC-200B	JK1111HY	1.2	1.0	1.0 oz	495x1275x580mm
	CWC-350A	N1116HY	2.3	--	1.4 oz	595x1397x680mm
	CWC-350B	N1116HY	2.3	1.0	1.4 oz	595x1397x680mm
	CWC-450A	N1116HY	2.3	--	1.4 oz	595x1769x680mm
CWC-450B	N1116HY	2.3	1.0	1.4 oz	595x1769x680mm	
Other Ratings	NA					

### 3.0 Product Photographs

**Photo 1 - External views of CWC-100A**



**Photo 2 - External views of CWC-100B**



**Photo 2A - External views of CWC-90A**



**3.0 Product Photographs**

**Photo 2B - External views of CWC-70A**

CWC-70A



**Photo 2C - External views of CWC-90B**

CWC-90B



**Photo 3 - External views of CWC-120A**



### 3.0 Product Photographs

Photo 4 - External views of CWC-120B



Photo 5 - External views of CWC-160A

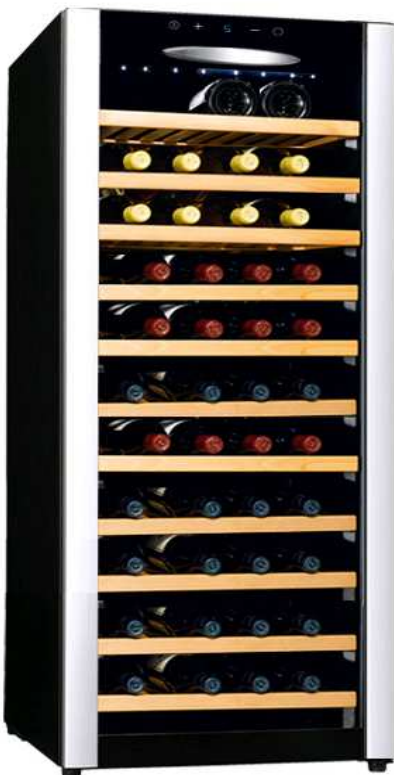


### 3.0 Product Photographs

Photo 6 - External views of CWC-160B



Photo 7 - External views of CWC-200A



**3.0 Product Photographs**

**Photo 8 - External views of CWC-200B**



**Photo 9 - External views of CWC-150A**



**Photo 10 - External views of CWC-150B**



### 3.0 Product Photographs

Photo 11 - External views of CWC-150C



Photo 12 - External views of CWC-350A



Photo 13 - External views of CWC-350B





### 3.0 Product Photographs

Photo 14 - External views of CWC-450A



Photo 15 - External views of CWC-450B



**3.0 Product Photographs**

**Photo 16 - External views of CWC-100A:**

The glass panel of door (item 1) shall pass impact without breakage. (Impact value 2.2 J by 0.54 kg steel ball, refer to Glass Strength Test of UL 250)



**Photo 17 - External views of CWC-100A**

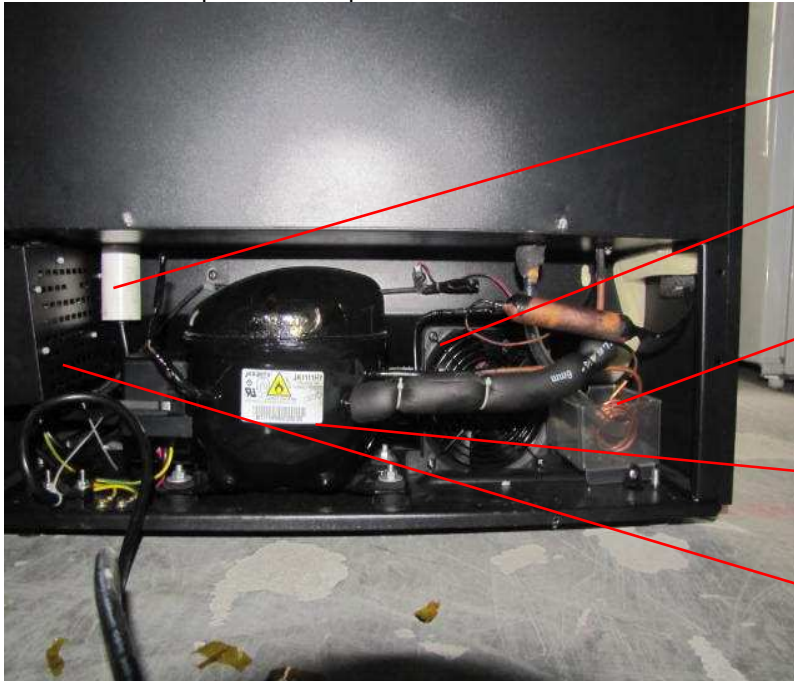


**3.0 Product Photographs**

**Photo 18** - Compressor compartment for CWC-100 series, also represent CWC-120 series, CWC-160 series, CWC-200 series, CWC-75 series



**Photo 19** - Compressor compartment for CWC-150 series

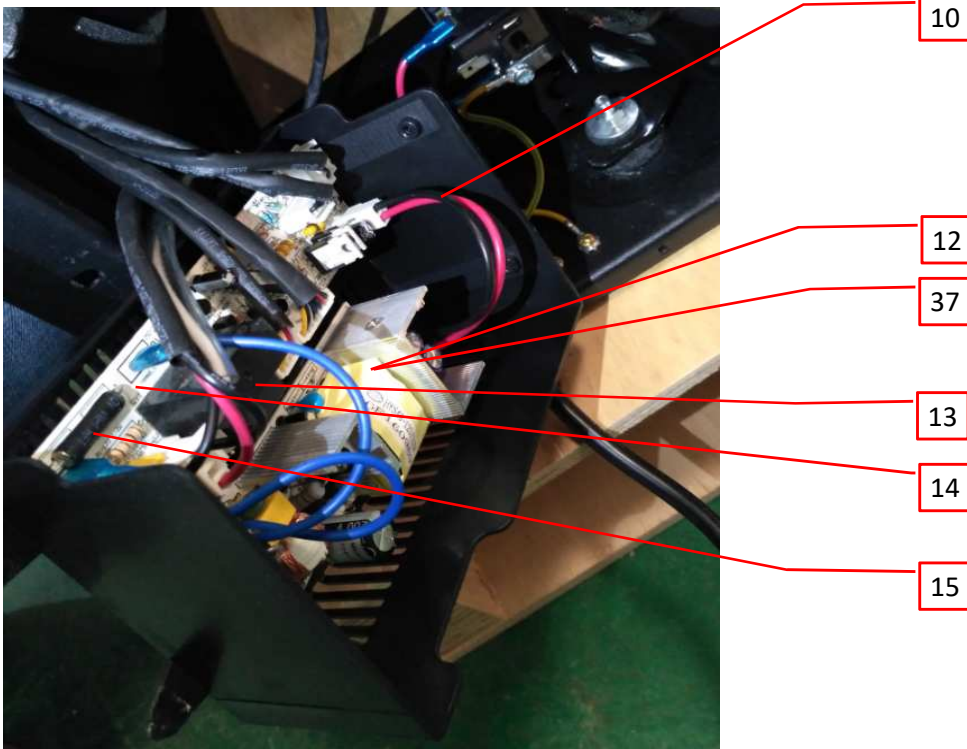


**Photo 20** - Compressor compartment for CWC-450 series. The rear guard is optional for all models

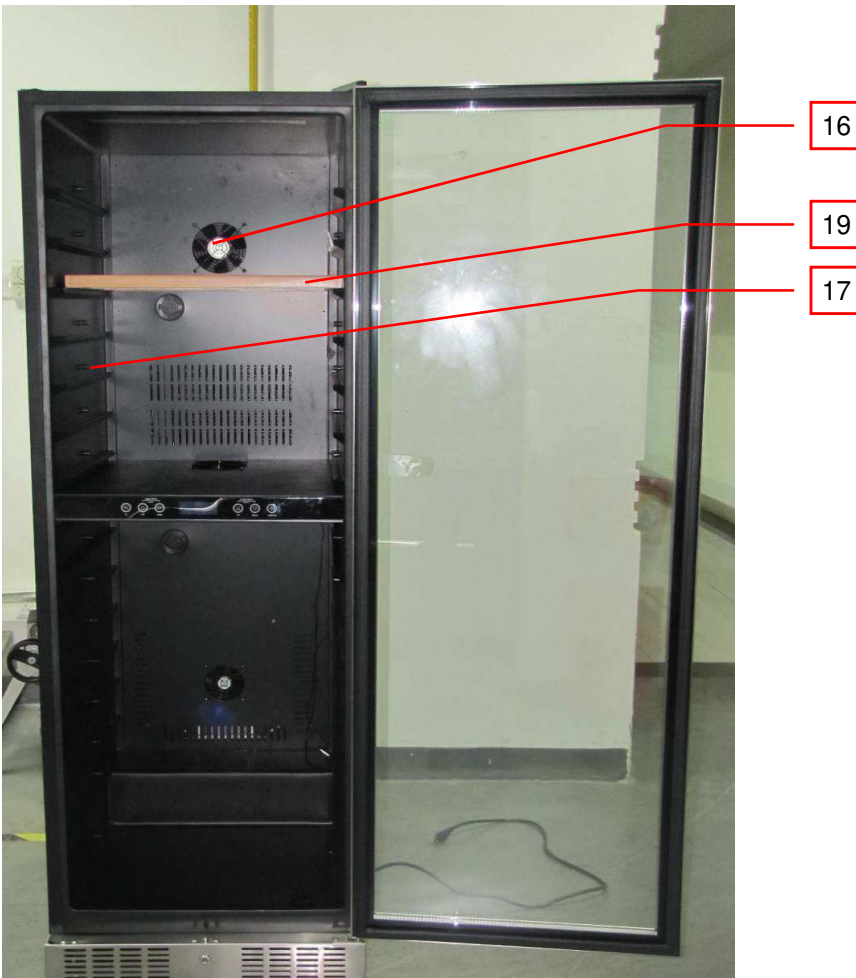


**3.0 Product Photographs**

**Photo 21** - internal view, component side

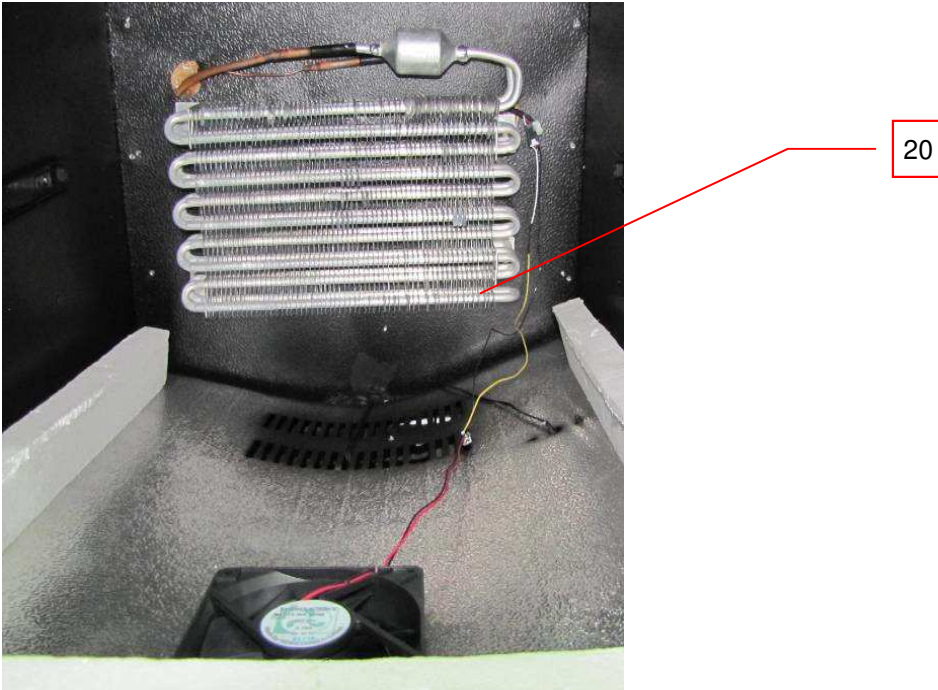


**Photo 22** - internal view of CWC-450B

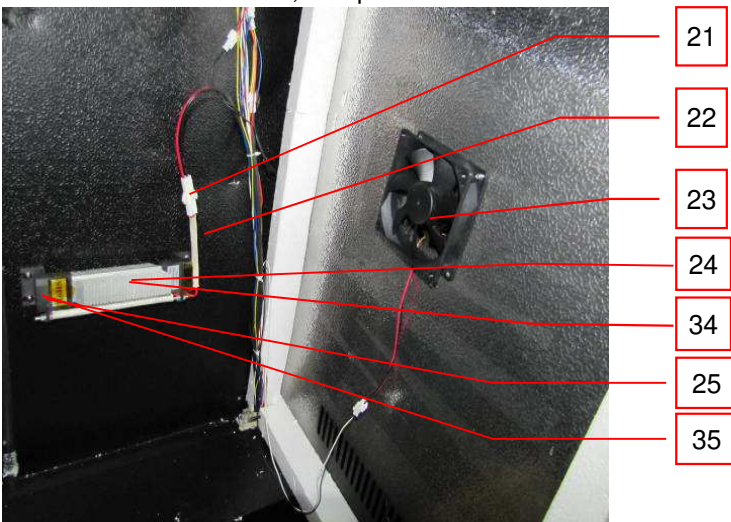


**3.0 Product Photographs**

**Photo 23** - internal view, component side



**Photo 24** - internal view, component side



**Photo 25** - External view of model CWC-180C



### 3.0 Product Photographs

**Photo 26** - Internal view of model CWC-180C



**Photo 27** - Internal view of model CWC-180C



**Photo 28** - Internal view of model CWC-180C



**3.0 Product Photographs**

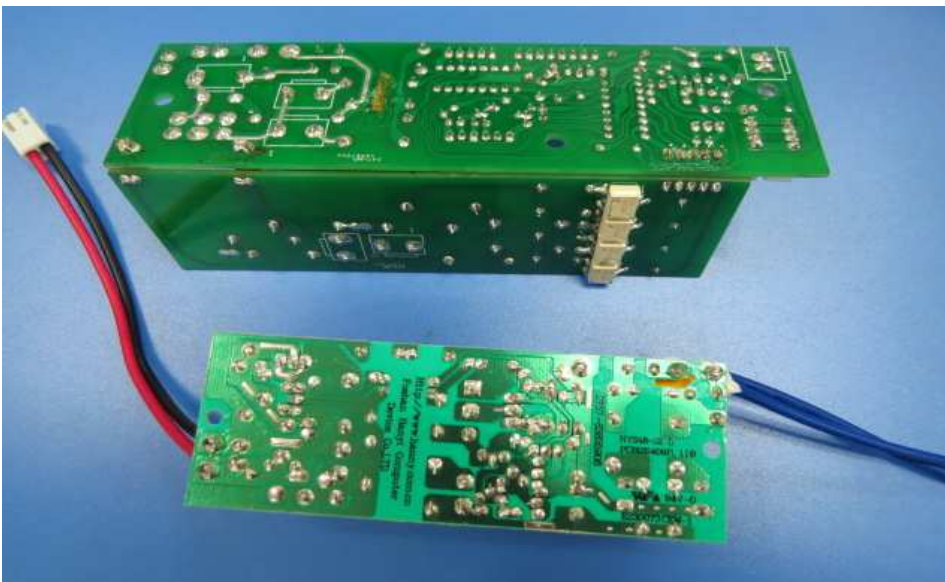
**Photo 29** - Internal view of model CWC-180C



**Photo 30** - Internal view of model CWC-180C

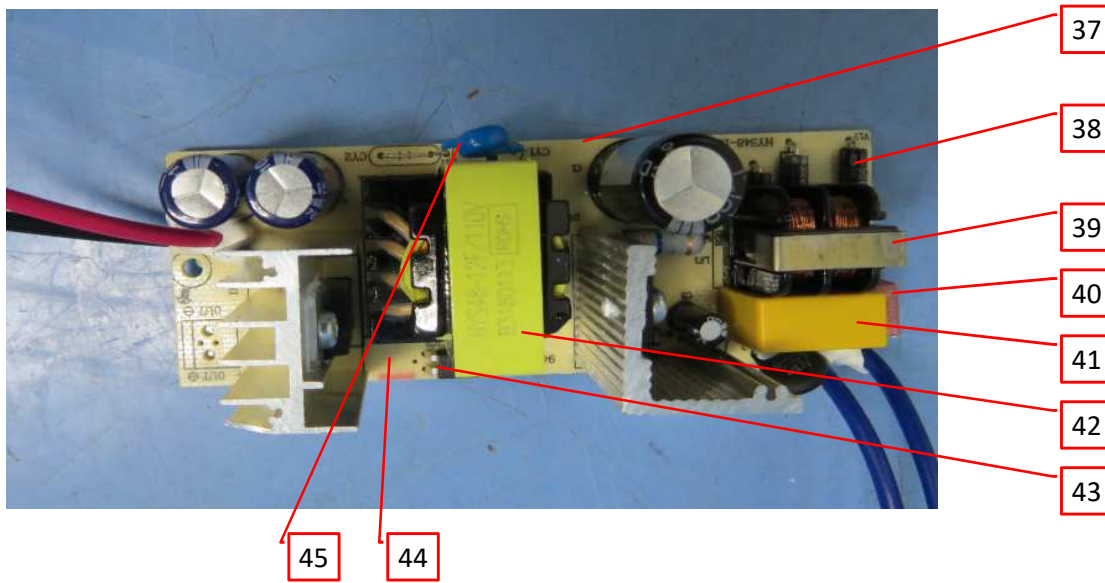


**Photo 31** - Internal view of model CWC-180C

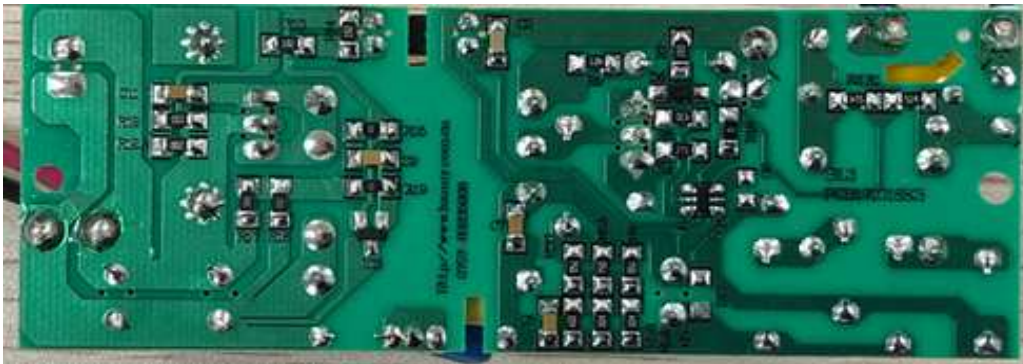


**3.0 Product Photographs**

**Photo 32-** Alternative switching power supply for all models



**Photo 33-** Alternative switching power supply for all models



**Photo 34-** External views of CWC-90BF





**3.0 Product Photographs**

**Photo 35-** External views of CWC-150BF



**Photo 36-** External views of CWC-75A



### 3.0 Product Photographs

Photo 37- External views of CWC-75B



4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
16	1	Glass panel and Frames assembly	Various	Various	Two tempered glasses. The thickness of single layer is 4 mm, the upper, lower, left and right frames are connected by screws inside. The Door Frame covers the Glass Panel Subassembly.	NR
16	2	Metal enclosure	Various	Various	Painted sheet steel for top and two sides, 0.5 mm thick. Foam with steel for rear, 0.4 mm thick.	NR
17	3	Power Supply Cord	Various	Various	SJT, 18 AWG/3C, rated: 300 V, 105 °C, VW-1, length: 1.5 -3 m, molded with a strain relief, terminated in a NEMA Config 5-15P plug.	cULus or cETLus
19	4	Capacitor for Compressor	EPCOS (ANHUI) FEIDA ELECTRONICS CO LTD	CBB65A-2	450 V, 50/60 Hz, 10±5% µF.	cURus
			SHANGHAI HAOYE ELECTRIC CO LTD	STR	250VAC, 50/60 Hz, 8±5% µF.	cURus
			SHANGHAI HAOYE ELECTRIC CO LTD	MKP Series	250VAC, 50/60 Hz, 8±5% µF.	cURus
			NINGGUO YUHUA ELECTRICAL PRODUCTS CO LTD	CBB65-A	250VAC, 50/60 Hz, 8±5% µF.	cURus
			SHANGHAI HAOYE ELECTRIC CO LTD	MKP Series	450VAC, 50/60 Hz, 20±5% µF, for compressor EMYS55CLC	cURus
19	5	Condenser fan for all models	Xinruilian Electric (Shenzhen) Co., Ltd.	RDL1225S	DC12 V, 0.28 A.	cURus
			SHENZHEN DINGDAO TECHNOLOGY CO LTD	DD92DBVM-012	DC12 V, 0.16 A.	cURus
				DD120DSVL-012	DC12 V, 0.18 A.	cURus
19	6	Capillary Tube	Various	Various	Outside diameter 1.8 mm, thickness 0.5 mm, Length: 1600 mm	NR
19	7	Electric Box	Various	Various	Painted sheet, 0.4 mm thick. Fixed to side of enclosure and enclose the electric component.	NR
			JIAXIPERA COMPRESSOR CO LTD	JK1111HY	Rated 115 V, 60 Hz, 1.0 A, for CWC-70 series, CWC-90 series, CWC-100 series, CWC-120 series, CWC-150 series, CWC-160 series, CWC-180 series, CWC-200 series	cURus

