

Display Merchandiser Service Manual

Please read this manual completely before attempting to install or operate this equipment!

TCGB-36-2
TCGB-48-2
TCGB-60-2
TCGB-72-2

TCGB-36-DR
TCGB-48-DR
TCGB-60-DR
TCGB-72-DR

TCGB-60-CO
TCGB-72-CO

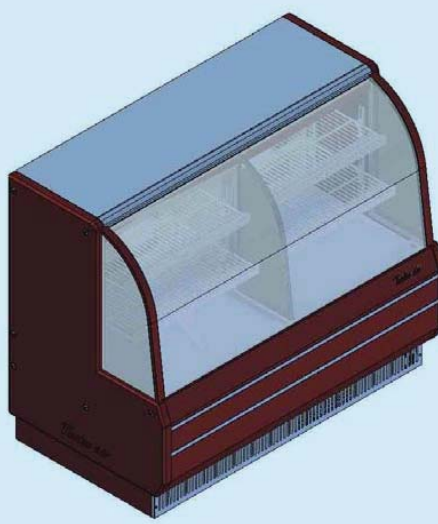
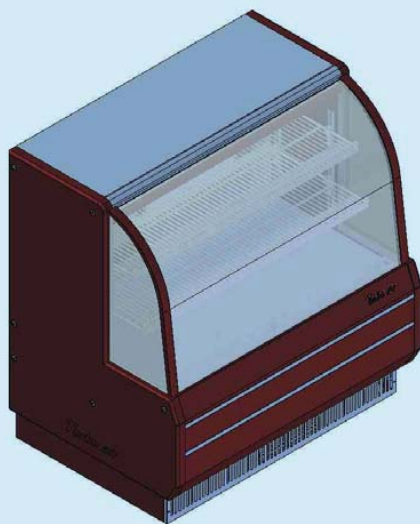


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◇ MAIN COMPONENTS

1. Compressor

Manufacturer	SAMSUNG.	Tecumseh.
Designation	HK6A1C2U	CAJ4476Y
Electrical Rating	5.6 A	11.0 A
V, Hz, Phase	115 V, 60 Hz, 1 Ph	
LRA	28.0 A	54 A
Refrigerant	R-134a	

2. Overload Protector

Manufacturer		
Model or Designation	4TM801SFBZZ-53	CAR38014-3057

3. Starting Capacitor, Run Capacitor

Rating, uF, V		250uF, 160v
Rating, uF, V	20uF, 350 V	

4. Condenser Fan Motor, Evaporator Fan Motor

Manufacturer	Geenam Electric	
Model	SE-043	
Rating V, Hz, Phase, A or W	115 V, 60 Hz, 1 Ph, 0.8 A, 9 W	

5. Thermostat (Refrigeration Controller)

Manufacturer	Q-MAX
Designation	QGTN-24HJ
Electrical Rating, Minimum V, FLA, LRA	Output: 250 V ac, 1 A

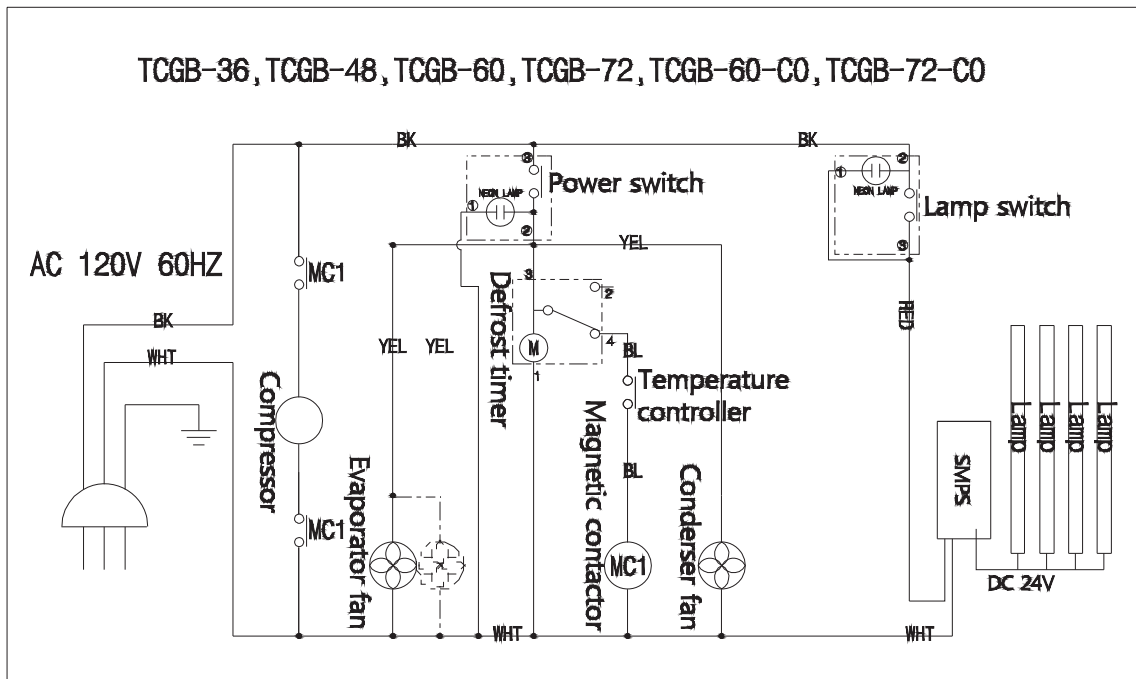
6. LED LAMP, POWER SUPPLY

	LED LAMP			POWER SUPPLY SMPS
	LENGTH	WATT	EACH	
TCGB-36-2(*)	800 mm	9.6 W	3 EA	NES-50-24, LS50-24
TCGB-48-2(*)	1100 mm	13.2 W	3 EA	NES-75-24, LS75-24
TCGB-60-2(*)	1400 mm	16.8 W	3 EA	NES-75-24, LS75-24
TCGB-72-2(*)	1700 mm	20.4 W	3 EA	NES-100-24, LS100-24
TCGB-60-2-CO(*)	600 mm	7.2 W	6.EA	NES-75-24, LS75-24
TCGB-72-2-CO(*)	800 mm	9.6 W	6.EA	NES-100-24, LS100-24

7. Ballast

Manufacturer	HENGDIAN GROUP TOSPO LIGHTING CO., Ltd	FOSHAN TEYUAN ELECTRONIC SCIENCE & TECHNOLOGY CO., Ltd
Model	TP120-3/32ISPFC	TBE-34CFW
Rating V, A	120 V~, 60Hz, 1 A,	120 V~, 60Hz, 1 A,

◇ WIRING DIAGRAM



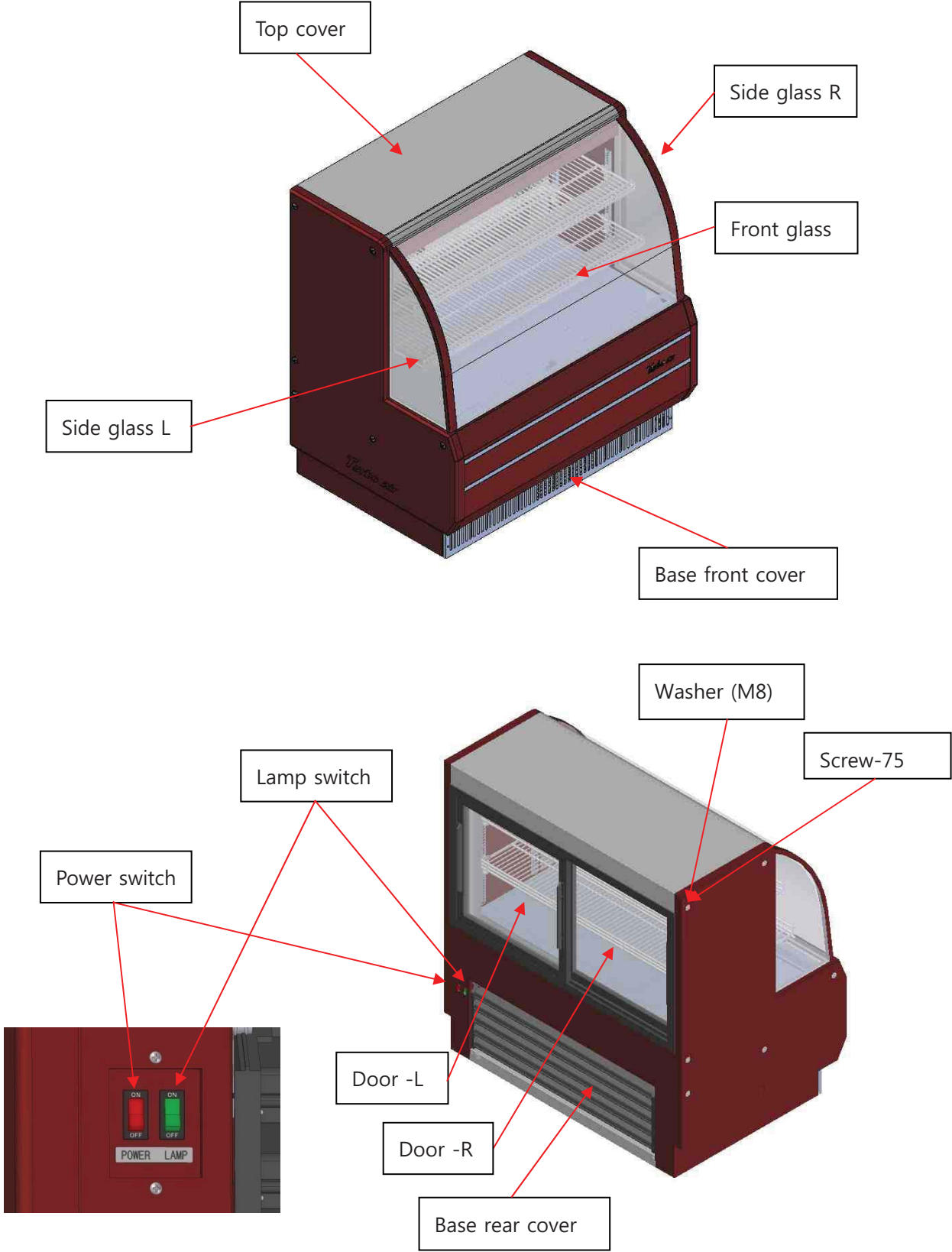
◇ TEMPERATURE CONTROL INSTRUCTION

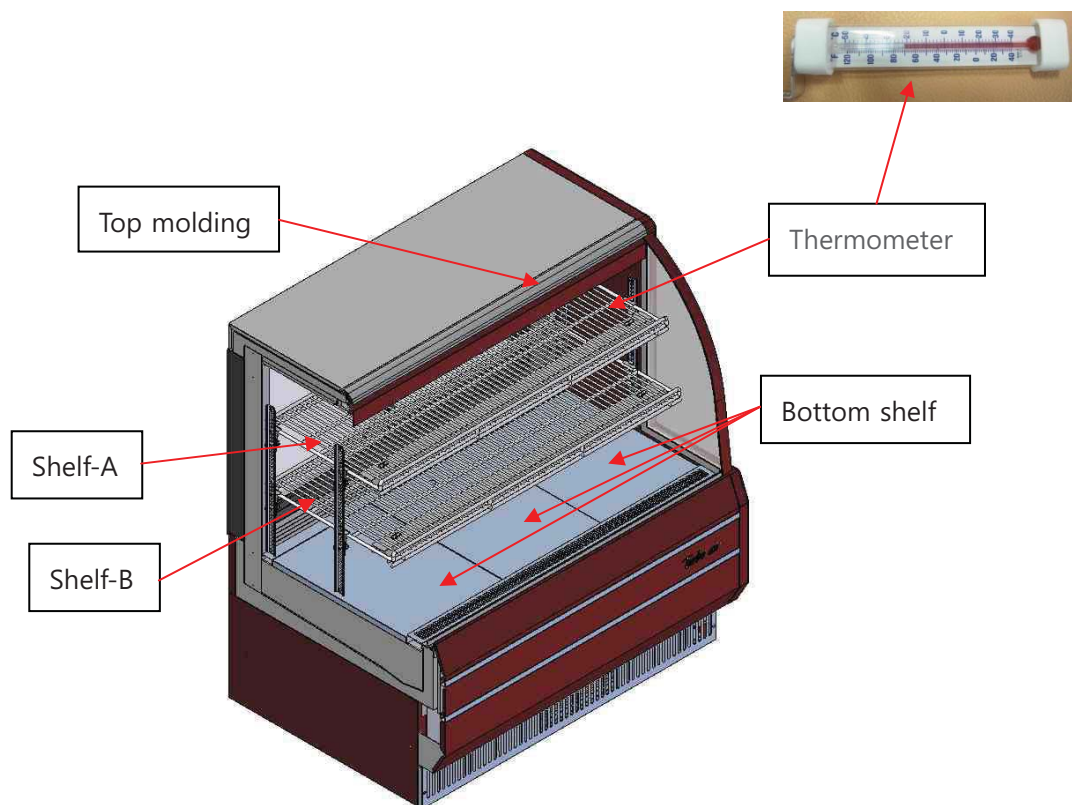
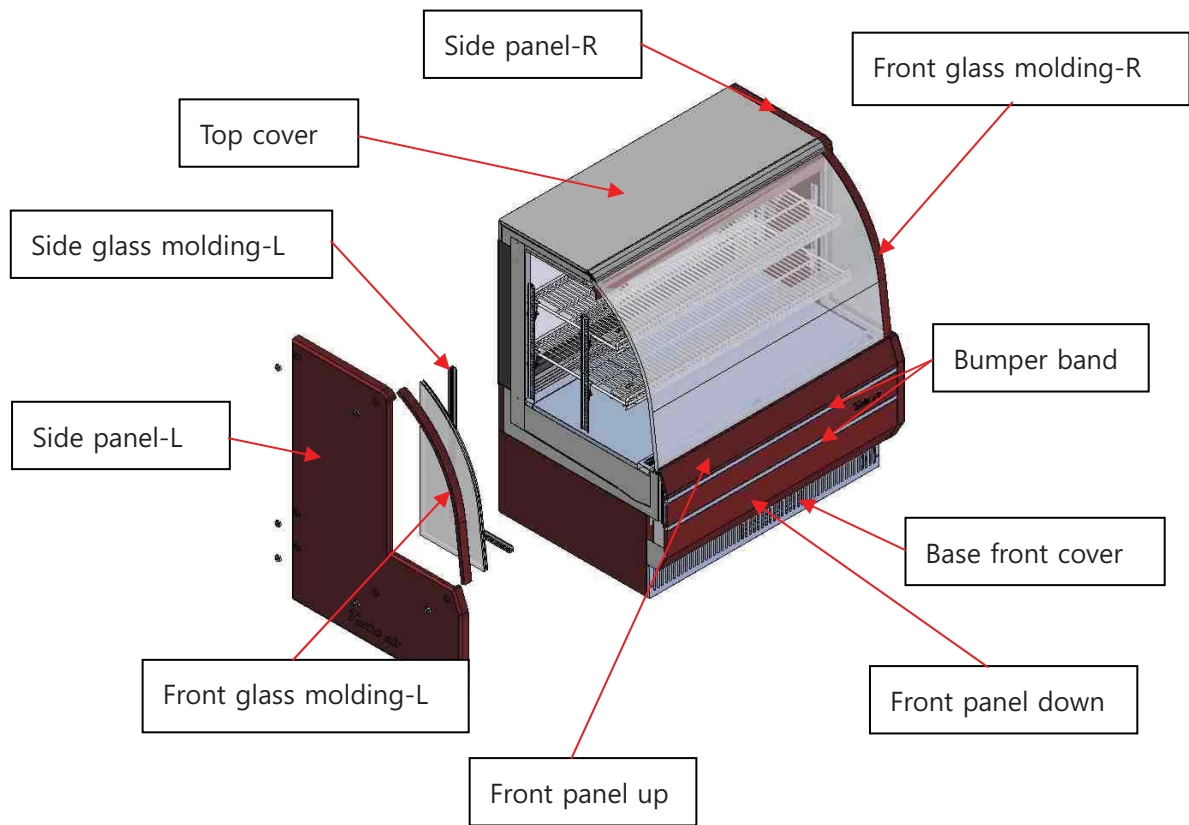
The temperature control is located near the back left hand side underneath the bottom shelf.