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
19	8	Compressor	JIAXIPERA COMPRESSOR CO LTD	N1116HY	Rated 115 V, 60 Hz, 1.0 A, for CWC-350A, CWC-350B, CWC-450A, CWC-450B	cURus
			WHIRLPOOL SA	EMYS45CLP	Rated 115-127V, 60HZ, LRA 5.4, R600a, 1PH, Thermally protected. For mdoels CWC-90 series, CWC-100 series, CWC-120 series, CWC-150 series, CWC-160 series, CWC-200 series, CWC-70A, CWC-180C	cURus
			JIAXIPERA COMPRESSOR CO LTD	MM1060HY	Rated 115-127V, 60HZ, LRA 4.7, R600a, 1PH, Thermally protected. For mdoels CWC-90 series, CWC-100 series, CWC-120 series, CWC-70A	cURus
			JIAXIPERA COMPRESSOR CO LTD	TU1110HY	Rated 115-127V, 60HZ, LRA 6.9, R600a, 1PH, Thermally protected. For mdoels CWC-70A, CWC-90 series, CWC-100 series, CWC-120 series, CWC-150 series, CWC-160 series, CWC-200 series, CWC-180C	cURus
			WHIRLPOOL SA	EMYS55CLC	Rated 115-127V, 60HZ, LRA 10.2, R600a, 1PH, Thermally protected. For mdoels CWC-350 series, CWC-450 series	cURus
			HUAYI COMPRESSOR (JINGZHOU) CO LTD	L48C5L	Rated 110-120V, 60HZ, R600a, 1PH, Thermally protected. For mdoels CWC-75 series.	cURus
19	9	PVC tube (not shown)	Various	Various	VW-1, 300 V, 105 °C	cURus
21	10	Internal wire	Various	1015	22-18 AWG, 600 V, 105 °C used for compressor and power connection.	cURus or cETLus
			Various	1015	18 AWG, 600 V, 105 °C connect to PCB.	cURus or cETLus
			Various	1007	24-18 AWG, 300 V, 80 °C used for fan and other low voltage circuit connection. The wire were enclosed by metal electrical box.	cURus or cETLus
21	11	Strain relief(not shown)	LG CHEMICAL (GUANGZHOU) ENGINEERING PLASTICS CO LTD	ABS	94 V2, 0.5 mm thick, hold the cord securely and fix to bottom.	cURus
21	12	Power switching Transformer	FOSHAN HANYI COMPUTER DEVICE CO LTD	HYS48-12D	Input: 100-120V, 60Hz; Output: 12V, 3.6A,	cURus
21	13	Relay	XIAMEN HONGFA ELECTROACOUSTIC CO LTD	JQX-14FW	AC 250 V, 16 A	cURus

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
21	14	PCB Material	KINGBOARD LAMINATES HOLDINGS LTD	KB3135	94V-0, 130 °C, 1.6 mm	cURus
			ZHONGSHAN LIXIN CHAIN-BOARD CO LTD	CEM-1	94V-0, 130 °C, 1.6 mm	cURus
21	15	Fuse	Various	Various	10 A, 250 VAC, 5x20 mm	cURus
22	16	Fan for cool air for all models	Xinruilian Electric (Shenzhen) Co., Ltd.	RDL1225B	DC12 V, 0.18 A, 2 pc used in model CWC-150C1 and CWC-150C2, 1 pc used in other model.	cURus
			SHENZHEN DINGDAO TECHNOLOGY CO LTD	DD92DBVM-012	DC12 V, 0.16 A, 2 pc used in model CWC-150C1 and CWC-150C2, 1 pc used in other model.	cURus
22	17	Inside enclosure	SHENZHEN SIP NEW MATERIALS CO LTD	ABS, JA-411	all color, rated 94V-0, 60 °C, thickness 1.5 mm	cURus
22	18	Fan for cool air (not shown)	Xinruilian Electric (Shenzhen) Co., Ltd.	RDL1225S	DC12 V, 0.28 A, 1 pc used.	cURus
			SHENZHEN DINGDAO TECHNOLOGY CO LTD	DD92DBVM-012	DC12 V, 0.16 A, for models CWC-90B, CWC-100B, CWC-120B, CWC-160B, CWC-200B.	cURus
				DD120DSVL-012	DC12 V, 0.18 A, for models CWC-150B, CWC-350B, CWC-450B.	cURus
22	19	Wood sheft	Various	Various	choose piece of wood shelf as need, the sheft can't be pull out.	NR
22	19A	Steel sheft (not shown)	Various	Various	made of steel rod, outside diameter min. 3.6 mm; 4.0 mm for CWC-75 series.	NR
23	20	Evaporator Coil	Various	Various	Aluminium tube, outside diameter 8 mm, thickness 0.75 mm, refer illustration 4.1 to 4.6 for details.	NR
24	21	Quick connector	ZHEJIANG KUAILI ELECTRONICS CO LTD	KL series	AC 250 V, 5 A	cURus
24	22	Fiberglass sleeving	Various	Various	VW-1, 300 V, 150 °C	cURus
24	23	Fan for hot air	Xinruilian Electric (Shenzhen) Co., Ltd.	RDL9025S	DC12 V, 0.16 A, 1 pc used in model CWC-90B, CWC-100B, CWC-120B, CWC-150B, CWC-160B, CWC-200B, CWC-350B, CWC-450B.	cURus
			SHENZHEN DINGDAO TECHNOLOGY CO LTD	DD92DBVM-012		cURus
24	24A	PTC heater element assembly(not shown)	ZHEJIANG XINTONG ELECTRONIC CO LTD	RFB	AC 110V-120V, include below item 24~26.	NR

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
24	24B	PTC heater element assembly(not shown)	Zhongshan Minea Electrical Appliance Co.,Ltd	MA-1,	AC 110V-120V, include below item 34~36.	NR
24	24	PTC heater element	ZHEJIANG XINTONG ELECTRONIC CO LTD	XTMZ02	120-240 V, 1.0 A	cURus
24	25	PTC heater bracket	GUANGZHOU PENGYUN ENGINEERING PLASTICS CO LTD	A7	NC, 1.5 mm thick, V-0, 130 °C	cURus
24	26	Temperature limiter (not shown)	CHANGZHOU CITY CHANGLIAN RADIO CO LTD	CR-KW70	Open temperature 70 °C	cURus
24	27	Condenser (not shown)	Various	Various	Galvanized steel tube, outside diameter 4 mm, thickness 0.5 mm, refer illustration 5.1 to 5.4 for details.	NR
16	33	Marking and Cautionary labels (not shown)	Various	Various	Rated at least 60°C. Suitable for sheet metal part, adhere rear side	cURus
24	34	PTC heater element	SHANGHAI PAKE THERMISTOR CERAMICS CO LTD	MZ45A245-252(120)	120V AC, 1.0 A	cURus
24	35	PTC heater bracket	LG CHEM (GUANGZHOU) ENGINEERING PLASTICS CO LTD	AF312T1, AF312B	NC, 2.1 mm thick, V-0, 75 °C	cURus
24	36	Temperature limiter (not shown)	DONGGUAN KAINYI ELECTRONIC SCI & TECH CO LTD	BW Series	open temperature 70 °C	cURus
32	37	Switching power supply	Foshan Hanyi Computer Device Co.,Ltd.	HYS48-12F	INPUT:110-120V, 50/60 Hz, 1A; OUTPUT: DC 12 V, 3.6 A, class 2, consist of components 38 to 45.	NR
32	38	Rectifier diode(D1,D2,D3,D4)	Various	Various	Rated min 600Vac, 0.5A	NR
32	39	Line chock(LF1)	GUANGDONG DETONG ELECTRONIC TECHNOLOGY CO.,LTD.	UU10.5-31	25mH, MIN	NR

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
32	40	Fuse (F1)	XC Electronics (Shen Zhen) Corp. Ltd.	5TE	AC250V,2.5A	cURus
			DONGGUAN HONGDA ELECTRONIC TECHNOLOGY CO.,LTD	2009	AC250V,2.5A	cURus
			SHANGHAI FULLNESS ELECTRICAL CO LTD	TSP	AC250V,2.5A	cURus
			DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932	AC250V,2.5A	cURus
32	41	X2 Capacitor (CX1)	Fengming Electronic Tech. Co., Ltd.	MKP-X2	AC250V;0.22μF; T105	cURus
			Dain Electronics Co., Ltd.	MPX	AC250V;0.22μF; T110	cURus
			Fuxin Pan Ocean Electronic Ltd.	MPX-X2	AC250V;0.22μF; T110	cURus
			Fuxin Pan Ocean Electronic Ltd.	MPX-X2	275/310 Vac; 0.22μF; T110	cURus
32	42	Transformer (TR1)	FOSHAN UM ELECTRONIC CO.LTD	HYT0204/A E28	Class 130	NR
			ZHONGSHAN CITY XINWEITE ELECTRONICS FACTORY	HYT0204/A E28	Class 130	NR
32	43	Optical Isolators (IC2)	Everlight Electronics Co., Ltd.	EL817	Double protection, providing 5000Vac isolation, 110°C min.	cURus
			Bright Led Electronics Corp.	BPC 817 C	Double protection, providing 5000Vac isolation, 100°C min.	cURus
			China Resources Semiconductor	PC817 C	Double protection, providing 5000Vac isolation, 110°C min.	cURus
32	44	PWB	Various	Various	V-0, 130°C;	cURus
32	45	Y1 Capacitor (CY1)	Haohua Electronic Co.,	CT7	AC250V;1000pF; T125	cURus
			WALSIN TECHNOLOGY CORP	AH	AC250V,1000pF; T125	cURus
			SHENZHEN SONGTE ELECTRONIC CO.,LTD	CT7	AC400V,1000pF; T125	cURus
			GUANGDONG HUIWAN ELECTRONICS TECHNOLOGY CO LTD	AR	AC500V,1000pF; T125	cURus

<b>4.0 Critical Components</b>						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
33, 34	46	Stainless steel door enclosure	Various	Various	Painted sheet steel, 0.6 mm thick.	NR
NOTES: 1) Not all item numbers are indicated (called out) in the photos, as their location is obvious. 2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used. 3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.						



## **5.0 Critical Unlisted CEC Components**

No Unlisted CEC components are used in this report.

## 6.0 Critical Features

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

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

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

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

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

1. Spacing - 1) In primary circuits of refrigerated compartment and air-handling compartments, minimum 3.2 mm and 6.4 mm spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity, and minimum 6.4 mm spacing between current-carrying parts and accessible dead metal parts or enclosure. 2) In non-refrigerated and non air-handling compartments, minimum 1.6 mm spacing is maintained through air and over surfaces of insulating material between current-

2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.

3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.

4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a metal 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 - NA

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 No(s). 4.1 to 4.5, 5.1 to 5.3, 6.4 to 6.10 for schematics requiring verification during Field Representative Inspection Audits.

9. Markings - The product is marked on a labeling system as described in item 33 of Section 4.0 with the following:

- applicant's name, trade name or trade mark
- model number
- date of manufacture
- electrical ratings (volts, amperes and frequency)
- the kind and amount of refrigerant in pounds, ounces, or both

Read Illustration No. 1, 1A, 1B, 1.1-1.2G for the layout.

10. Cautionary Markings - Caution marking is marked on a labeling system as described in item no. 33 of Section 4.0 as following:

1) "Free standing or Built-in Installation" "Free Standing Installation only"

"Debout Tout Seul Ou Seulement par Installation Incorporée" "Installation non encastrée seulement"

NOTE: this marking on or in the vicinity of the nameplate, with letters not less than 4.8 mm (3/16 inch) high, refer to Marking label shown;

2) other cautionary markings, refer to Illustration No(s). 2, 2A, 2B in section 7 shown;


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.

## 6.0 Critical Features

12. Carton Information - The shipping carton of a refrigerator or freezer that employs a flammable refrigerant shall be marked with proper handling instructions in compliance with the U.S. and Canadian government regulations. The warning marking described below shall also appear on the shipping carton:  
"CAUTION – Risk Of Fire Or Explosion Due To Puncture Of Refrigerant Tubing; Follow Handling Instructions Carefully. Flammable Refrigerant Used".  
"ATTENTION - RISQUE DE FEU OU D'EXPLOSION SI LA TUBULURE CONTENANT LE FRIGORIGÈNE EST PERFORÉE; SUIVRE LES INSTRUCTIONS DE MANUTENTION AVEC SOIN. LE FRIGORIGÈNE EST INFLAMMABLE".

## 7.0 Illustrations


### Illustration 1 - Marking

Zhongshan Minea Electrical Appliance Co.,Ltd.		
Compressor Wine Cooler		
Model:	CWC-100A	Conforms to UL STD.250 Certified to CSA STD.C22.2 NO.63 Free Standing Installation Installation seulement à pose libre
Electrical rating:	110-120 VAC, 60Hz, 1.2A	
Refrigerant/Charge:	R600a,1.0oz	
High side:	105 PSIG	
Low side:	55 PSIG	
Production date:		
Serial Number:		


Note: the nameplates for model CWC-120A, CWC-160A, CWC-200A are the same as above, except for model number

Zhongshan Minea Electrical Appliance Co.,Ltd.		
Compressor Wine Cooler		
Model:	CWC-100B	Conforms to UL STD.250 Certified to CSA STD.C22.2 NO.63 Free Standing Installation Installation seulement à pose libre
Electrical rating:	110-120 VAC, 60Hz, 1.2A	
PTC Heater rating:	110-120 VAC,60Hz,1.0A	
Refrigerant/Charge:	R600a,1.0oz	
High side:	105 PSIG	
Low side:	55 PSIG	
Production date:		
Serial Number:		

Note: the nameplates for model CWC-120B, CWC-160B, CWC-200B are the same as above except for model number

Zhongshan Minea Electrical Appliance Co.,Ltd.		
Compressor Wine Cooler		
Model:	CWC-450A	Conforms to UL STD.250 Certified to CSA STD.C22.2 NO.63 Built-in or Free Standing Installation Debout Tout Seul Ou Seulement par Installation Incorporée
Electrical rating:	110-120 VAC, 60Hz, 2.3A	
Refrigerant/Charge:	R600a,1.4oz	
High side:	105 PSIG	
Low side:	55 PSIG	
Production date:		
Serial Number:		


Note: the nameplate for model CWC-350A is the same as above,except for model number

Zhongshan Minea Electrical Appliance Co.,Ltd.		
Compressor Wine Cooler		
Model:	CWC-450B	Conforms to UL STD.250 Certified to CSA STD.C22.2 NO.63 Built-in or Free Standing Installation Debout Tout Seul Ou Seulement par Installation Incorporée
Electrical rating:	110-120 VAC, 60Hz, 2.3A	
PTC Heater rating:	110-120 VAC,60Hz,1.0A	
Refrigerant/Charge:	R600a,1.4oz	
High side:	105 PSIG	
Low side:	55 PSIG	
Production date:		
Serial Number:		


Note: the nameplate for model CWC-350B is the same as above,except for model number

## 7.0 Illustrations


### Illustration 1A - Marking

Zhongshan Minea Electrical Appliance Co.,Ltd.		
Compressor Wine Cooler		
Model:	CWC-70A	Conforms to UL STD.250 Certified to CSA STD.C22.2 NO.63 Built-in or Free Standing Installation
Electrical rating:	110-120 VAC, 60Hz, 1.2A	
Refrigerant/Charge:	R600a,1.0oz	
High side:	105 PSIG	
Low side:	55 PSIG	
Production date:		
Serial Number:	Debout Tout Seul Ou Seulement par Installation Incorporée	


Note: Marking of CWC-90A, CWC-90BF, CWC-150A,CWC-150C, CWC-150BF is same as above except the model number.

Zhongshan Minea Electrical Appliance Co.,Ltd.		
Compressor Wine Cooler		
Model:	CWC-90B	Conforms to UL STD.250 Certified to CSA STD.C22.2 NO.63 Built-in or Free Standing Installation
Electrical rating:	110-120 VAC, 60Hz, 1.2A	
PTC Heater rating:	110-120 VAC,60Hz,1.0A	
Refrigerant/Charge:	R600a,1.0oz	
High side:	105 PSIG	
Low side:	55 PSIG	
Production date:		
Serial Number:	Debout Tout Seul Ou Seulement par Installation Incorporée	

Note: Marking of CWC-150B is same as above except the model number.