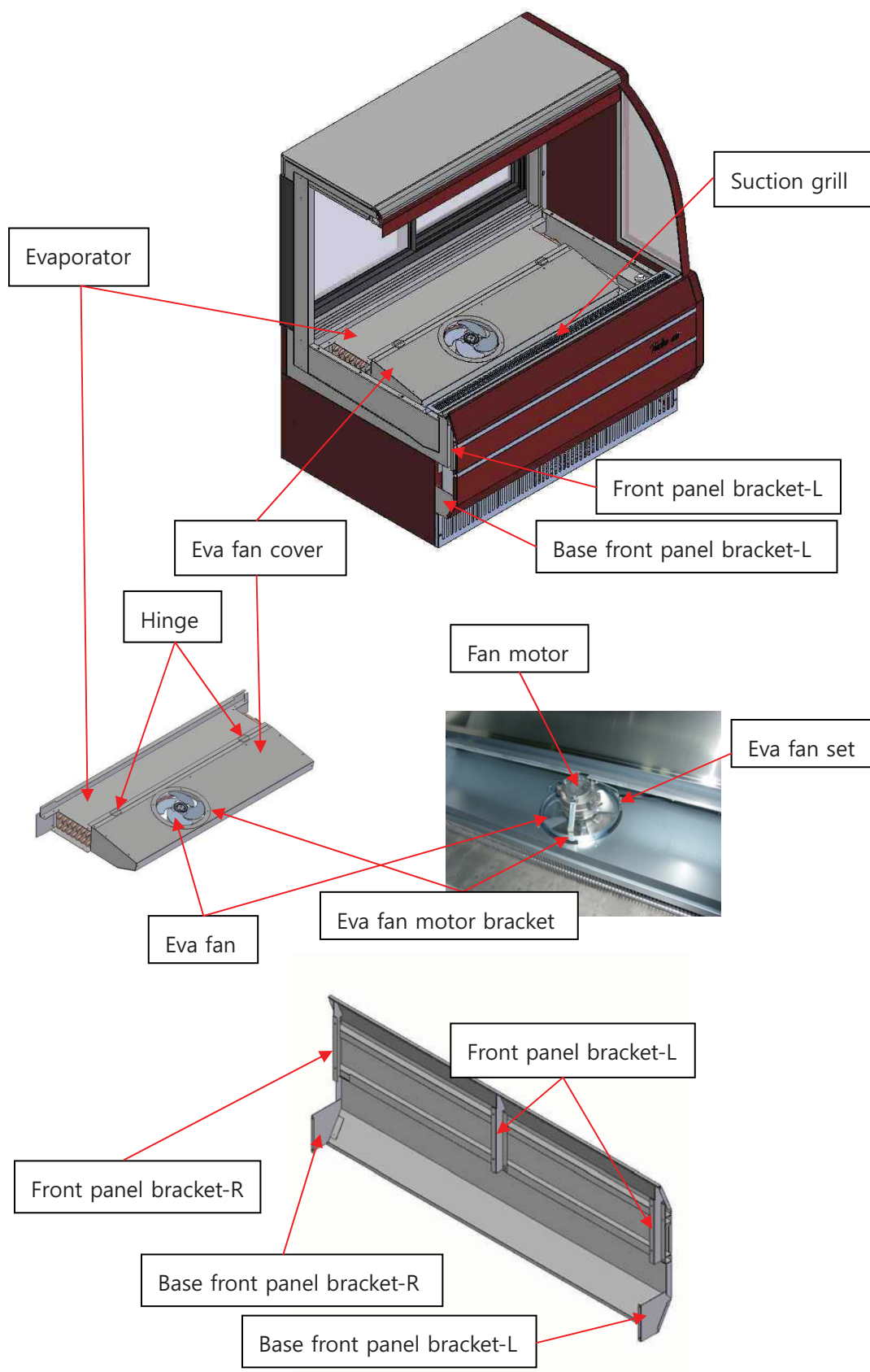
1. The original setting for the control is Normal.
2. The working temperature is from 37°F to 40°F.
3. To lower the temperature, turn the knob slightly to “COLD”. To raise the temperature, turn the knob to “WARM”.
4. In case of icing due to the hike of ambient temperature or humidity, turn the knob slightly to “WARM”.

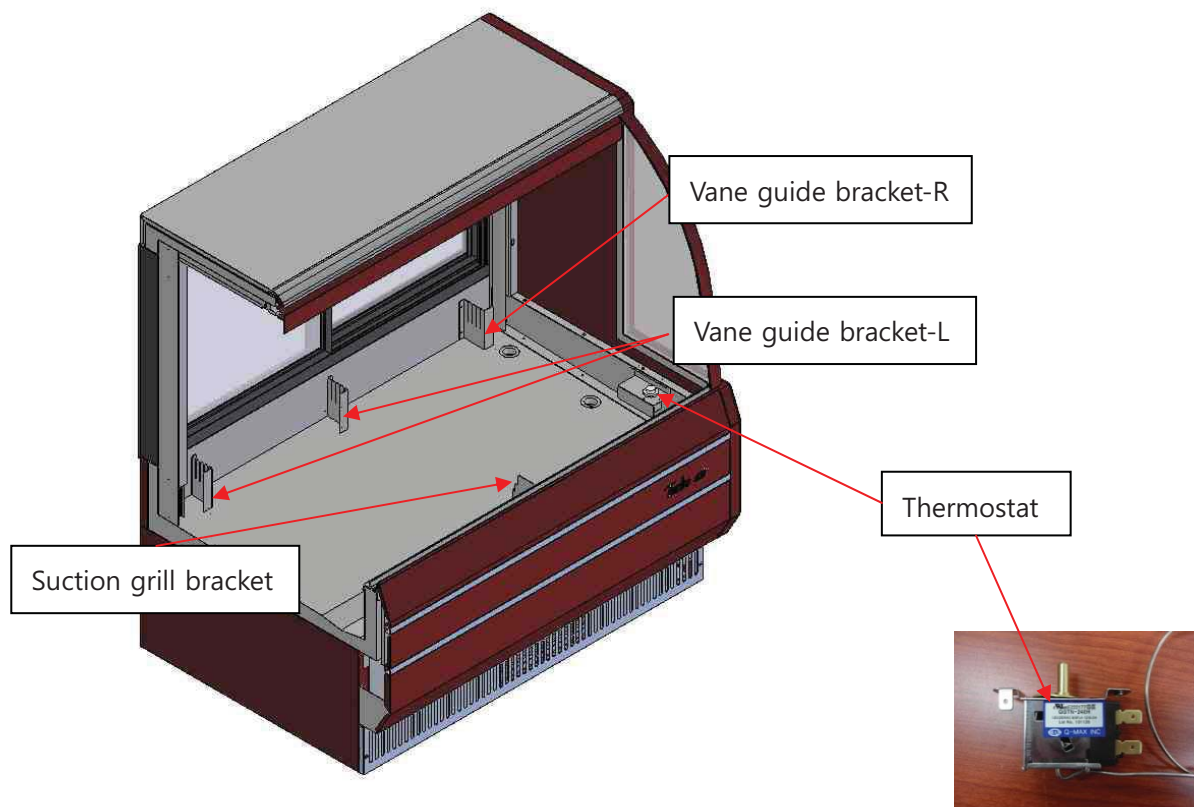
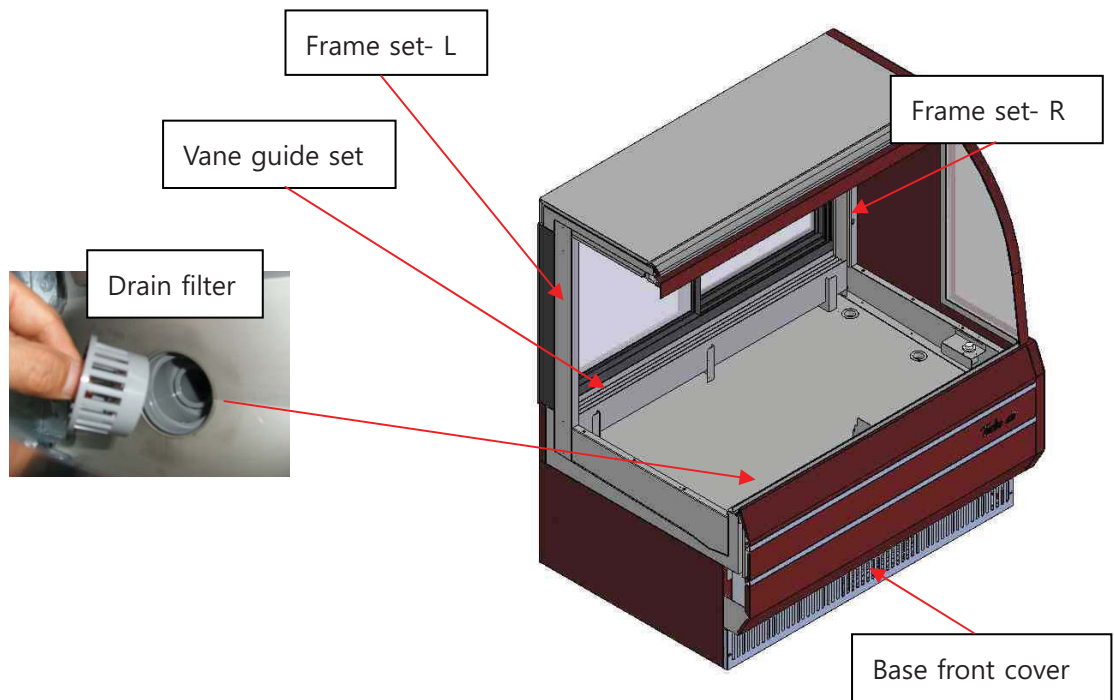
[Display is designed to be in an area that is ambient 75 degrees Fahrenheit (dry bulb) or colder and 55 percent relative humidity.]

PART NAME

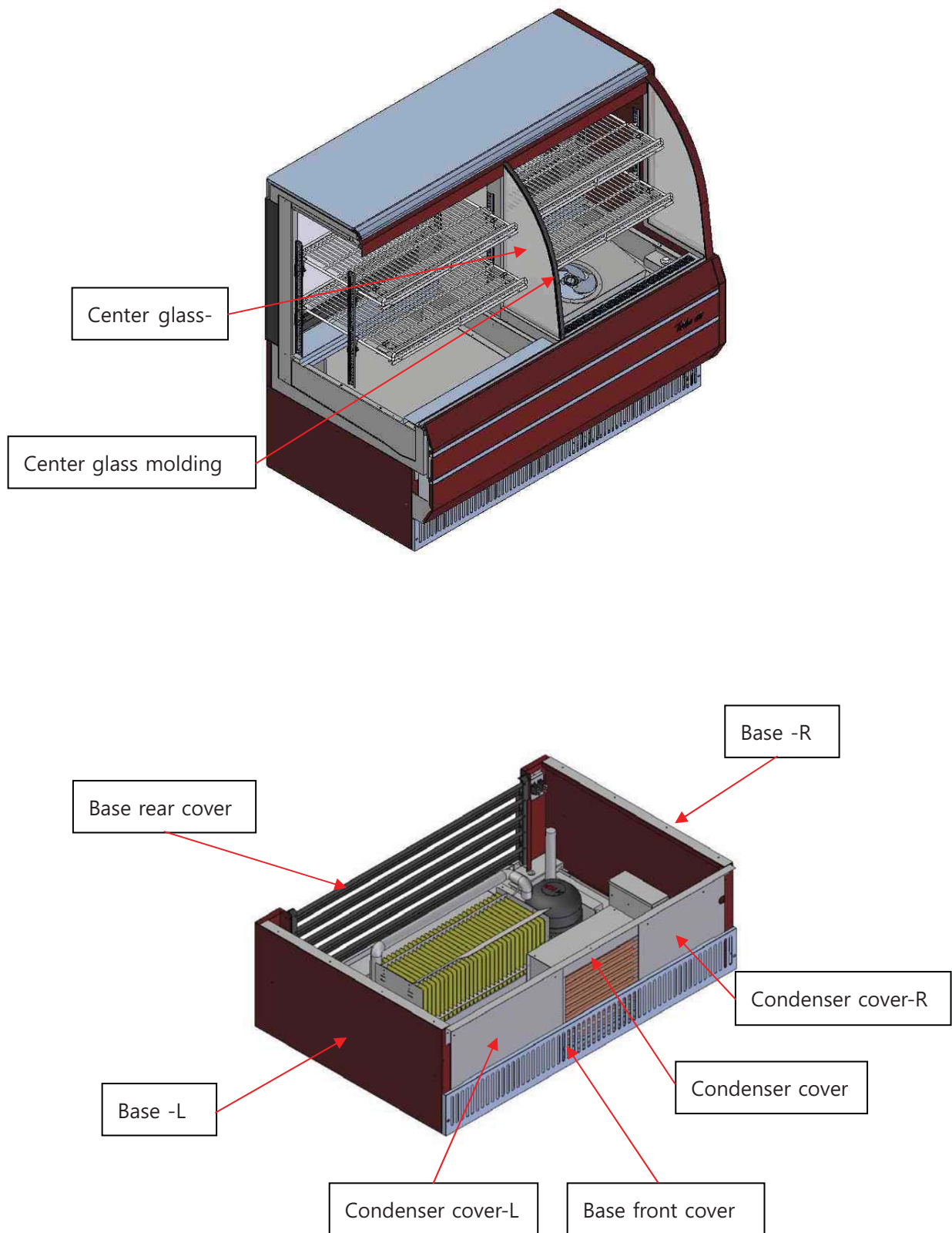