Zhongshan Minea Electrical Appliance Co.,Ltd.		
Compressor Wine Cooler		
Model:	CWC-180C	Conforms to UL STD.250 Certified to CSA STD.C22.2 NO.63 Built-in or Free Standing Installation
Electrical rating:	110-120 VAC, 60Hz, 1.5A	
PTC Heater rating:	110-120 VAC,60Hz,0.7A	
Refrigerant/Charge:	R600a,1.4oz	
High side:	105 PSIG	
Low side:	55 PSIG	
Production date:		
Serial Number:	Debout Tout Seul Ou Seulement par Installation Incorporée	


### Illustration 1B - Marking

Zhongshan Minea Electrical Appliance Co.,Ltd.		
Compressor Wine Cooler		
Model:	CWC-75A	Conforms to UL STD.250 Certified to CSA STD.C22.2 NO.63 Free Standing Installation only Installation non encastrée seulement
Electrical rating:	110-120 VAC, 60Hz, 1.65A	
Refrigerant/Charge:	R600a,0.8oz (22g)	
High side:	105 PSIG	
Low side:	55 PSIG	
Production date:		
Serial Number:		

Note: Marking of CWC-75B is same as CWC-75A except the model number.


**7.0 Illustrations**

**Illustration 1.1 - Markings for ML NEWAIR ASIA CO., LTD**

<b>NewAir</b>		
<b>Compressor Wine Cooler</b>		
Model	AWR-520SB	
Power Supply	110-120 V / 60Hz	
Current	1.2A	
Refrigerant / Qty	R600a / 1.0 oz(28.6g)	
Design Pressure / High	105 psig	
Design Pressure / Low	55 psig	

Serial No.:

**Free standing or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**

<b>NewAir</b>		
<b>Compressor Wine Cooler</b>		
Model	AWR-460DB	
Power Supply	110-120V / 60Hz	
Current	1.2A	
PTC Heater rating	110-120V / 60Hz / 1.0A	
Refrigerant / Qty	R600a / 1.0oz (28.6g)	
Design Pressure / High	105 psig	
Design Pressure / Low	55 psig	


Serial No.:

**Free standing or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**

Note: Marking of AWR-400DB is same as AWR-460DB except the model number.


**7.0 Illustrations**

**Illustration 1.1A - Markings for ML NEWAIR ASIA CO., LTD**

<b>NewAir</b>		 <p>Conforms to UL STD.250                  Certified to CSA STD.C22.2 NO.63</p>
<b>Compressor Wine Cooler</b>		
Model	AWR-190SB	
Power Supply	110-120V / 60Hz	
Current	1.2A	
Refrigerant / Qty	R600a / 1.0oz (28.6g)	
Design Pressure / High	105 psig	
Design Pressure / Low	55 psig	

Serial No.:


**Free standing or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**

<b>NewAir</b>		 <p>Conforms to UL STD.250                  Certified to CSA STD.C22.2 NO.63</p>
<b>Beverage Cooler</b>		
Model	ABR-960	
Power Supply	110-120V / 60Hz	
Current	1.2A	
Refrigerant / Qty	R600a / 1.0oz (28.6g)	
Design Pressure / High	105 psig	
Design Pressure / Low	55 psig	

Serial No.:

**Free standing or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**

Note: Marking of AWR-310SB is same as above except the model number.

<b>NewAir</b>		 <p>Conforms to UL STD.250                  Certified to CSA STD.C22.2 NO.63</p>
<b>Compressor Wine Cooler</b>		
Model	AWR-290DB	
Power Supply	110-120V / 60Hz	
Current	1.2A	
PTC Heater rating	110-120V / 60Hz / 1.0A	
Refrigerant / Qty	R600a / 1.0oz (28.6g)	
Design Pressure / High	105 psig	
Design Pressure / Low	55 psig	


Serial No.:

**Free standing or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**

**7.0 Illustrations**

**Illustration 1.1B - Markings for ML NEWAIR ASIA CO., LTD**

<b>NewAir Beverage Cooler</b>	
Model	ABR-1770
Power Supply	110-120V / 60Hz
Current	1.2A
Refrigerant / Qty	R600a / 1.0 oz(28.6g)
Design Pressure / High	105 psig
Design Pressure / Low	55 psig




Conforms to UL STD.250  
 Certified to CSA STD.C22.2 NO.63

Serial No.:

**Free standing or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**

<b>NewAir Compressor Wine Cooler</b>	
Model	AWR-1160DB
Electrical rating	110-120V / 60Hz
Current	2.3A
PTC Heater rating	110-120V / 60Hz / 1.0A
Refrigerant/Qty	R600a / 1.4 oz (40g)
Design Pressure / High	105 PSIG
Design Pressure / Low	55 PSIG




Conforms to UL STD.250  
 Certified to CSA STD.C22.2 NO.63

Serial Number:

**Free standing or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**

<b>NewAir Compressor Wine Cooler</b>	
Model	AWR-1600DB
Electrical rating	110-120V / 60Hz
Current	2.3A
PTC Heater rating	110-120V / 60Hz / 1.0A
Refrigerant / Qty	R600a / 1.4oz (40g)
Design Pressure / High	105 PSIG
Design Pressure / Low	55 PSIG



Conforms to UL STD.250  
 Certified to CSA STD.C22.2 NO.63

Serial Number:

**Free standing or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**


Note: the marking label for other ML models are same as AWR-1600DB except model number, parameter, refer to base model for details.



**7.0 Illustrations**

**Illustration 1.2A- Markings for Whynter LLC**

<b>Whynter</b>	
<b>66 BOTTLE DUAL ZONE WINE COOLER</b>	
Model	BCR-291SB
Power Supply	110-120V / 60Hz
Current	1.2A
Refrigerant / Qty	R600a / 1.0oz
Design Pressure / High	105 psig
Design Pressure / Low	55 psig




Conforms to UL STD.250  
 Certified to CSA STD.C22.2 NO.63


Serial No.:

**Freestanding or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**

For warranty service, email: [support@whynter.com](mailto:support@whynter.com)



<b>Whynter</b>	
<b>66 BOTTLE DUAL ZONE WINE COOLER</b>	
Model	BWR-661DZ
Power Supply	110-120V / 60Hz
Current	1.5A
PTC Heater rating	110-120V / 60Hz / 0.7A
Refrigerant / Qty	R600a / 1.4oz
Design Pressure / High	105 psig
Design Pressure / Low	55 psig




Conforms to UL STD.250  
 Certified to CSA STD.C22.2 NO.63

Serial No.:

**Freestanding or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**

For warranty service, email: [support@whynter.com](mailto:support@whynter.com)



**7.0 Illustrations**

**Illustration 1.2B.1- Markings for ML Kalamera Inc**


**Kalamera**  
Beverage Cooler

Model	KRC-154BV-S
Power Supply	110-120V / 60Hz
Current	1.2A
Refrigerant / Qty	R600a, 1.0oz
Design Pressure / High	105 psig
Design Pressure / Low	55 psig

S/N:201803870001-096

**Free standing or Built-in Installation**

**Debout Tout Seul Ou Seulement par Installation Incorporée**



Conforms to UL STD.250  
 Certified to CSA STD.C22.2 NO.63

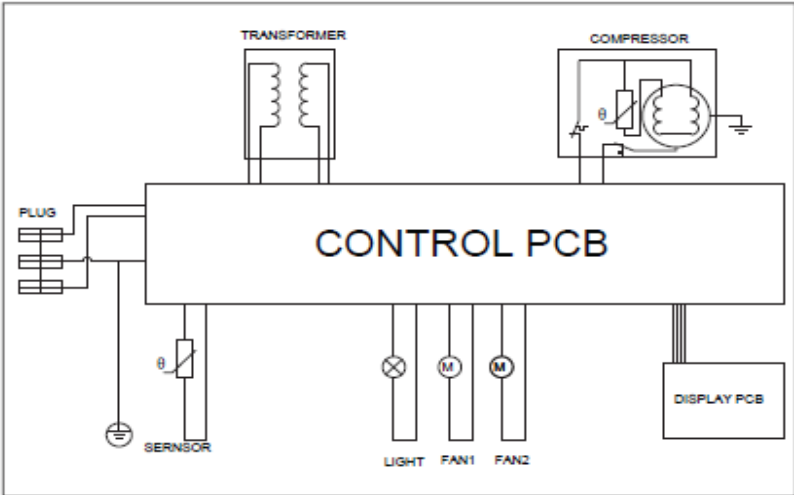
⚠ WARNING  
 Reproductive Harm-www.p65warnings.ca.gov.  
 Attention  
 Dommages reproductifs-www.p65warnings.ca.gov.

Note: the marking label for other ML models are same as KRC-154BV-S except model number, parameter, refer to base model for details.

**Illustration 1.2C- Markings for ML AKDY IMPORTS LLC.**


**WINE COOLER**

Free standing or Built-in Installation



**AKDY**  
 Model: AK-70A  
 PID:WC0032

SPECIFICATIONS	
CLIMATE CATEGORY	T/ST/N/SN
REFRIGERANT	R600a
AMOUNT	1.0 oz
RATED VOLTAGE	110-120V
RATED FREQUENCY	60Hz
RATED CURRENT	1.2A
POWER INPUT	90W
NET CAPACITY	70L
NET WEIGHT	29KG
SIZE(mm)	295x860x570
DESIGN PRESSURE / HIGHT	105 PSIG
DESIGN PRESSURE / LOW	55 PSIG
PRODUCT NO:	



Conforms to UL STD.250  
 Certified to CSA STD.C22.2 NO.63

Other Certification

**ShopRangeHoods.com**

Note: The markings have the same parameters as basic model which shown in Illustration No.1 and 1A.  
 Note: the marking label for ML models AK-75AJP, AK-75ASS, AK-75BJP, AK-75BSS, CWC-75A, CWC-75B, are same as AK-70A except model number, parameter, wiring diagram.


**7.0 Illustrations**

**Illustration 1.2E- Markings for ML WEILIANG CHEN**

<b>PHIESTINA</b>	
<b>Beverage Cooler</b>	
Model	PH-90FB
Power Supply	110-120V / 60Hz
Current	1.2A
Refrigerant / Qty	R600a, 1.0oz
Design Pressure / High	105 psig
Design Pressure / Low	55 psig

S/N:201803520001-66

**Free standing or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**



**Intertek**  
 3116560  
 Conforms to UL STD.250  
 Certified to CSA STD.C22.2 NO.63

**WARNING**  
 Reproductive Harm-www.p65warnings.ca.gov.  
 Attention  
 Dommages reproductifs-www.p65warnings.ca.gov.

Note: the marking label for other ML models are same as PH-90FB except model number, parameter, refer to base model for details.

**Illustration 1.2F- Markings for ML New air LLC**

<b>NewAir</b>	
<b>Beverage Cooler</b>	
Model	NBC096BS00
Power Supply	110-120V / 60Hz
Current	1.2A
Refrigerant / Qty	R600a / 1.0oz (28.6g)
Design Pressure / High	105 psig
Design Pressure / Low	55 psig

Serial No.:

**Free standing or Built-in Installation**  
**Debout Tout Seul Ou Seulement par Installation Incorporée**



**Intertek**  
 3116560  
 Conforms to UL STD.250  
 Certified to CSA STD.C22.2 NO.63

Note: The markings have the same parameters as basic model which shown in Illustration No.1 and 1A.  
 Note: the marking label for other ML models are same as NBC096BS00 except model number, parameter, refer to base model for details.

**7.0 Illustrations**

**Illustration 1.2G- Markings for ML C&A Marketing Inc**

# ivation

## BUILT-IN COMPRESSOR WINE COOLER

Model	IVBWCC403DSS
Power Supply	110-120V / 60Hz
Current	1.2A
Refrigerant / Qty	R600a / 1.0oz (28.6g)
Design Pressure / High	105 psig
Design Pressure / Low	55 psig



Conforms to UL STD. 250  
Certified to CSA STD. C22. 2 NO. 63

Serial No.:



Free-Standing or Built-In Installation  
Debout Tout Seul Ou Seulement par Installation Incorporée

Other Words

Note: the marking label for other ML models are same as IVBWCC403DSS except model number, refer to base model for details.

**7.0 Illustrations**

**Illustration 2 - Cautionary Marking**

	<p><b>DANGER</b> - Risk Of Fire Or Explosion. Flammable Refrigerant Used. To Be Repaired Only By Trained Service Personnel. Do Not Puncture Refrigerant Tubing.</p>		<p><b>DANGER</b> - Risque d'incendie ou d'explosion. Réfrigérant inflammable utilisé. Pour être réparé que par du personnel qualifié. Ne pas percer la tuyauterie du réfrigérant.</p>
<p><b>CAUTION</b> - 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.</p>	<p><b>AVERTISSEMENT</b> - Risque d'incendie ou d'explosion. Réfrigérant inflammable utilisé. Consultez réparation manuelle / propriétaire, guide avant d'essayer de réparer ce produit. Toutes les précautions doivent être suivies.</p>		
<p><b>CAUTION</b> - Risk Of Fire Or Explosion. Dispose Of Property In Accordance With Federal Or Local Regulations. Flammable Refrigerant Used.</p>	<p><b>AVERTISSEMENT</b> - Risque d'incendie ou d'explosion. Aliéner des biens conformément à la réglementation fédérale ou locale. Réfrigérant inflammable utilisé.</p>		
<p><b>CAUTION</b> - Risk Of Fire Or Explosion Due To Puncture Of Refrigerant Tubing, Follow Handling Instructions Carefully. Flammable Refrigerant Used.</p>	<p><b>AVERTISSEMENT</b> - Risque d'incendie ou d'explosion dus à la perforation des tuyaux de fluide réfrigérant, suivez attentivement les instructions remise. Réfrigérant inflammable utilisé.</p>		

**NOTE:** Above marking adhered on rear side surface of unit.

**NOTE:** Here above markings with letters height at least 6.4 mm:

**NOTE:** the height of triangle caution marking shall not less than 15mm.

**Illustration 2A - Cautionary Marking**

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 the wine cooler.**  
**ATTENTION : Pour empêcher un enfant d'être enfermée, maintenir hors de portée des enfants et pas près du refroidisseur à vin**

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.

**Illustration 2B - Caution Marking on carton**

Risk Of Fire Or Explosion, following the handing instructions in compliance with the U.S. and Canadian government regulations.  
 "CAUTION – Risk Of Fire Or Explosion Due To Puncture Of Refrigerant Tubing; Follow Handling Instructions Carefully. Flammable Refrigerant Used".  
 ATTENTION – RISQUE DE FEU OU D'EXPLOSION SI LA TUBULURE CONTENANT LE FRIGORIGÈNE EST PERFORÉE ; SUIVRE LES INSTRUCTIONS DE MANUTENTION AVEC SOIN. LE FRIGORIGÈNE EST INFLAMMABLE.

**NOTE:** Here above markings with letters height at least 6.4 mm:

## 7.0 Illustrations

### Illustration 3.1 - Instruction Manual

## Safety Precautions

⚡ WARNING ⚡

To reduce the risk of fire, electrical shock, or injury when using your appliance, follows these basic precautions;


- **PLEASE READ** all instructions before installing, operating, or servicing the appliance.
- **Danger and Warning:** Failure to follow this safety statement will result in severe personal injury or death, property or equipment damage.
- **RISK OF CHILD ENTRAPMENT.** Before you throw away your old refrigerator or freezer, take off the doors and leave shelves in place so children may not easily climb inside.
- **CAUTION . To Prevent A Child From Being Entrapped, Keep Out Of Reach Of Children And Not In The Vicinity Of Freezer (Or Refrigerator).**
- **⚠ SHOCK HAZARD - Eletrical Grounding required.**
  1. Consult a qualified electrician or serviceman if the grounding instructions are not completely understood or if doubt exists as to whether the appliance is properly grounded.
- Never attempt to repair or perform maintenance on the unit until the electricity has been disconnected.
- Never remove the round grounding prong from the plug and never use a two-prong grounding adaptor.
- Altering, cutting of power cord, removal of power cord, removal of power plug, or direct wiring can cause serious injury, fire and or loss of property and or life, and will void the warranty.
- Never use an extension cord to connect power to the unit.
- Always keep your working area dry.
- **CAUTION -** When installing, operating, moving or handling the unit, please be careful on the refrigerant tubing, the damage of the tubing will render the risk of Fire due to leakage of refrigerant which is flammable. When moving or handing the unit, following the below:
  1. Turn off the wine cooler and unplug from the outlet.
  2. Securely tape down all loose items inside.
  3. Close the door.
  4. When moving, the appliance can not be tilted over 45 degrees as possible damage to the sealed system could occur.
  5. Take care to avoid strong vibration or impact to the appliance.
  6. When moving the wine cooler, do take care and avoild to damage the refrigant tube, risk of fire or explosion
- In order to minimize the risk of possible ignition due to incorrect parts or improper service, please use only genuine supplier's replacement parts and that servicing shall be done by factory authorized service personnel.

## 7.0 Illustrations

### Illustration 3.2 - Instruction Manual(cont'd)

a) "DANGER – Risk Of Fire Or Explosion. Flammable Refrigerant Used. To Be Repaired Only By Trained Service Personnel. Do Not Puncture Refrigerant Tubing".



"Caution, risk of ", this symbol min. perpendicular height 15mm

b) "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".

c) "CAUTION – Risk Of Fire Or Explosion. Dispose Of Property In Accordance With Federal Or Local Regulations. Flammable Refrigerant Used".

d) "CAUTION – Risk Of Fire Or Explosion Due To Puncture Of Refrigerant Tubing; Follow Handling Instructions Carefully. Flammable Refrigerant Used".

## Important Precautions

- Do not lift unit by door handle.
- Never install or operate the unit behind closed doors.
- Be sure the kick-plate on the front bottom is free of obstruction. Obstructing free airflow can cause the unit to malfunction and will void the warranty.
- Failure to clean the condenser every six months can cause the unit to malfunction.
- Allow unit temperature to stabilize for 24 hour before use.
- Do not block any internal Fans.
- Use only genuine supplier's replacement parts. Imitation parts can damage the unit, affect its operation or performance and may void the warranty and that servicing shall be done by factory authorized service personnel

## Installation Instructions

Before using your wine cooler:

- Remove the exterior and interior packing
- Before connecting the appliance 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.
- Place your appliance on a floor that is strong enough to support the appliance when it is fully loaded.
- To level your appliance, adjust the front legs at the bottom of the appliance.

## Refrigerants

R600a is a kind of high performance green refrigerants, derived from natural ingredients, does not damage the ozone layer, without the greenhouse effect. Its characteristic is the strong cooling performance, low power consumption. All refrigeration products contain refrigerants, which under federal law must be removed prior to product disposal. If you are getting rid of an old refrigeration product, check with a qualified disposal company for instructions.

### Illustration 3.3 - Instruction Manual(cont'd)

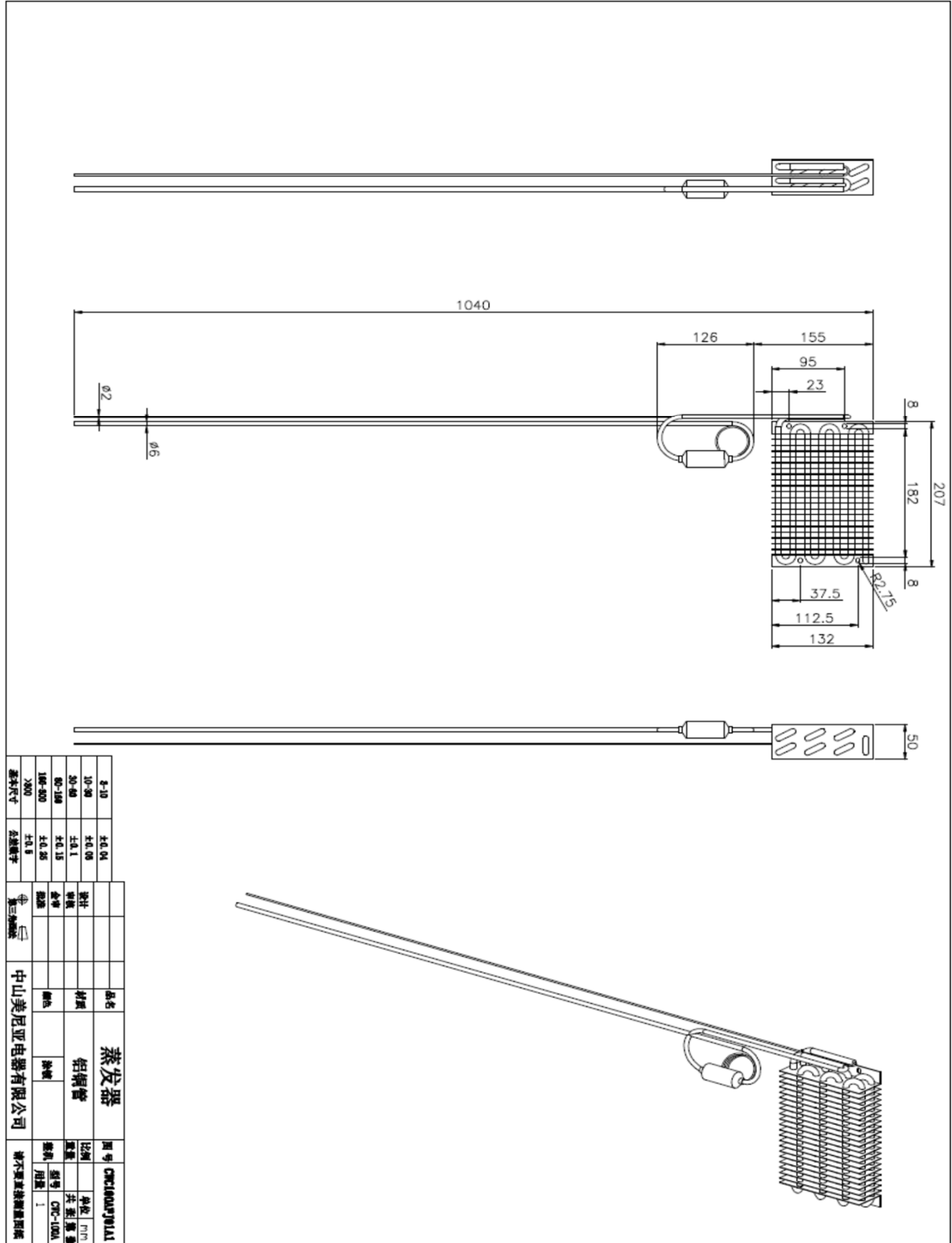
"DANGER: Risk of child entrapment. Before you throw away your old refrigerator or freezer:

- Take off door.
- Leave the shelves in place so that children may not easily climb inside.

**DO NOT USE AN EXTENSION CORD**

**7.0 Illustrations**

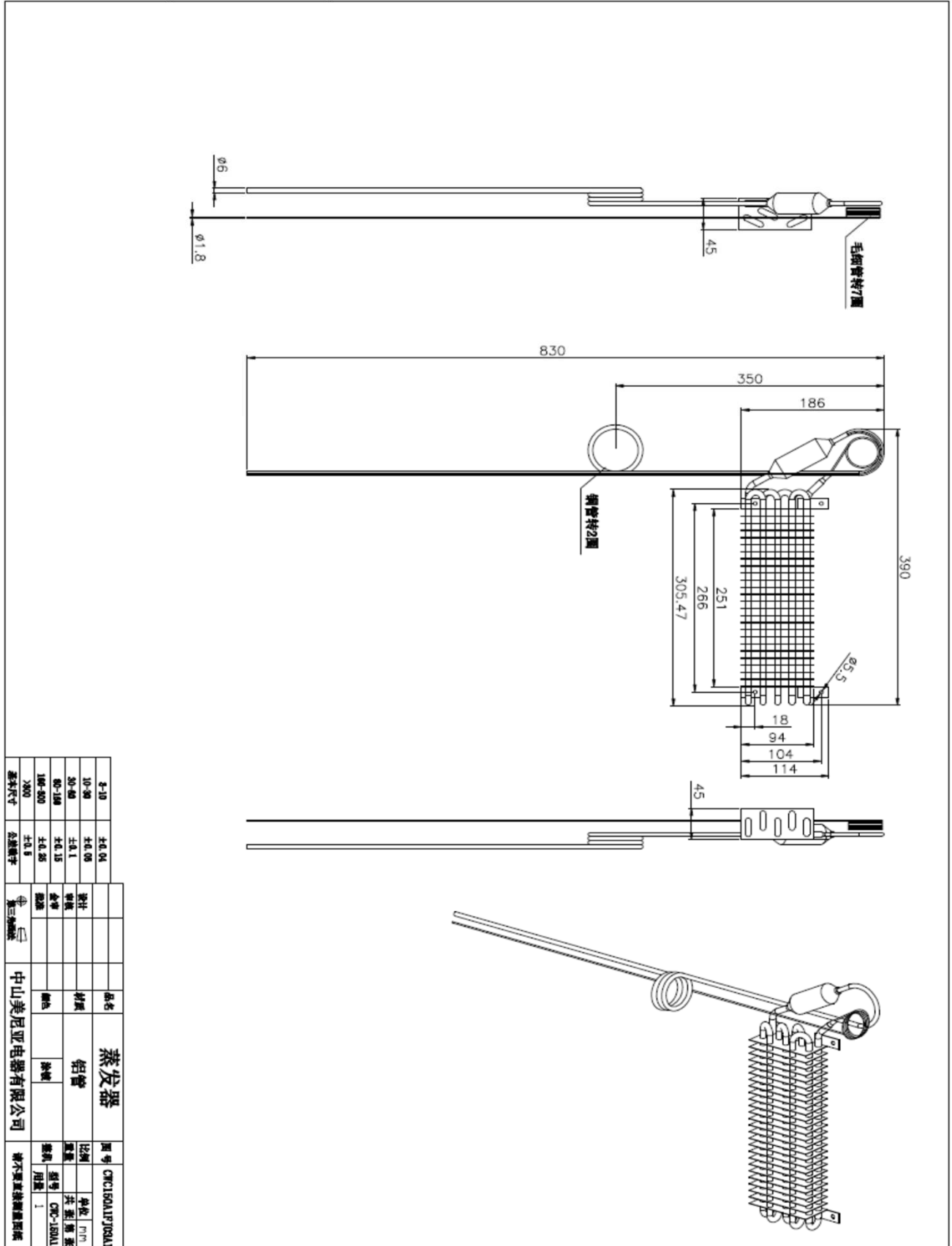
**Illustration 4.1 - Specification of Evaporator for CWC-100, CWC-120, CWC-160 and CWC-200 series**