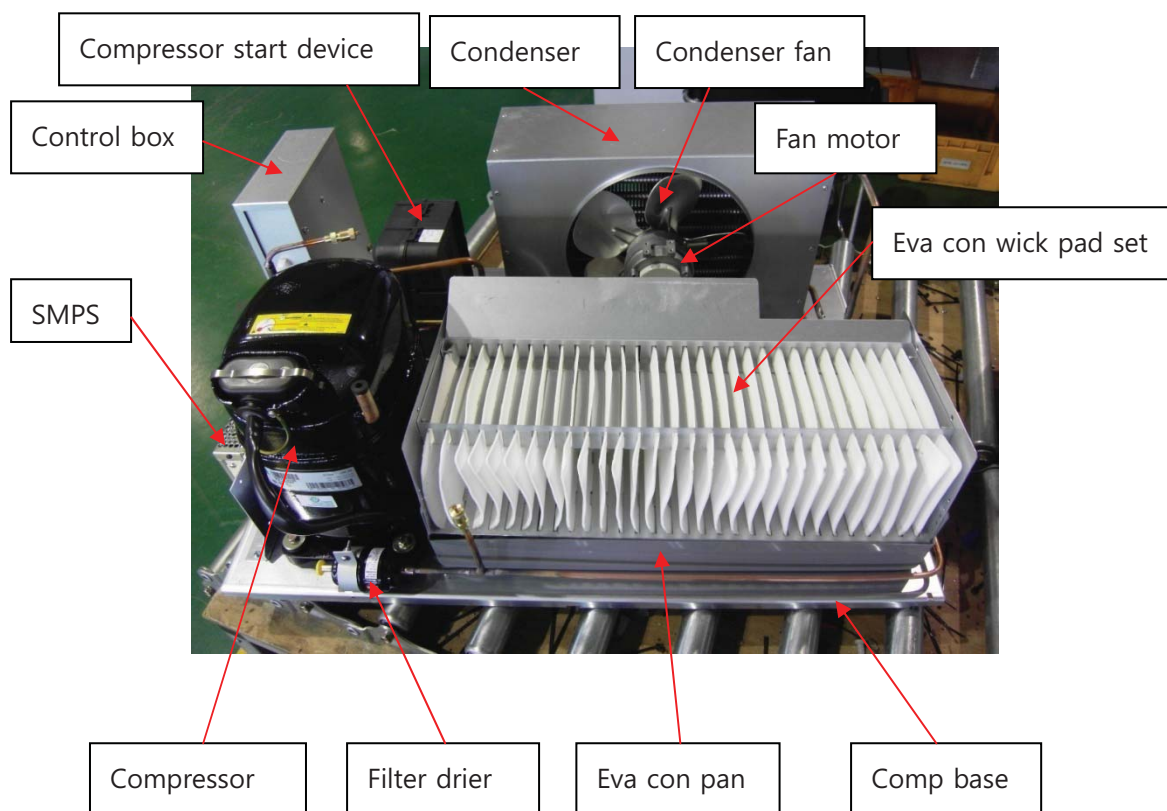
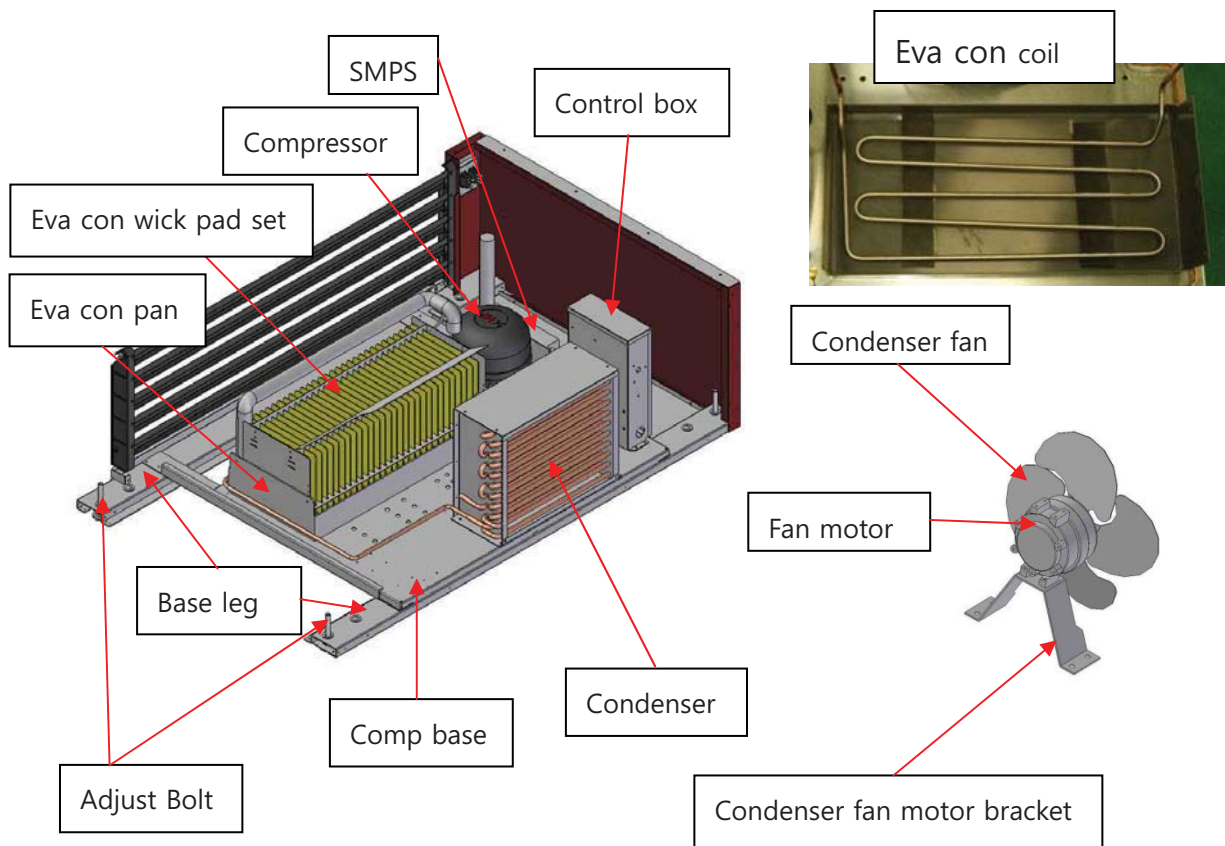