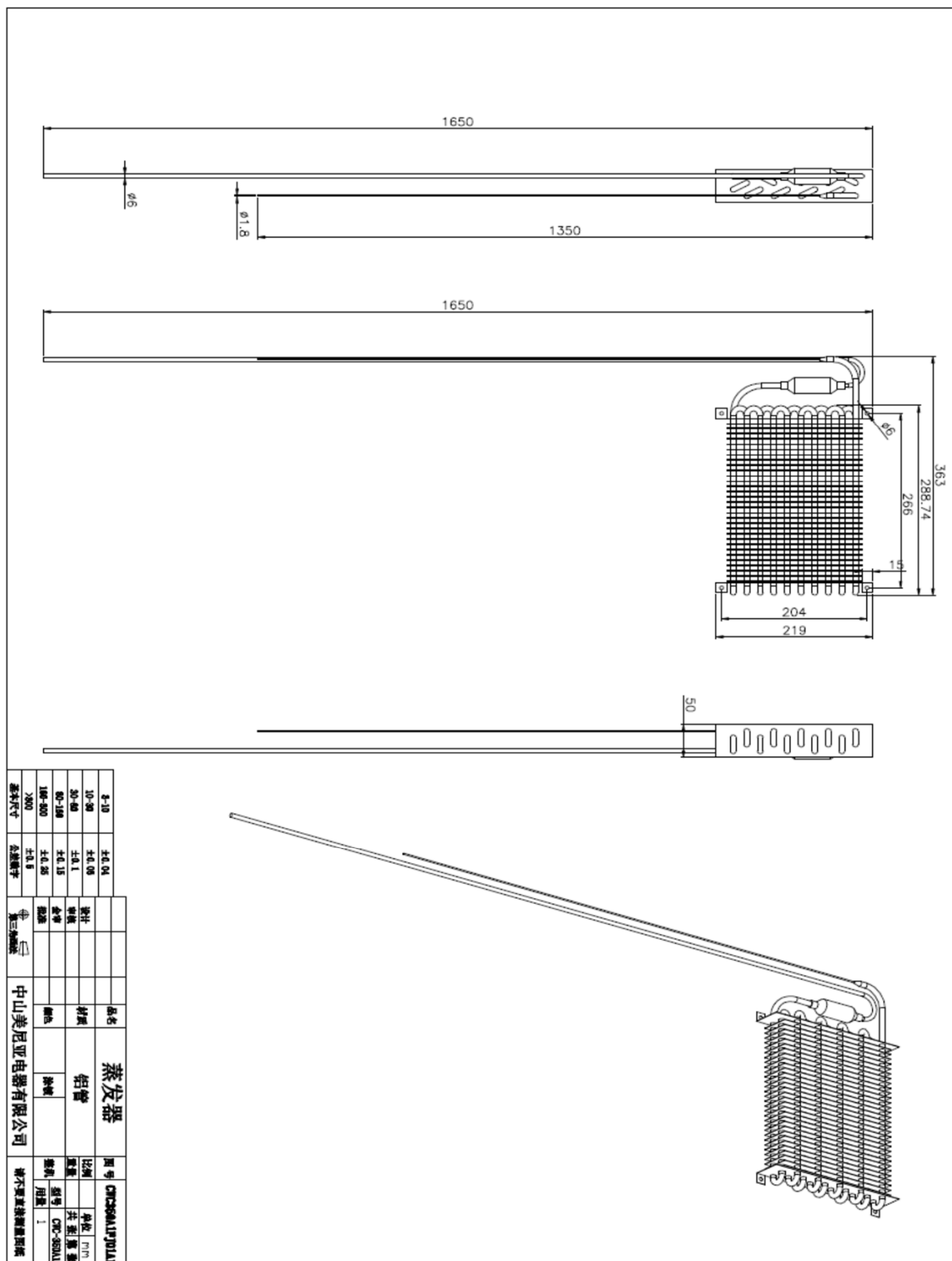
**7.0 Illustrations**

**Illustration 4.2 - Specification of Evaporator for CWC-150 series**



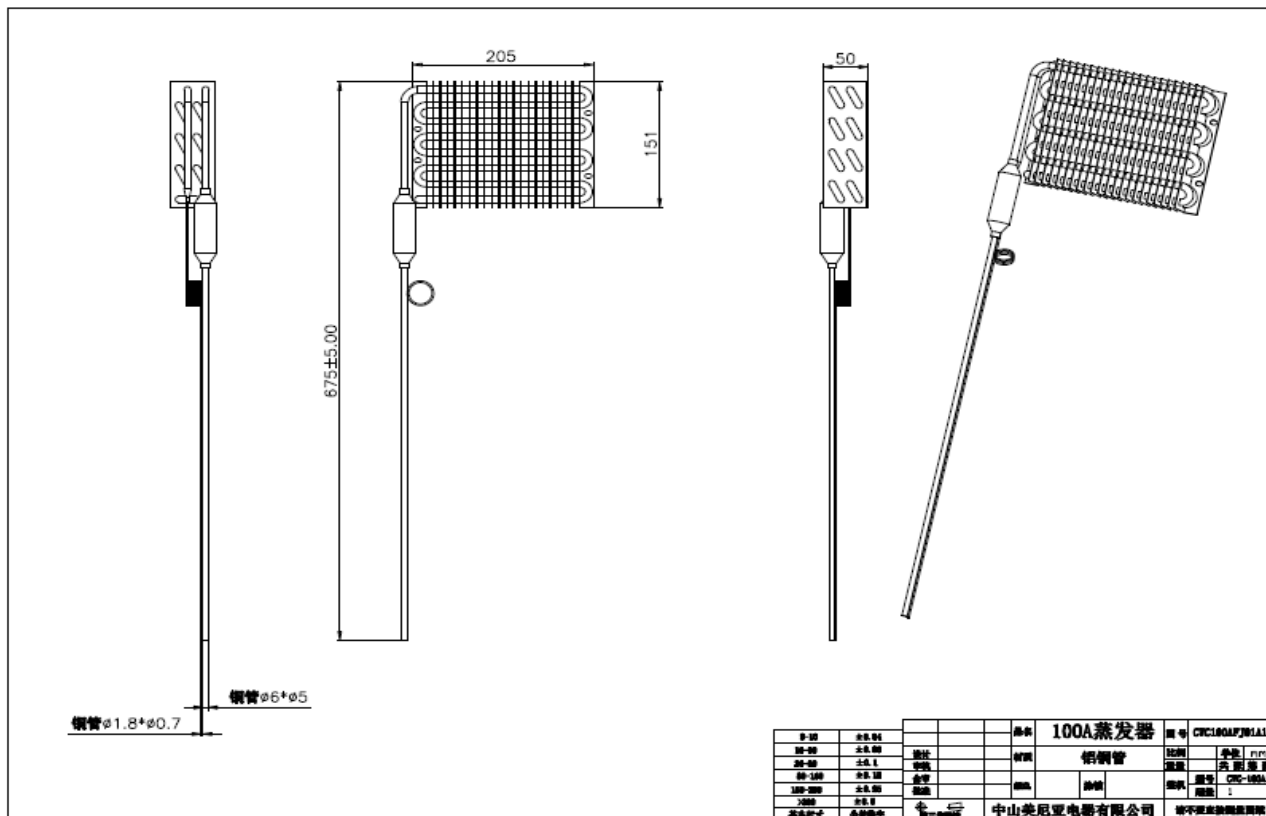
**7.0 Illustrations**

**Illustration 4.3 - Specification of Evaporator for CWC-350, CWC-450 series**

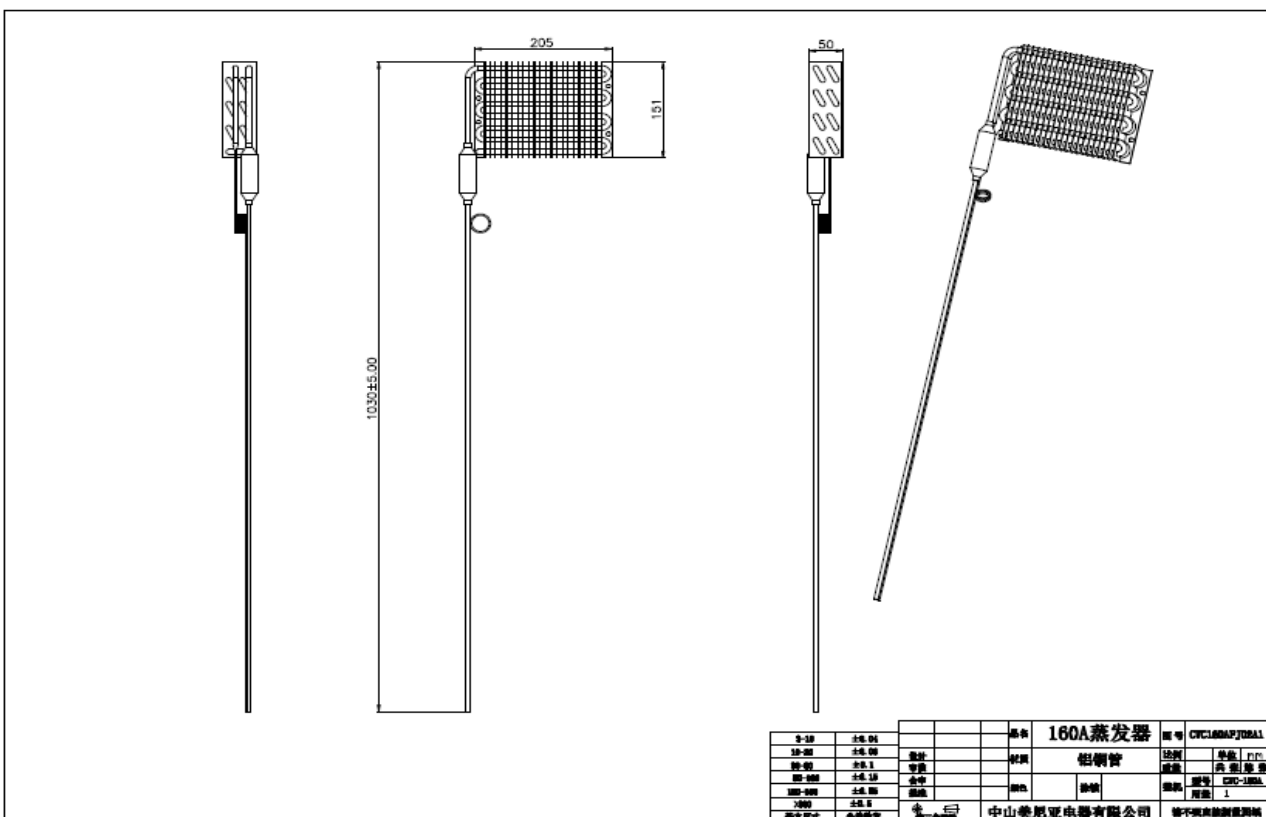


**7.0 Illustrations**

**Illustration 4.4 - Specification of Evaporator for CWC-180C (left side)**

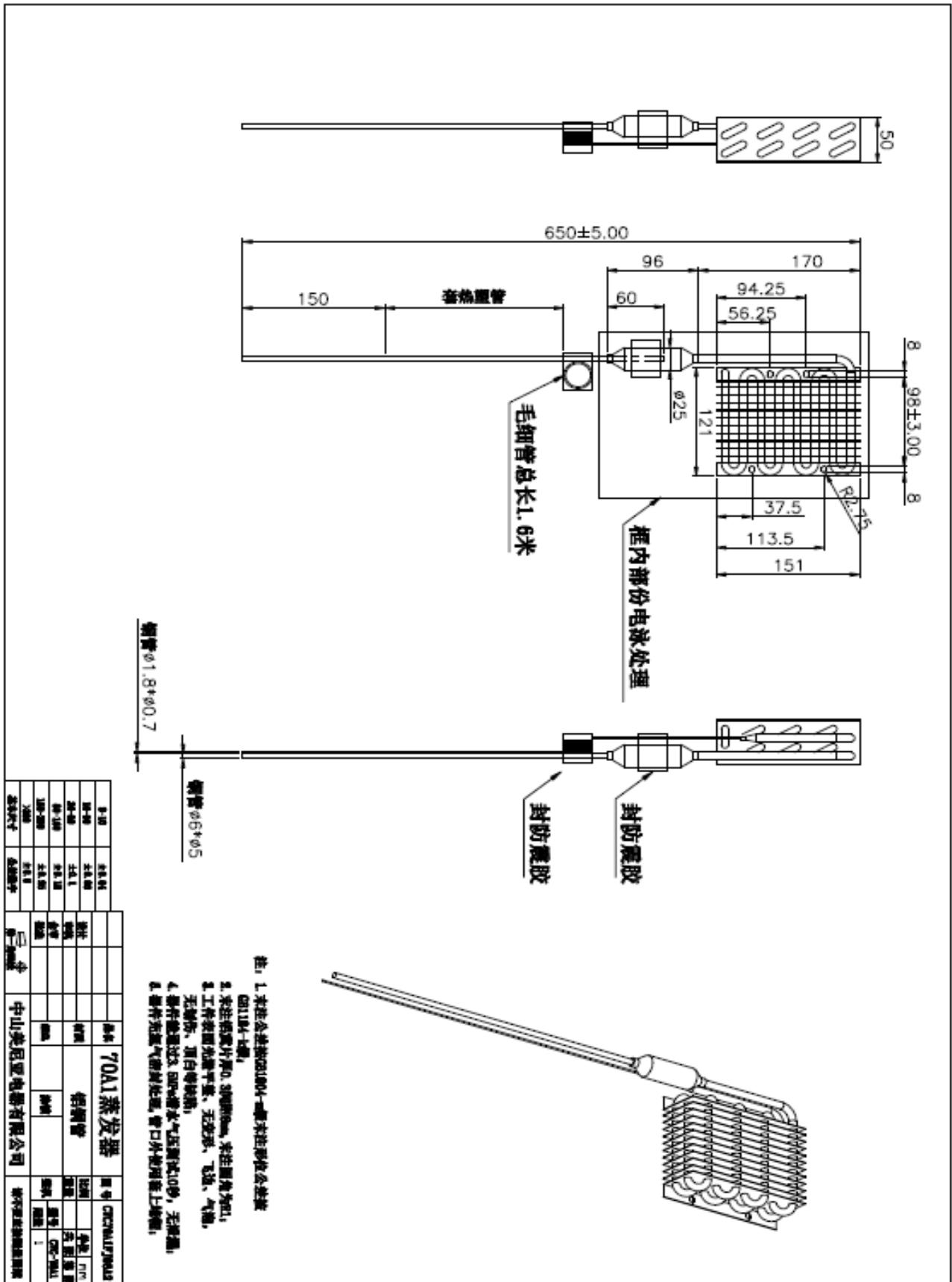


**Illustration 4.5 - Specification of Evaporator for CWC-180C (right side)**



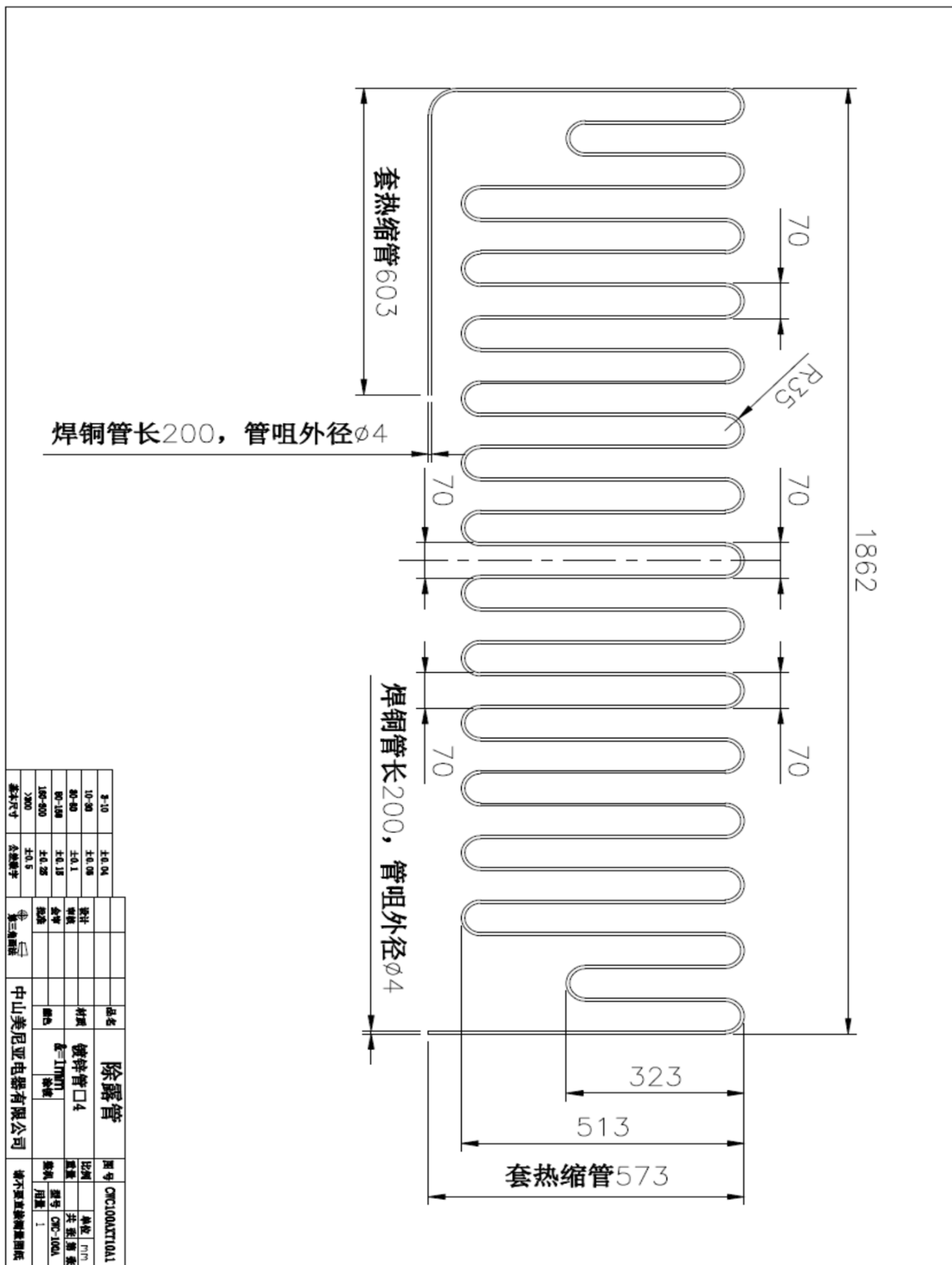
**7.0 Illustrations**

**Illustration 4.6 - Specification of Evaporator for CWC-70A, CWC-75A, CWC-75B**



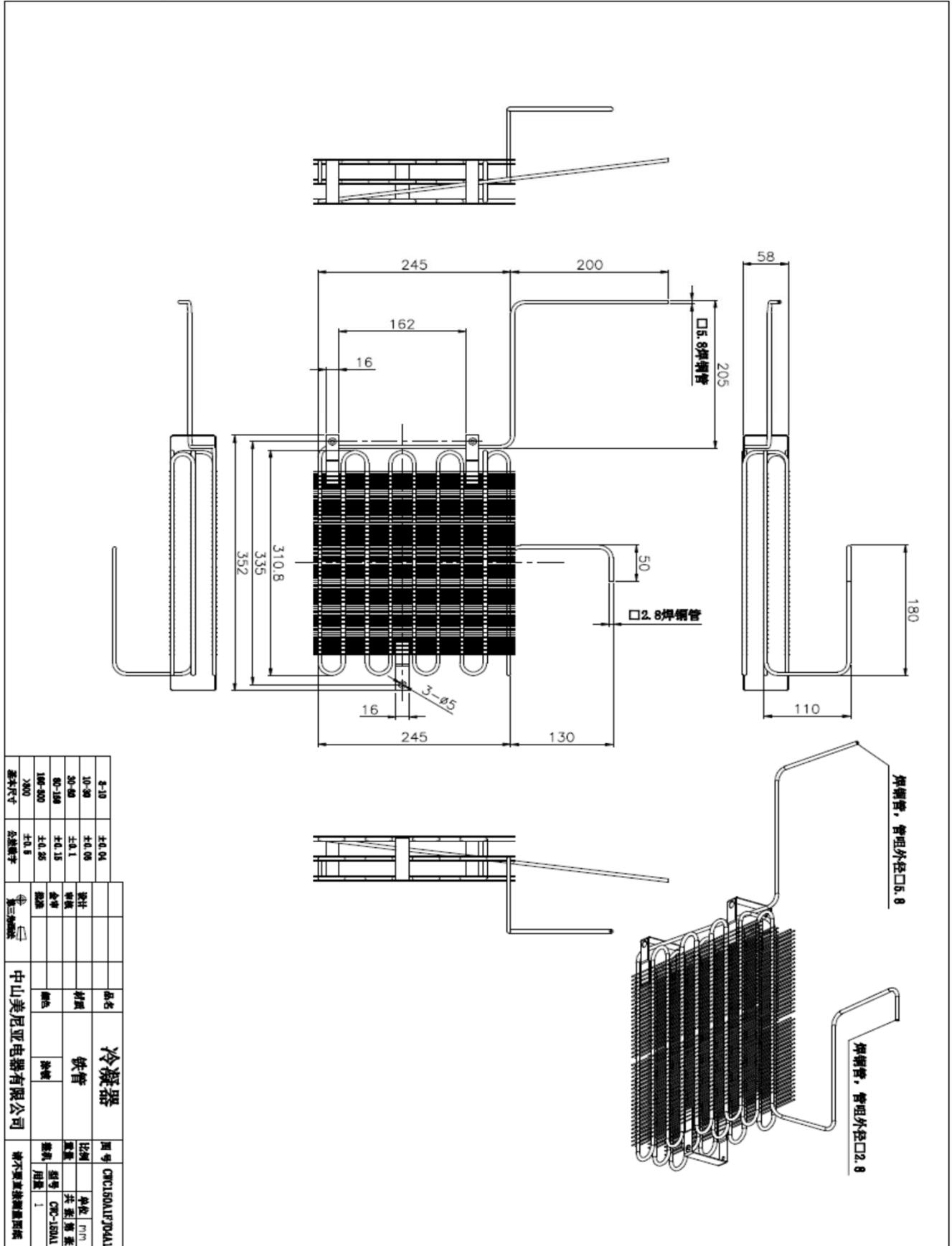
7.0 Illustrations

Illustration 5.1 - Specification of Condenser for CWC-100, CWC-120, CWC-160 and CWC-200 series



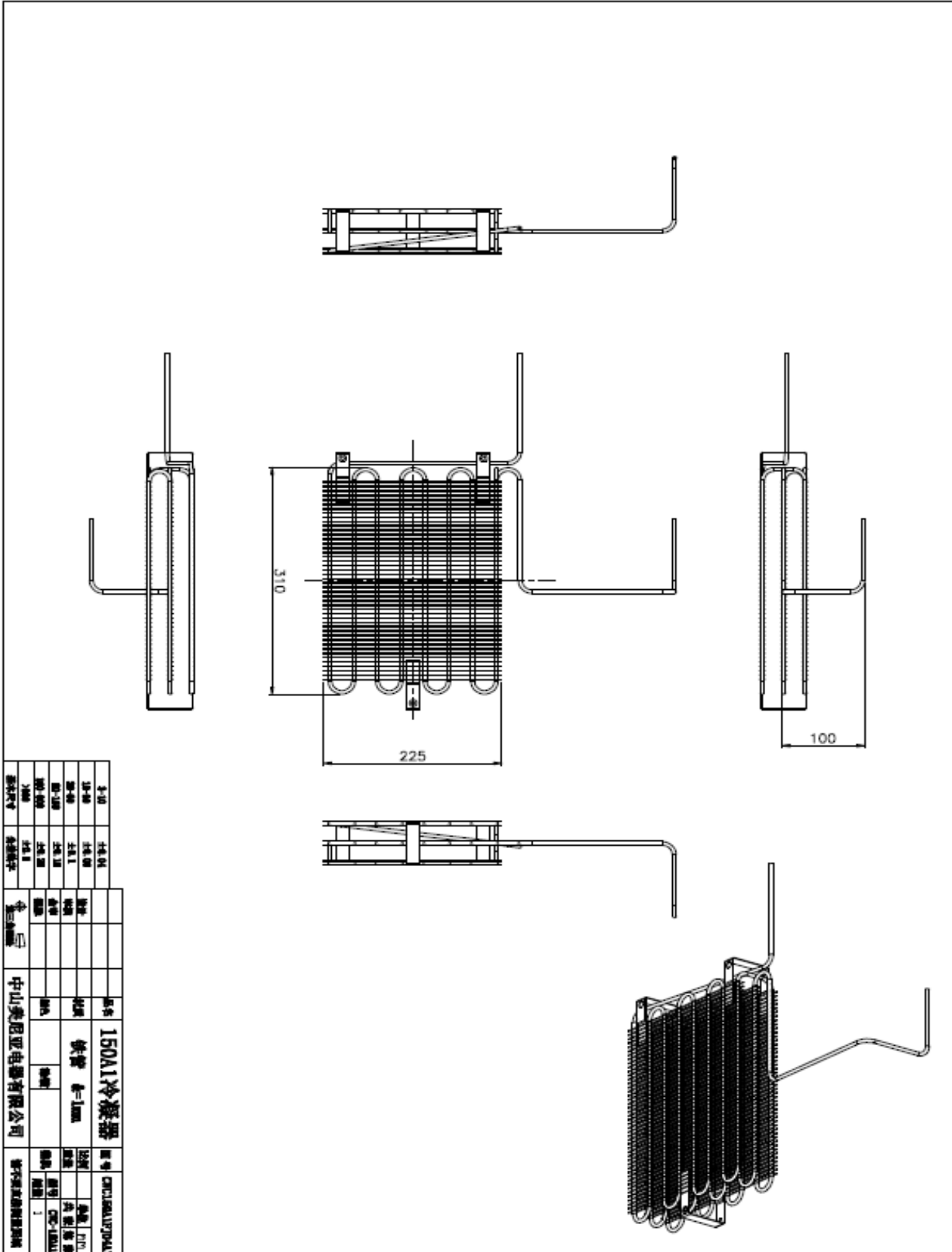
**7.0 Illustrations**

**Illustration 5.2 - Specification of Condenser for CWC-150, CWC-350, CWC-450 series**



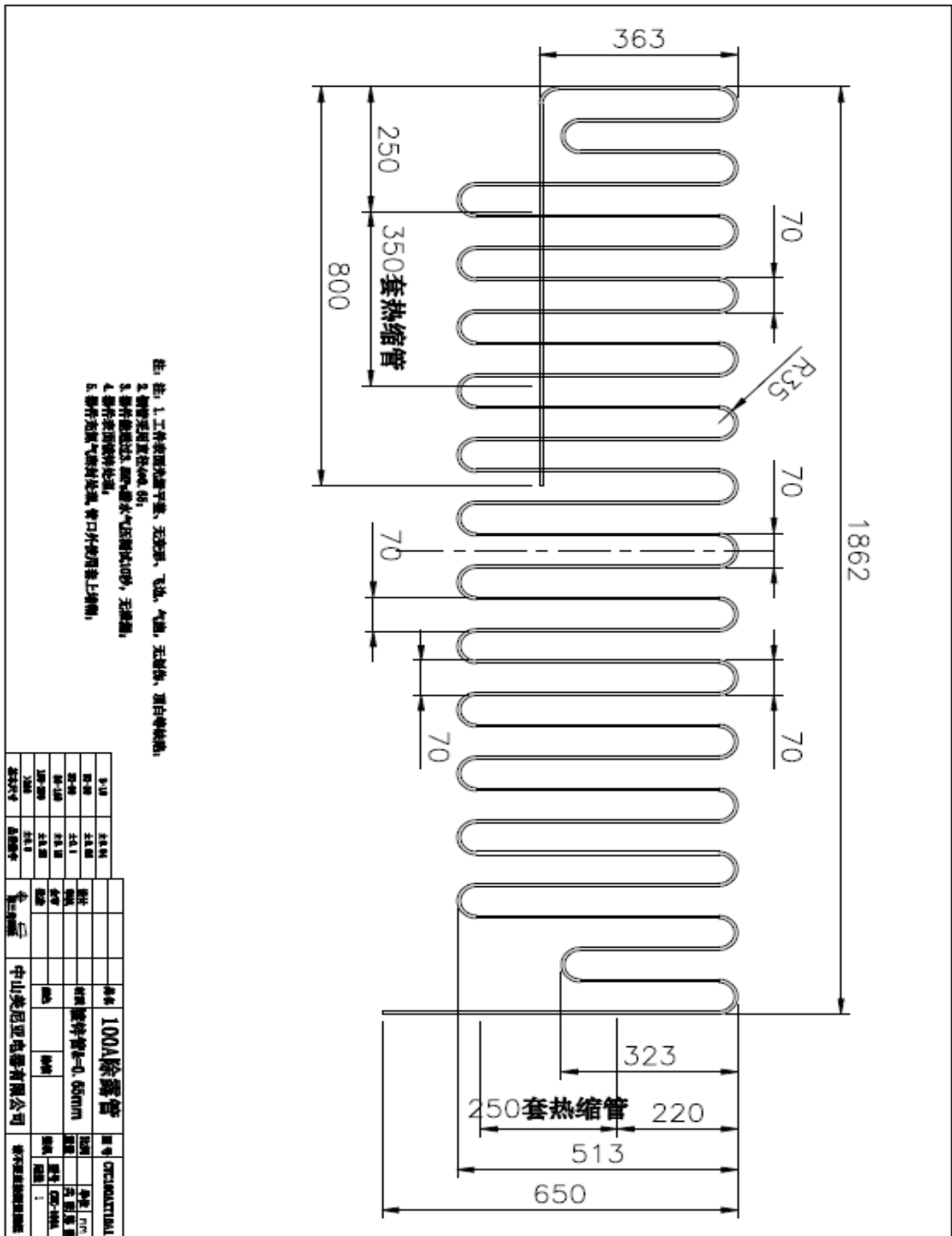
**7.0 Illustrations**

**Illustration 5.3** - Specification of Condenser for CWC-180C



**7.0 Illustrations**

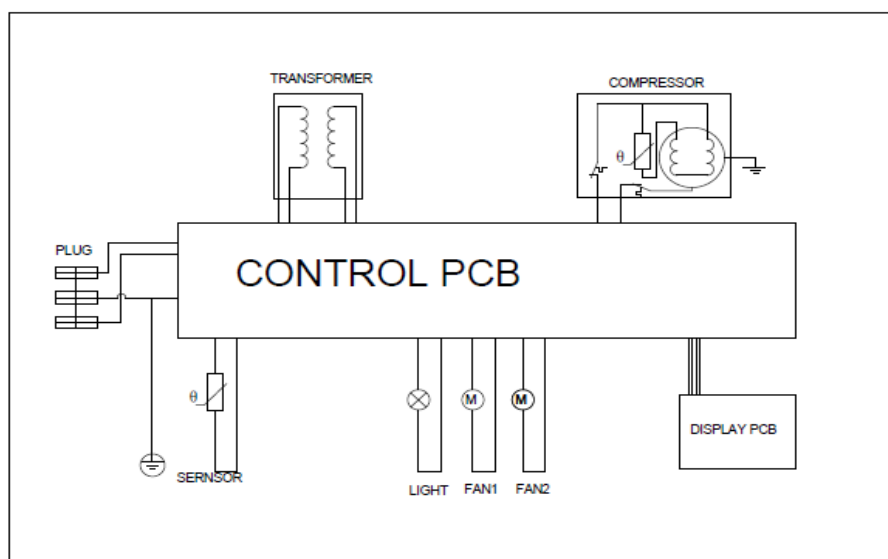
**Illustration 5.4 - Specification of Condenser for CWC-75A, CWC-75B**



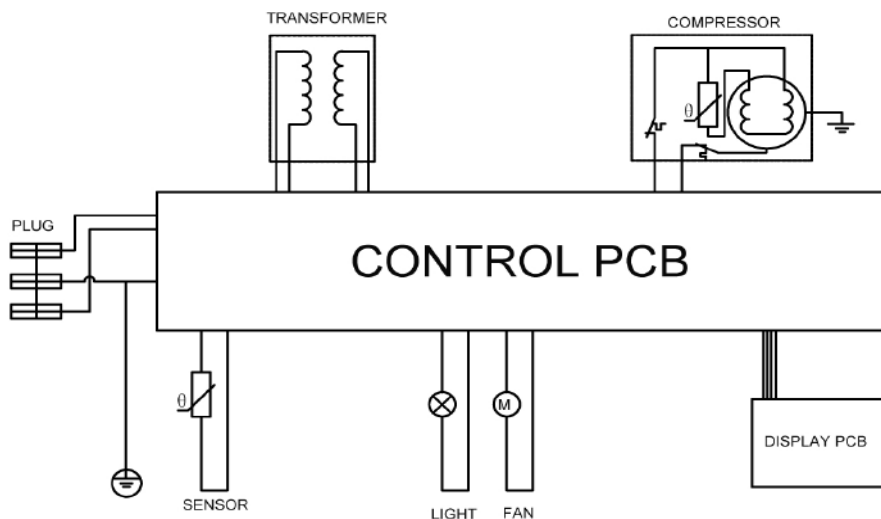


**7.0 Illustrations**

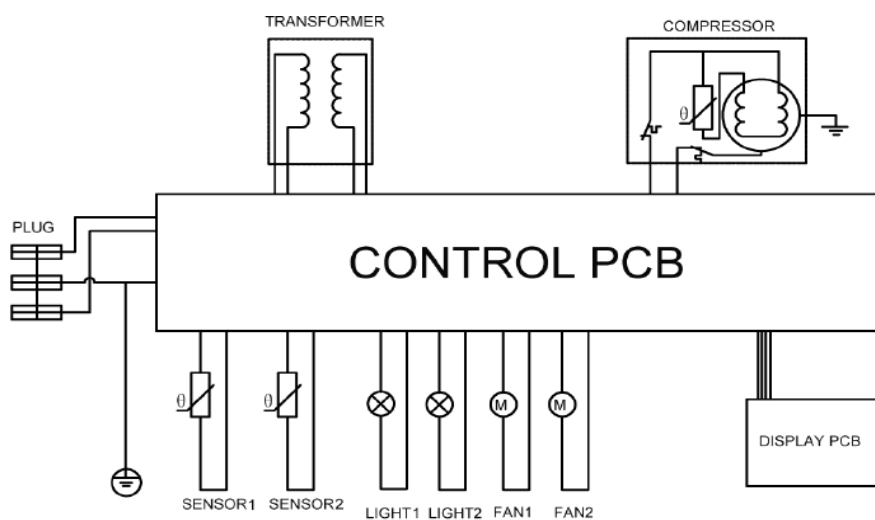
**Illustration 6.4** - Diagram of circuit for CWC-70A, CWC-100A, CWC-120A, CWC-160A, CWC-200A