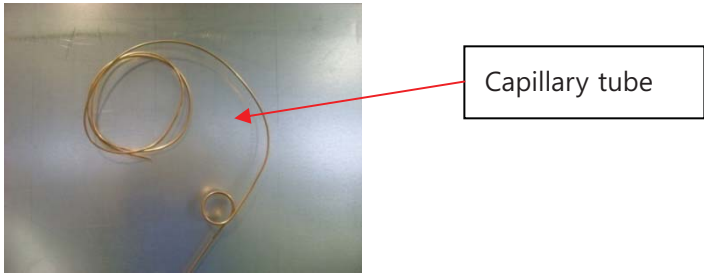


TCGB-**-*-CO

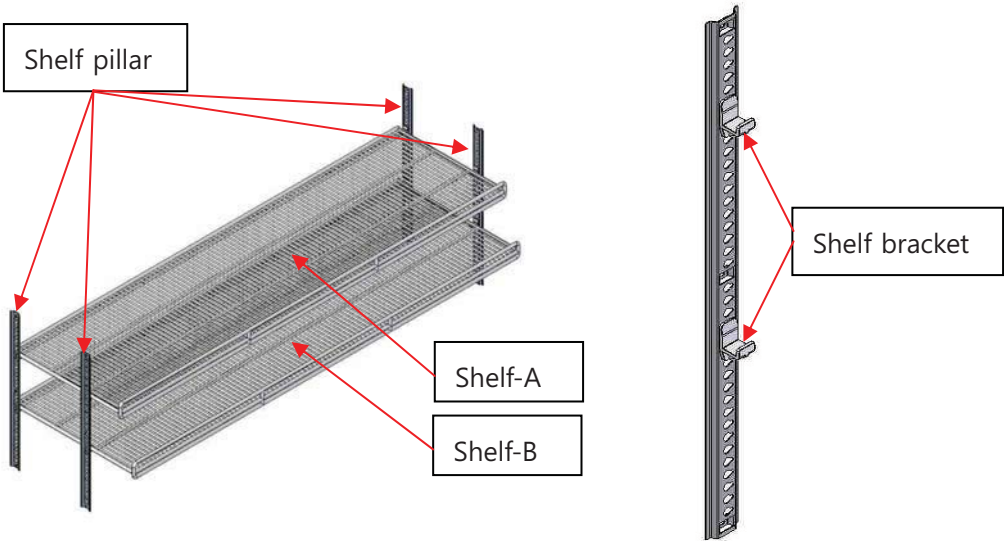


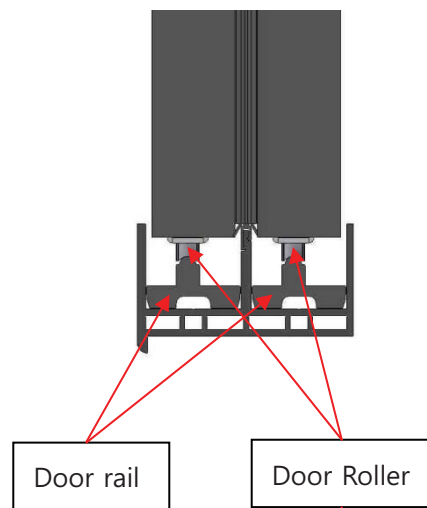
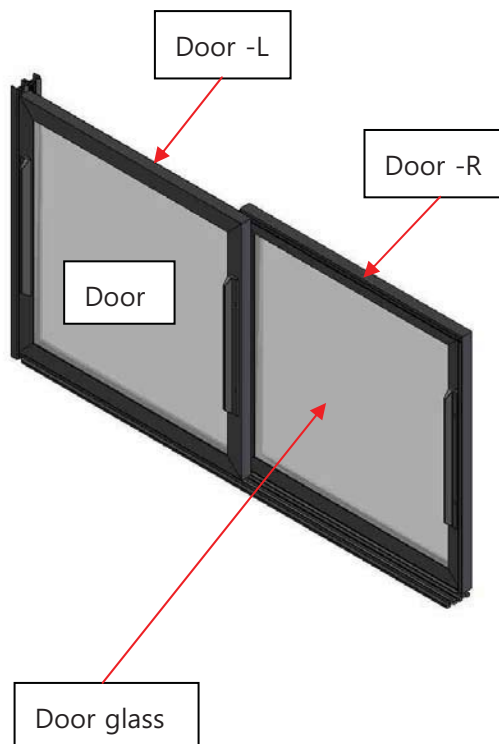
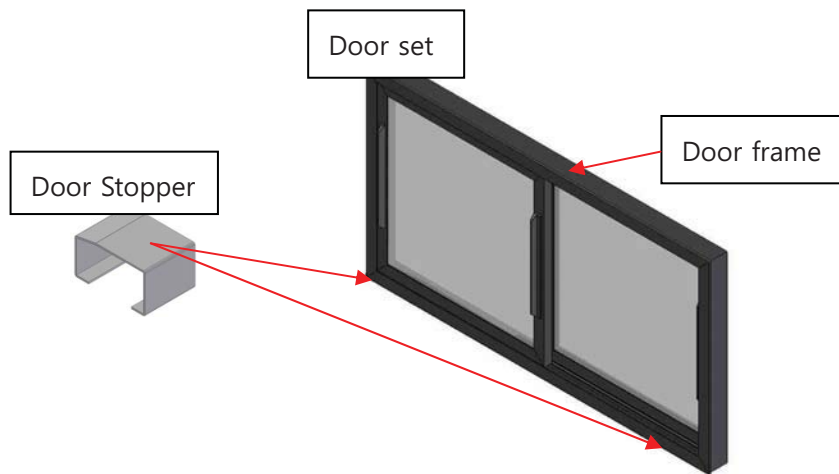