**Illustration 6.4a** - Diagram of circuit for CWC-75A

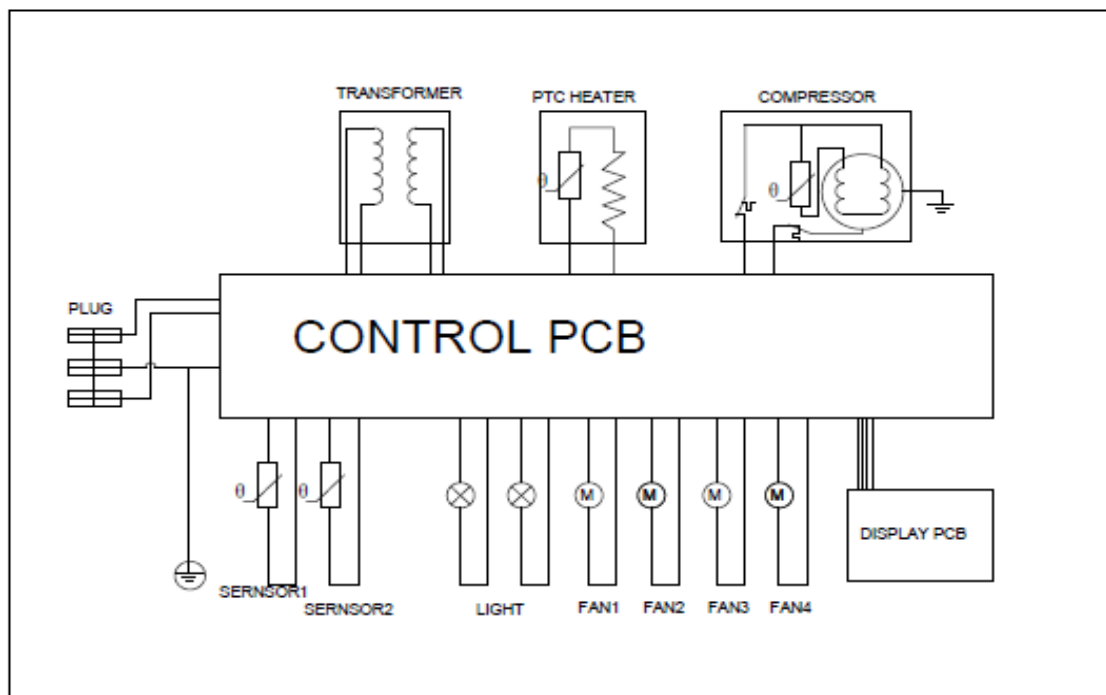


**Illustration 6.4b** - Diagram of circuit for CWC-75A

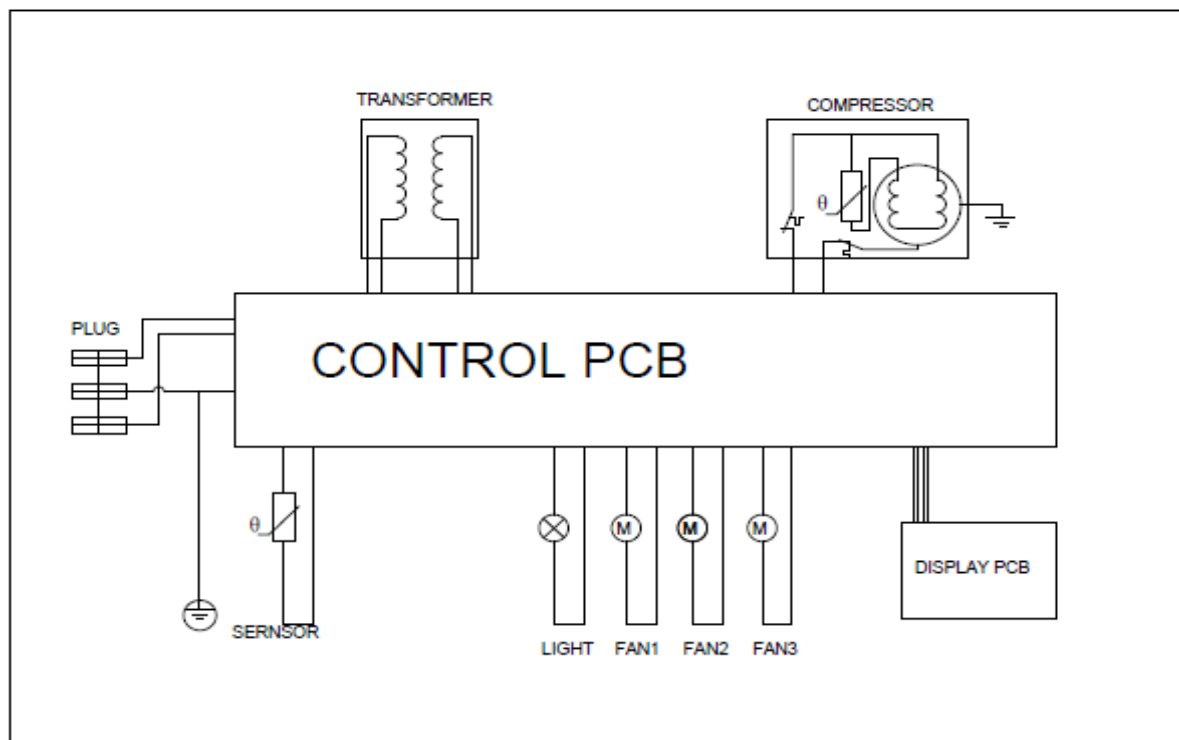


**7.0 Illustrations**

**Illustration 6.5** - Diagram of circuit for CWC-90B, CWC-100B, CWC-120B, CWC-160B, CWC-200B

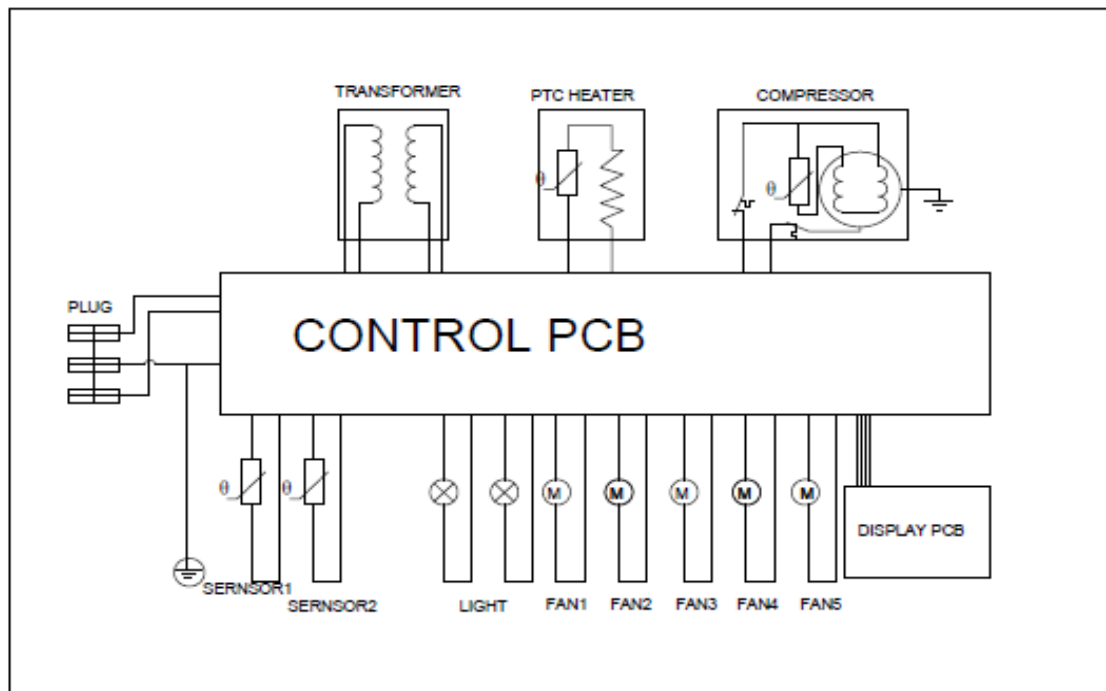


**Illustration 6.6** - Diagram of circuit for CWC-90A, CWC-150A

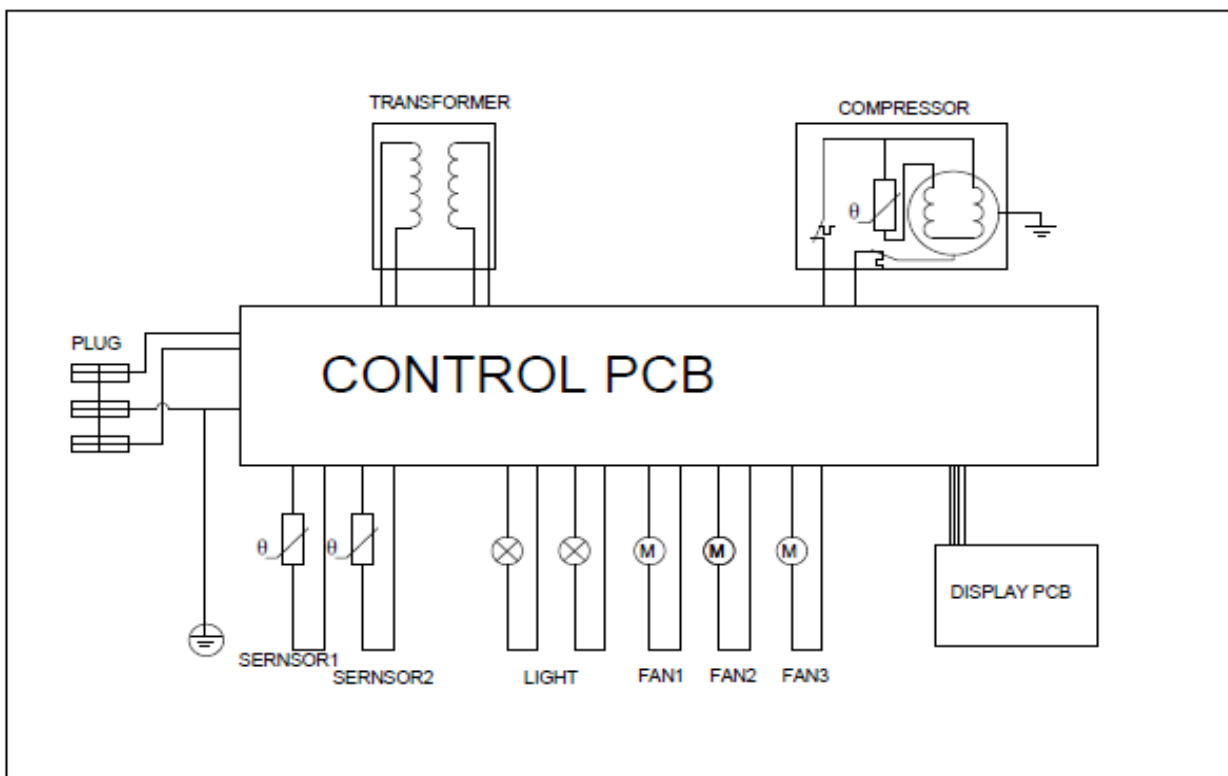


**7.0 Illustrations**

**Illustration 6.7** - Diagram of circuit for CWC-150B, CWC-350B, CWC-450B

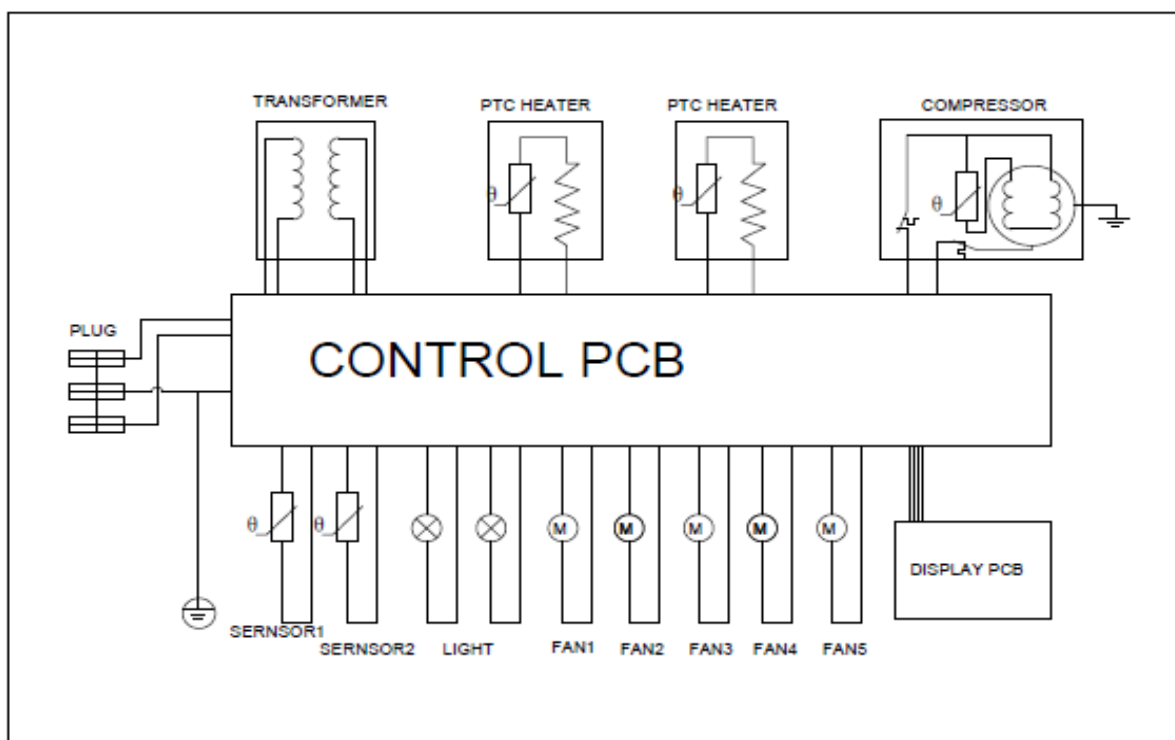


**Illustration 6.8** - Diagram of circuit for CWC-150C

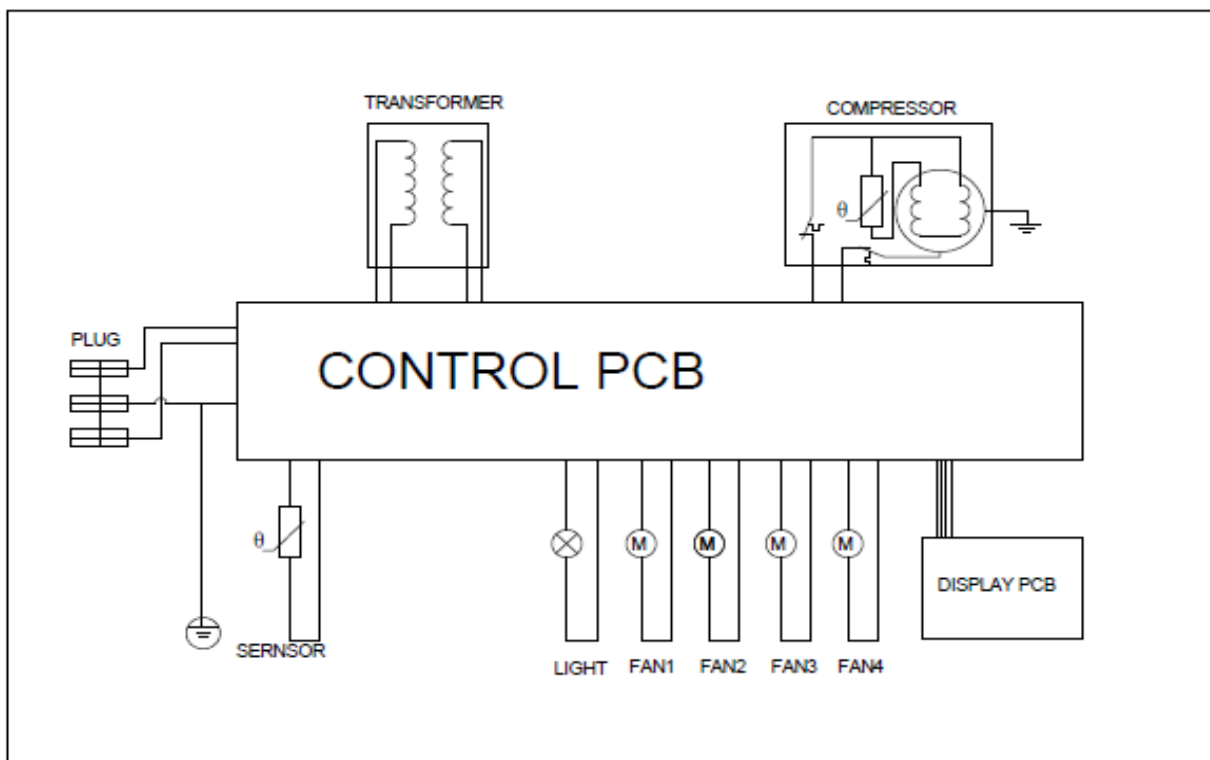


**7.0 Illustrations**

**Illustration 6.9** - Diagram of circuit for CWC-180C

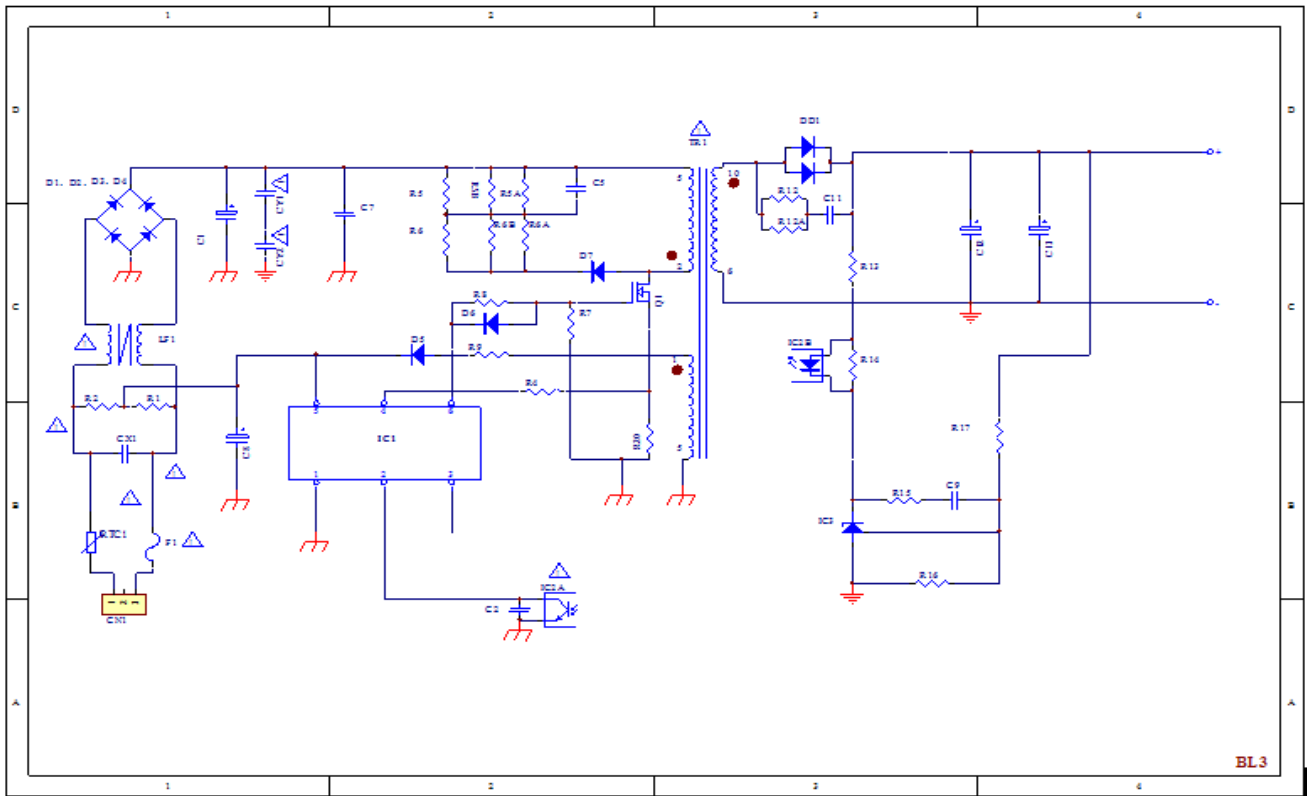


**Illustration 6.10** - Diagram of circuit for CWC-350A, CWC-450A



**7.0 Illustrations**

**Illustration 6.11** - Diagram of circuit for Switching power supply



<b>8.0 Test Summary</b>			
Evaluation Period	Jun. 17, 2013 to Aug. 26, 2013		Project No. 130617025GZU
Sample Rec. Date	16-Jun-2013	Condition Prototype	Sample ID. S130617025-001 to 004
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 250, 10th Edition and CSA C22.2 No. 63-93, 4th Edition/ Clause	--	--
Leakage Current Test – Cord-connected Refrigerators	8.3	--	--
Component Washing Test	8.4	--	--
Input Test	8.5	--	--
Temperature and Pressure Test	8.6	--	--
Starting Test	8.7	--	--
Dielectric Voltage-Withstand Test	8.8	--	--
Overflow Test	8.12	--	--
Spill Test	8.13	--	--
Stability Test	8.14	--	--
Static load test – cabinets	8.15	--	--
Strain Relief Test	8.16	--	--
Insulation Resistance Test	8.21		
Accelerated Aging Test - Electric Heaters	8.22		
Reliability Test - Heater Terminals	8.23		
Strength Tests – Pressure Containing Components	8.24	--	--
Shelf Strength Test	8.25	--	--
Component Restrain Test	8.26	--	--
Glass Strength Test	8.27	--	--
Door Latch Release Test	8.28	--	--
Door Hinge Strength Test	8.29		
Impact Test	8.30	--	--
Leakage Test	SA5.1	--	--
Temperature test	SA5.3	--	--
Evaluation Period	Apr 20, 2015 to Apr. 23, 2015		Project No. 141117115GZU
Due to previous testing performed and reported above, no additional testing was necessary for UL 250, 10th Ed., Rev. Feb. 22, 2013 and CSA C22.2 No. 63-93, 4th Ed., Rev. Feb. 22, 2013.			

<b>8.0 Test Summary</b>			
Evaluation Period	April 20, 2016 to August 19, 2016		Project No. 150616125GZU
Sample Rec. Date	19-Apr-2016	Condition Prototype	Sample ID. S150616125-001
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 250 Issued: 1993/11/01 Ed: 10 Rev: 2013/02/22 and CSA C22.2 No. 63 Issued: 1993/11/01 (R2013)/ Clause	--	--
Leakage Current Test - Cord-connected Refrigerators	8.3		
Input Test	8.5	--	--
Temperature and Pressure Test	8.6	--	--
Starting Test	8.7	--	--
Dielectric Voltage-Withstand Test	8.8	--	--
Condenser Fan Motor Failure Test	8.11	--	--
Overflow Test	8.12	--	--
Spill Test	8.13	--	--
Stability Test	8.14	--	--
Static Load Test - Cabinets	8.15	--	--
Strain Relief Test	8.16	--	--
Strength Tests – Pressure Containing Components	8.24	--	--
Shelf Strength Test	8.25	--	--
Component Restrain Test	8.26	--	--
Glass Strength Test	8.27	--	--
Door Hinge Strength Test	8.29		
Impact Test	8.30	--	--
Leakage Test	SA5.1	--	--
Temperature Test	SA5.3	--	--

<b>8.0 Test Summary</b>			
Evaluation Period	August 11, 2016 to October 27, 2016		Project No. 160804029GZU
Sample Rec. Date	19-Apr-2016	Condition	Prototype
			Sample ID. S160804029-001~003
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 250 Issued: 1993/11/01 Ed: 10 Rev: 2013/02/22 and CSA C22.2 No. 63 Issued: 1993/11/01 (R2013)/ Clause	--	--
Input Test	8.5	--	--
Temperature and Pressure Test	8.6	--	--
Dielectric Voltage-Withstand Test	8.8	--	--
Condenser Fan Motor Failure Test	8.11	--	--

Evaluation Period	Aug 3, 2017 to Nov 6, 2017		Project No. 170803164GZU
Sample Rec. Date	3-Aug-2017	Condition	Prototype
			Sample ID. S170803164-001, 002, 003, 004
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 250 Issued: 1993/11/01 Ed: 10 Rev: 2013/02/22 and CSA C22.2 No. 63 Issued: 1993/11/01 (R2013)/ Clause	--	--
Leakage Current Test - Cord-connected Refrigerators	8.3		
Input Test	8.5	--	--
Temperature and Pressure Test	8.6	--	--
Starting Test	8.7	--	--
Dielectric Voltage-Withstand Test	8.8	--	--
Condenser Fan Motor Failure Test	8.11	--	--
Strength Tests – Pressure Containing Components	8.24	--	--



<b>8.0 Test Summary</b>				
Evaluation Period	Jan 22, 2018 to Apr. 16, 2018			Project No. 180122053GZU
Sample Rec. Date	21-Jan-2018	Condition	Prototype	Sample ID. S180122053-001, ~S180122053-008
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 250 Issued: 1993/11/01 Ed: 10 Rev: 2013/02/22 and CSA C22.2 No. 63 Issued: 1993/11/01 (R2013)/ Clause	UL 1310, 6th Edition, Rev. May 30, 2014 Clause	CSA C22.2 No. 223-15, Rev. Dec., 2015 Clause	
Leakage Current Test - Cord-connected Refrigerators	8.3	--	--	
Input Test	8.5	--	--	
Temperature and Pressure Test	8.6	--	--	
Starting Test	8.7	--	--	
Dielectric Voltage-Withstand Test	8.8	--	--	
Condenser Fan Motor Failure Test	8.11	--	--	
Overvoltage and Undervoltage Tests	8.17	--	--	
Strength Tests – Pressure Containing Components	8.24	--	--	
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	

<b>8.0 Test Summary</b>			
Evaluation Period	Jun 29, 2018 to Aug 17, 2018		Project No. 180629012GZU
Sample Rec. Date	28-Jun-2018	Condition	Prototype
			Sample ID. S180629012-001
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 250 Issued: 1993/11/01 Ed: 10 Rev: 2013/02/22 and CSA C22.2#63 Issued: 1993/11/01 (R2013)/ Clause	--	--
Leakage Current Test - Cord-connected Refrigerators	8.3	--	--
Input Test	8.5	--	--
Temperature and Pressure Test	8.6	--	--
Starting Test	8.7	--	--
Dielectric Voltage-Withstand Test	8.8	--	--
Stability Test	8.14	--	--
Shelf Strength Test	8.25	--	--
Component Restrain Test	8.26	--	--
Leakage Test	SA5.1	--	--

<b>8.1 Signatures</b>			
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:	Wind Fu/Becky Fan	Reviewed by:	Candy Wei
Title:	Engineer/Engineer	Title:	Sr. Project Engineer
Signature:	<i>Signature on file</i>	Signature:	<i>Signature on file</i>

**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.

<b>BASIC LISTEE</b>	Zhongshan Minea Electrical Appliance Co., Ltd
Address	Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong.
Country	China
Product	Wine Cooler

<b>MULTIPLE LISTEE 1</b>	NEWAIR ASIA CO., LTD
Address	35F, No.97, Sec 2, Dunhua S. Rd, Taipei.
Country	Taiwan
Brand Name	NEWAIR

<b>ASSOCIATED MANUFACTURER</b>	Zhongshan Minea Electrical Appliance Co., Ltd
Address	Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong.
Country	China

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS
AWR-520SB	CWC-150A
AWR-460DB	CWC-150B
AWR-190SB	CWC-70A
ABR-960, AWR-310SB	CWC-90A
AWR-290DB	CWC-90B
ABR-1770	CWC-150A
AWR-1160DB	CWC-350B
AWR-1600DB	CWC-450B
ABR-960B	CWC-90A
AWR-290DB-B	CWC-90B
ABR-1770B	CWC-150A
AWR-460DB-B	CWC-150B
AWB-400DB	CWC-150B

<b>MULTIPLE LISTEE 2</b>	Whynter LLC
Address	12406 Bell Ranch Dr., Santa Fe Springs, CA 90670
Country	USA
Brand Name	whynter

<b>ASSOCIATED MANUFACTURER</b>	Zhongshan Minea Electrical Appliance Co., Ltd
Address	Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong.
Country	China

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS
BCR-291SB	CWC-100B
BWR-661DZ	CWC-180C

**9.0 Correlation Page For Multiple Listings**

<b>MULTIPLE LISTEE 3</b>	Kalamera Inc	
Address	18523 GALE AVE, CITY OF INDUSTRY, CA 917481331	
Country	USA	
Brand Name	KALAMERA	
<b>ASSOCIATED MANUFACTURER</b>	Zhongshan Minea Electrical Appliance Co., Ltd	
Address	Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong.	
Country	China	
<b>MULTIPLE LISTEE 3 MODELS</b>		
<b>BASIC LISTEE MODELS</b>		
KRC-18SZB	CWC-70A	
KRC-30SZB	CWC-90A	
KRC-90BV	CWC-90A	
KRC-150BV	CWC-150A	
KRC-46DZB	CWC-150B	
KRC-40DZB	CWC-150C	
KRC-52SZF	CWC-120A	
KRC-120BV	CWC-120A	
KRC-85SZF	CWC-200A	
KRC-73DZF	CWC-200B	
KRC-157DZB	CWC-450B	
KRC-54SZB	CWC-150A	
KRC-154BV-S	CWC-150A	
KRC-66DZB	CWC-180C	
KRC-90BV-SS	CWC-90A	
KRC-90BF	CWC-90A	
KRC-30AJP	CWC-90A	
C1530S	CWC-90A	
KRC-46AJP	CWC-150B	
C246T	CWC-150B	
KRC-150BF	CWC-150A	
KRC-117DZB	CWC-350B	
KRC-127SZB	CWC-350A	
KRC-150CB	CWC-150C	
KRC-180CB	CWC-180C	
J1596C	CWC-90A	
J2454C	CWC-150A	
C2418WB	CWC-150C	

**9.0 Correlation Page For Multiple Listings**

<b>MULTIPLE LISTEE 4</b>	AKDY IMPORTS LLC	
Address	8807 Rochester Ave., Rancho Cucamonga, CA 91730	
Country	USA	
Brand Name	AKDY	
<b>ASSOCIATED MANUFACTURER</b>	Zhongshan Minea Electrical Appliance Co., Ltd	
Address	Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong.	
Country	China	
<b>MULTIPLE LISTEE 4 MODELS</b>		<b>BASIC LISTEE MODELS</b>
AK-70A		CWC-70A
AK-90A		CWC-90A
AK-150A		CWC-150A
AK-150B		CWC-150B
AK-350A		CWC-350A
AK-350B		CWC-350B
AK-450A		CWC-450A
AK-450B		CWC-450B
AK-100A		CWC-100A
AK-100B		CWC-100B
AK-120A		CWC-120A
AK-160A		CWC-160A
AK-160B		CWC-160B
AK-200A		CWC-200A
AK-200B		CWC-200B
AK-75AJP		CWC-75A
AK-75ASS		CWC-75A
AK-75BJP		CWC-75B
AK-75BSS		CWC-75B
CWC-75A		CWC-75A
CWC-75B		CWC-75B
AK-120B		CWC-120B

**9.0 Correlation Page For Multiple Listings**

<b>MULTIPLE LISTEE 5</b>	Deleted	
Address		
Country		
Brand Name		
<b>ASSOCIATED MANUFACTURER</b>		
Address		
Country		
<b>MULTIPLE LISTEE 5 MODELS</b>		<b>BASIC LISTEE MODELS</b>

<b>MULTIPLE LISTEE 6</b>	Zhongshan Renheng Ecommerce Co.Ltd	
Address	Tongan DadaoXi Industry Park, Dongfeng, Zhongshan City, Guangdong.	
Country	China	
Brand Name	PHIESTINA	
<b>ASSOCIATED MANUFACTURER</b>	Zhongshan Minea Electrical Appliance Co., Ltd	
Address	Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong.	
Country	China	
<b>MULTIPLE LISTEE 6 MODELS</b>		<b>BASIC LISTEE MODELS</b>
PH-CBR100		CWC-100A
PH-CWR100		CWC-100B
PH-29DB		CWC-90B
PH-46DB		CWC-150B
PH-90FB		CWC-90A
PH-150CB		CWC-150C
PH-180CB		CWC-180C
PH-150BCW		CWC-150C
PH-90BF		CWC-90BF
PH-150BF		CWC-150BF

**9.0 Correlation Page For Multiple Listings**

MULTIPLE LISTEE 7	New air LLC
Address	6600 Katella Ave., Cypress, CA 90630
Country	USA
Brand Name	Newair

ASSOCIATED MANUFACTURER	Zhongshan Minea Electrical Appliance Co., Ltd
Address	Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong.
Country	China

MULTIPLE LISTEE 7 MODELS	BASIC LISTEE MODELS
NWC029BS00	CWC-90B
NWB057SS00	CWC-90B
NWC046BS00	CWC-150B
NBC177BS00	CWC-150A
NBC096BS00	CWC-90A
AWR-520SB	CWC-150A
AWR-460DB	CWC-150B
AWR-190SB	CWC-70A
ABR-960, AWR-310SB	CWC-90A
AWR-290DB	CWC-90B
ABR-1770	CWC-150A
AWR-1160DB	CWC-350B
AWR-1600DB	CWC-450B
ABR-960B	CWC-90A
AWR-290DB-B	CWC-90B
ABR-1770B	CWC-150A
AWR-460DB-B	CWC-150B
AWB-400DB	CWC-150B
NWC029SS01, NWC029SS02, NWC029SS03	CWC-90B
NWC029SS04, NWC029SS05, NWC029SS06	CWC-90B
NWC046SS01, NWC046SS02, NWC046SS03	CWC-150B
NWC046SS04, NWC046SS05, NWC046SS06	CWC-150B

<b>9.0 Correlation Page For Multiple Listings</b>	
<b>MULTIPLE LISTEE 8</b>	C&A Marketing Inc
Address	114 Tived Lane East Edison NJ 08837
Country	USA
Brand Name	ivation
<b>ASSOCIATED MANUFACTURER</b>	Zhongshan Minea Electrical Appliance Co., Ltd
Address	Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong.
Country	China
MULTIPLE LISTEE 7 MODELS	BASIC LISTEE MODELS
IVBWCC311SS	CWC-90A
IVBWCC291DSS	CWC-90B
IVBWCC461DSS	CWC-150B
IVBWCC403DSS	CWC-150C
IVBWCC461SS	CWC-150A
IVBWCC403DSS	CWC-150C
IVBWCC181SS	CWC-70A



## 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 issue 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.

**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.

**Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation**

Ship the samples to:  
Intertek Testing Services Shenzhen Limited Guangzhou Branch  
ETL Component Evaluation Center  
Block E, No. 7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City  
CETDD Guangzhou, China.  
Attn: Ms. Joey Kuang  
Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

**11.0 Manufacturing and Production Tests**

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

**Required Tests**

- Dielectric Voltage Withstand Test
- Grounding Continuity Test
- Pressure Tests For Leakage and Strength

**11.1 Dielectric Voltage Withstand Test**

Method

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

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

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

Test Equipment

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

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

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

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

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

**Products Requiring Dielectric Voltage Withstand Test:**

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

### **11.2 Grounding Continuity Test**

#### Method

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

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

#### **Products Requiring Grounding Continuity Test:**

All products covered by this Report.

### **11.3 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	
23-Jan-2014	Alan Wang/ Jackson Zhou	2	--	Added a new model CWC-90A and updated the rating.	
131230047GZU		3	--	Added a new photo for CWC-90A	
		7	--	Added new marking for ML "NEWAIR ASIA CO., LTD"	
		9	--	Added a new ML "NEWAIR ASIA CO., LTD", models AWR-520SB, AWR-460DB, with trade name NEWAIR	
22-Aug-2016  150616125GZU	John Li / Candy Wei	1	Std.	Corrected UL & CSA standard from "UL 250, 10th Ed., Rev. Feb. 22, 2013 & CSA C22.2 No. 63-93, 4th Ed., Rev. Feb. 22, 2013" to "UL 250 Issued: 1993/11/01 Ed: 10 Rev: 2013/02/22 Household Refrigerators and Freezers & CSA C22.2 No. 63 Issued: 1993/11/01 (R2013) Household Refrigerators and Freezers; Gen. Inst. 1 (1993) - 6 (2012)"	
				2	--
		3	2A	Replaced this photo because that demension and outer appearance of CWC-90A changed.	
			2B, 2C	Added External views of CWC-70A, CWC-90B	
			24	Added item number: 34, 35	
			25~31	Added photo for new model CWC-180C	
		4	4	1.	Corrected technical data from "450 V, 50/60 Hz, 10±5% μ F." to "250VAC, 50/60 Hz, 8±5% μF." for Model number: STR 2. Added two alternative Capacitor for Compressor as below: 1). Manufacturer: SHANGHAI HAOYE ELECTRIC CO LTD Model number: MKP Series 2). Manufacturer: NINGGUO YUHUA ELECTRICAL PRODUCTS CO LTD Model number: CBB65-A
				8	Revises component name from "Compressor for CWC-100 series, CWC-120 series, CWC-150 series, CWC-160 series, CWC-200 seires" to "Compressor for CWC-70 series,, CWC-90 series, CWC-100 series, CWC-120 series, CWC-150 series, CWC-160 series, CWC-180 seires,CWC-200 seires"
			14	Added alternative PCB Material as below: Manufacturer: ZHONGSHAN LIXIN CHAIN-BOARD CO LTD Model number: CEM-1	
			5	1.	Added two alternative fan as below: 1. manufacturer: SHENZHEN DINGDAO TECHNOLOGY CO LTD, model number: DD92DBVM-012 2. manufacturer: SHENZHEN DINGDAO TECHNOLOGY CO LTD, model number: DD120DSVL-012
16	Added a alternative fan as below: manufacturer: SHENZHEN DINGDAO TECHNOLOGY CO LTD, model number: DD92DBVM-012				

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
			18	Added two alternative fan as below: 1. manufacturer: SHENZHEN DINGDAO TECHNOLOGY CO LTD, model number: DD92DBVM-012 2. manufacturer: SHENZHEN DINGDAO TECHNOLOGY CO LTD, model number: DD120DSVL-012
			23	Added a alternative fan as below: manufacturer: SHENZHEN DINGDAO TECHNOLOGY CO LTD, model number: DD92DBVM-012
			19A	Added item 19A: Steel sheft(not shown)
			24A	Added item 24A: PTC heater eletment assembly
			24B	Added item 24B: PTC heater eletment assembly
			34	Added item 34: PTC heater eletment
			35	Added item 35:PTC heater bracket
			36	Added item 36:Temperature limiter
		7	1	Updated marking of CWC-450B because that input current changed from "1.8A" to "2.3A"
			1A	Added marking for new models CWC-70A, CWC-90B, CWC-180C
			1.2	1. Corrected the tittle form "Illustration 1.2 - Markings for ML NEWAIR ASIA CO., LTD" to "Illustration 1.2A - Markings for Whynter LLC" 2. Added ML marking for new ML "Whynter LLC"
			1.2, 1.3	Added new ML marking for ML NEWAIR ASIA CO., LTD
			2	Added NOTE: the height of triangle caution marking shall not less than 15mm.
			2B	Added Illustration 2B - Caution Marking on carton
			2C	Added Illustration 2C - Caution Marking on KEY
			3.3	Added Illustration 3.3 - Instruction Manual(cont'd)
			4.4, 4.5	Added Illustration 4.5 - Specification of Evaporator for CWC-180C
			5.3	Added Illustration 5.3 - Specification of Condenser for CWC-180C
			6.1~ 6.3	Deleted Illustration 6.1~6.3: Diagram of circuit, for all models.
			6.4	Added Illustration 6.4 - Diagram of circuit for CWC-70A, CWC-100A, CWC-120A, CWC-160A, CWC-200A
			6.5	Illustration 6.5 - Diagram of circuit for CWC-70B, CWC-90B, CWC-100B, CWC-120B, CWC-160B, CWC-200B
			6.6	Added Illustration 6.6 - Diagram of circuit for CWC-90A, CWC-150A
			6.7	Added Illustration 6.7 - Diagram of circuit for CWC-150B, CWC-350B, CWC-450B
			6.8	Added Illustration 6.8 - Diagram of circuit for CWC-150C
			6.9	Added Illustration 6.9 - Diagram of circuit for CWC-180C
		6.10	Added Illustration 6.10 - Diagram of circuit for CWC-350A, CWC-450A	
		8.0	--	Added new test block in section 8.
		8.1	--	Resigned this report.
		9	1	1. Changed address of ML from "4F, No.28, Ln 11, Leli Rd, Taipei, Taiwan" to "35F, No.97, Sec 2, Dunhua S. Rd, Taipei, Taiwan" for ML "NEWAIR ASIA CO., LTD" 2. Added new ML models "AWR-190SB, ABR-960, AWR-310SB, AWR-290DB, ABR-1770" with brand name "NEWAIR", for ML "NEWAIR ASIA CO., LTD"
			2	Added multiple listee, with company "Whynter LLC", with trade name "whynter", with models "BCR-291SB"

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	
27-Oct-2016                160804029G ZU	John Li / Ivan Hu	2	--	1. Revised input current from "1.8A" to "2.3A" for model CWC-350A, CWC-350B 2. Revised Demension from "395x830x580" to "395x840x580" for model CWC-100A, CWC-100B 3. Revised Demension from "495x830x580mm" to "495x830x580mm" for model CWC-120A, CWC-120B 3. Revised Demension from "595x884x568mm" to "595x840x570mm" for model CWC-150A, CWC-150C, CWC-150B. 4. Revised Demension from "395x1275x580mm" to "395x1275x580mm" for model CWC-160A, CWC-160B. 5. Revised Demension from "495x1275x580mm" to "495x1275x580mm" for model CWC-200A, CWC-200B. 6. Revised Demension from "595x1430x680mm" to "595x1397x680mm" for model CWC-350A, CWC-350B. 7.Revised Demension from "595x1780x680mm" to "595x1769x680mm" for model CWC-450A, CWC-450B.	
			3	21	Replaced photo 21.
			4	15	Corrected technical data from "8 A, 250 VAC, 5x20 mm" to "10 A, 250 VAC, 5x20 mm"
			6	10	Revised Cautionary Markings from "Free-Standing Installation Only", "Installation seulement à pose libre" to "Free standing or Built-in Installation", "Debout Tout Seul Ou Seulement par Installation Incorporée"
			7	1	1. revised note for marking of model CWC-100A and CWC-100B. 2. Replaced nameplates of model CWC-450A, CWC-450B to revise cautionary marking from "Free Standing Installation" to "Built-in or Free Standing Installation"
				1A	Replaced nameplates of model CWC-70A, CWC-90B to revise cautionary marking from "Free Standing Installation" to "Built-in or Free Standing Installation", and added note for nameplate.
				1.1	Replaced nameplates of model AWR-520SB,AWR-460DB to revise cautionary marking from "Free Standing Installation" to "Free Standing or Built-in Installation"
				1.2	Replaced nameplates of model AWR-190SB,ABR-960, AWR-290DB to revise cautionary marking from "Free Standing Installation" to "Free Standing or Built-in Installation", and added note for AWR-310SB.
				1.3	1. Replaced nameplates of model ABR-1770 to revise cautionary marking from "Free Standing Installation" to "Free Standing or Built-in Installation" 2. Added ML nameplate for ML model AWR-1160DB, AWR-1600DB
				1.2A	1. Replaced nameplates of model BCR-291SB to revise cautionary marking from "Free Standing Installation" to "Free Standing or Built-in Installation" 2. Added ML nameplate for ML model BWR-661DZ.
				1.2B 1.2C 1.2D	Added ML marking for ML Kalamera Inc. Added ML marking for ML AKDY IMPORTS LLC Added Markings for ML Wine Enthusiast
		8	8.0	Added new test block in section 8.	
			8.1	Resigned this report.	
				1	Added ML model AWR-1160DB, AWR-1600DB with brand name "NEWAIR", for ML "NEWAIR ASIA CO., LTD"

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
		9	2	Added ML model BWR-661DZ with brand name "Whynter", for ML "Whynter LLC"
			3	Added new ML "Kalamera Inc", models shown as sec. 9 ML 3, with brand name "KALAMERA"
			4	Added new ML "AKDY IMPORTS LLC", models shown as sec. 9 ML 3, with brand name "AKDY"
			5	Added new ML "Wine Enthusiast", models shown as sec. 9 ML 3, with brand name "Wine Enthusiast"
17-Jan-2017 161209057GZU	John Li / Ivan Hu	4	12	Corrected model number from "S126SMD2-1A" to "HYS48-12D".
6-Nov-2017 170803164GZU	Candy Wei/ Ivan Hu	1	Std.	Revised the CSA standard from " CSA C22.2 No. 63 Issued: 1993/11/01 (R2013) Household Refrigerators and Freezers; Gen. Inst. 1 (1993) - 6 (2012)" to "CSA C22.2#63 Issued: 1993/11/01 (R2013) Household Refrigerators and Freezers; Gen. Inst. 1 (1993) - 6 (2012)" to match GSSQ.
			2	-
		4	8	Corrected the voltage for compressor JK1111HY and N1116HY from 120V to 115V. Added alternative compressor EMYS45CLP, MM1060HY.
			8a	Deleted item 8a. And combined item 8a to item 8.
		7	1.2B.1 , 1.2B.2 , 1.2B.3	Revised the item number 1.2B to 1.2B.1, 1.2B.2, 1.2B.3.
			1.2D	Added note to added label information for new ML models of ML "Wine Enthusiast".
			1.2E	Added label for ML "WEILIANG CHEN".
		8	1.3	Added note to added label information for new ML models of ML "NEWAIR ASIA CO., LTD".
			-	Added test summary for this revision and resigned.
		9	1	Added ML model "ABR-960B, AWR-290DB-B, ABR-1770B, AWR-460DB-B" to ML "NEWAIR ASIA CO., LTD" with brand name "NEWAIR".
5	Adde ML model "268 7 followed by one number; followed by 80 0; followed by one number.", "268 6 followed by one number; followed by 80 0; followed by one number.", "268 7 followed by one number; followed by 73 0; followed by one number.", "268 6 followed by one number; followed by 73 0; followed by one number.", "268 68 80 02", "268 7 followed by one number; followed by 52 0; followed by one number.", "268 6 followed by one number; followed by 52 0; followed by one number." to ML "Wine Enthusiast" with brand name "Wine Enthusiast".			
		6	Added ML "WEILIANG CHEN" and model "PH-CBR100, PH-CWR100, PH-29DB, PH-46DB, PH-90FB, PH-150CB, PH-180CB" with brand name "PHIESTINA".	



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
16-Apr-2018  180122053GZU	Wind Fu Becky Fan/ Candy Wei	2	--	1. Added new models CWC-90BF, CWC-150BF. 2. Updated model similarity and rating for above new models.
		3	12 to 15	Updated photos with new version.
			32 to 35	Added a new photo for alternative Switching power supply and new model.
		4	4	Added below alternative compressor capacitor: Manufacturer: SHANGHAI HAOYE ELECTRIC CO LTD Model: MKP Series
			8	Added below alternative compressor: 1. Manufacturer: JIAXIPERA COMPRESSOR CO LTD Model: TU1110HY 2. Manufacturer: WHIRLPOOL SA Model: EMYS55CLC
			37 to 45	Added components for alternative switching power supply.
			46	Added item for "Stainless steel door frame"
		7	1A	Updated a note for marking similarity.
			6.11	Added diagram of circuit for switching power supply
		8	--	Added new test block in section 8.0.
		8.1	--	Revised with new signatures.
		9	6	Added ML models "PH-90BF, PH-150BF, PH-150BCW" with brand name "PHIESTINA" for ML "WEILIANG CHEN".
		17-Aug-2018  180629012GZU	Wind Fu Becky Fan/ Candy Wei	2
3	18			Added "CWC-75 series" in the photo title.
	36, 37			Added new photos.
4	8			Added below compressor for models CWC-75 series: Manufacturer: HUAYI COMPRESSOR (JINGZHOU) CO LTD. Model: L48C5L
	19A			Added "4.0 mm for CWC-75 series" in technical data.
	20			Corrected Technical data from "Copper tube, outside diameter 8 mm, thickness 0.75 mm, refer illustration 4.1 to 4.3 for details." to "Aluminium tube, outside diameter 8 mm, thickness 0.75 mm, refer illustration 4.1 to 4.6 for details".
	27			Changed Technical data from "Copper tube, outside diameter 4 mm, thickness 0.5 mm, refer illustration 5.1 and 5.2 for details to "Galvanized steel tube, outside diameter 4 mm, thickness 0.5 mm, refer illustration 5.1 to 5.4 for details".
7	1B			Added marking and note for marking similarity.
	1.1			Added a note for marking similarity.
	1.1A			Changed illustration no from 1.2 to 1.1A.
	1.1B			Changed illustration no from 1.3 to 1.1B.
	1.2B.1			Replaced ML marking label with new version and added a note for marking similarity.
	1.2B.2			Deleted marking label.
	1.2B.3			
	1.2C			Added a note for marking similarity.
	1.2E			Replaced ML marking label with new version.
2C	Deleted the repeated caution marking.			

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
			4.6, 5.4	Added new specifications.
			6.4a, 6.4b	Added diagram of circuit.
		8	--	Added new test block and re-sign.
		9	1	Added ML models "AWB-400DB" with brand name "NEWAIR" for ML "NEWAIR ASIA CO., LTD".
			3	1. Changed ML address from "4240 W FLAMINGO RD 200-11 LAS VEGAS STATE NV 89108" to "18523 GALE AVE, CITY OF INDUSTRY, CA 917481331" 2. Added ML models "KRC-54SZB, KRC-154BV-S, KRC-66DZB" with brand name "KALAMERA" for ML "Kalamera Inc".
			4	1.Changed ML address from "10912 WEAVER AVE. SOUTH EL MONTE, CA 91733" to "8807 Rochester Ave., Rancho Cucamonga, CA 91730". 2. Added ML models "AK-75AJP, AK-75ASS, AK-75BJP, AK-75BSS, CWC-75A, CWC-75B" with brand name "AKDY" for ML "AKDY IMPORTS LLC".
	6	Changed ML company and address from "WEILIANG CHEN" to "Zhongshan Renheng Ecommerce Co.Ltd", from "NO. 29, LAOJIE, ZENGGUANG JUWEI DUOZHU TOWN, HUIDONG COUNTY GUANGDONG PROVINCE" to "Tongan Dadao Xi Industry Park, Dongfeng, Zhongshan City, Guangdong".		
9-Sep-2019  190829012GZU	Sylvia Xu Becky Fan/ Candy Wei	6	9	Added illustration#1B, 1.1-1.2F.
		7	1.2D	Deleted marking label and note for ML "Wine Enthusiast"
			1.2F	Added marking label and note for ML "New air LLC"
		9	4	Deleted a repetitive model
			4	Added a model name "AK-120B" with brand name "AKDY" for ML "AKDY IMPORTS LLC"
			5	Deleted ML "Wine Enthusiast" and models "268 78 52 01, 268 78 80 01, 268 78 73 02, 268 68 80 01, 268 68 80 02, 268 68 53 02", " "268 7, 268 6" followed by one number; followed by 80 0; followed by one number.", " "268 7, 268 6 " followed by one number; followed by 73 0; followed by one number." and " "268 7, 268 6" followed by one number; followed by 52 0; followed by one number." with brand name "Wine Enthusiast".
			7	Added ML "New air LLC" and models " NWC029BS00, NWB057SS00, NWC046BS00, NBC177BS00, NBC096BS00" with brand name "Newair".

**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-Jan-2020  200110105GZU	Yuxuan Huang John Li/ Becky Fan  <i>Yuxuan Huang</i> <i>John Li</i> <i>Becky Fan</i>	6	9	Added illustration#1.2G.
			12	Added "ATTENTION - RISQUE DE FEU OU D'EXPLOSION SI LA TUBULURE CONTENANT LE FRIGORIGÈNE EST PERFORÉE; SUIVRE LES INSTRUCTIONS DE MANUTENTION AVEC SOIN. LE FRIGORIGÈNE EST INFLAMMABLE".
		7	1.2G	Added marking label and note for ML "C&A Marketing Inc".
		9	3	Added ML model "KRC-90BV-SS, KRC-90BF, KRC-30AJP, C1530S, KRC-46AJP, C246T, KRC-150BF, KRC-117DZB, KRC-127SZB, KRC-150CB, KRC-180CB, J1596C, J2454C, C2418WB" with brand name "KALAMERA" for ML "Kalamera Inc".
			7	Added ML model "AWR-520SB, AWR-460DB, AWR-190SB, ABR-960, AWR-310SB, AWR-290DB, ABR-1770, AWR-1160DB, AWR-1600DB, ABR-960B, AWR-290DB-B, ABR-1770B, AWR-460DB-B, AWB-400DB, NWC029SS01 , NWC029SS02, NWC029SS03, NWC029SS04, NWC029SS05, NWC029SS06, NWC046SS01, NWC046SS02, NWC046SS03, NWC046SS04, NWC046SS05, NWC046SS06" with brand name "Newair" for ML "New air LLC".
			8	Added ML "C&A Marketing Inc" and ML model "IVBWCC311SS, IVBWCC291DSS, IVBWCC461DSS, IVBWCC403DSS, IVBWCC461SS, IVBWCC403DSS, IVBWCC181SS" with brand name "ivation".