Capillary tube



	Capillary tube		Refrigerant		Compressor
	(inside diameter)	Length			
TCGB-36-2(*)	2.8 mm, (1.48 mm)	2.6 m	R134a	400g	HK6A1C2U
TCGB-48-2(*)	2.8 mm, (1.48 mm)	2.2 m	R134a	450g	HK6A1C2U
TCGB-60-2(*)	3.0 mm, (1.6 mm)	3.5 m	R134a	700g	CAJ4476Y
TCGB-72-2(*)	3.0 mm, (1.6 mm)	3.2 m	R134a	800g	CAJ4492Y
TCGB-60-2-CO(*)	2.8 mm, (1.48 mm)	3.0 m	R134a	400g	HK6A1C2U
TCGB-72-2-CO(*)	2.8 mm, (1.48 mm)	3.0 m	R134a	400g	HK6A1C2U

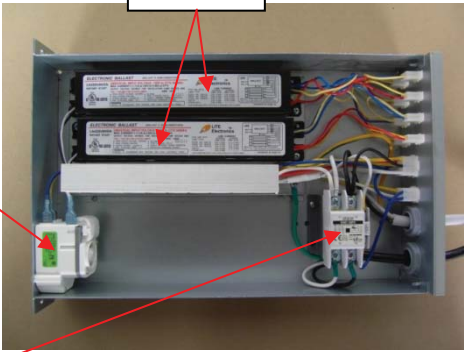
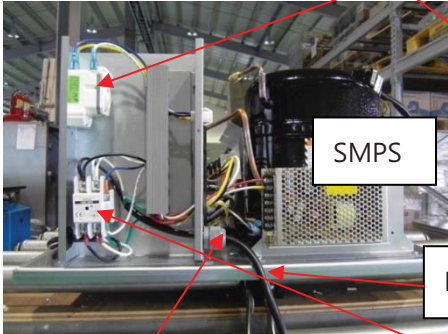




Control box

Defroster Timer

Ballast



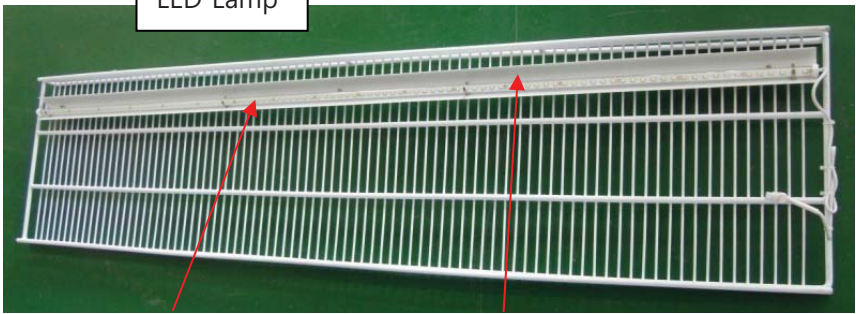
SMPS

Power cord

Cable gland

Magnetic contactor
(Power Relay)

LED Lamp



LED Lamp

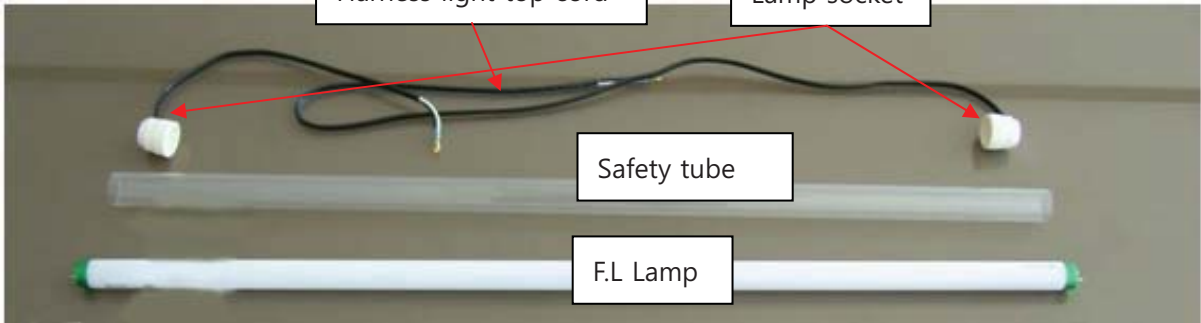
LED Lamp cover



LED Lamp holder

Harness light top cord

Lamp socket



Safety tube

F.L. Lamp

PART LIST

	PART NAME	TCGB-36-2	TCGB-48-2	TCGB-60-2	TCGB-72-2	TCGB-60-2-CO	TCGB-72-2-CO
1	ADJUST BOLT (1/2")	4	4	4	4	4	4
2	BALLAST	1	1	1	1	2	2
3	BASE FRONT COVER	1	1	1	1	1	1
4	BASE FRONT PANEL BRACKET-L	1	1	1	1	1	1
5	BASE FRONT PANEL BRACKET-R	1	1	1	1	1	1
6	BASE LEG	2	2	2	2	2	2
7	BASE REAR COVER	1	1	1	1	1	1
8	BASE-L	1	1	1	1	1	1
9	BASE-R	1	1	1	1	1	1
10	BOTTOM SHELF	3	3	4	4	4	4
11	BUMPER BAND	2	2	2	2	2	2
12	CABLE GLAND	1	1	1	1	1	1
13	CAPILLARY TUBE	1	1	1	1	1	1
14	CENTER GLASS					1	1
15	CENTER GLASS MOLDING					1	1
16	COMP BASE	1	1	1	1	1	1
17	COMPRESSOR	1	1	1	1	1	1
18	CONDENSER	1	1	1	1	1	1
19	CONDENSER COVER	1	1	1	1	1	1
20	CONDENSER COVER-L	1	1	1	1	1	1
21	CONDENSER COVER-R	1	1	1	1	1	1
22	CONDENSER FAN	1	1	1	1	1	1
23	CONDENSER FAN MOTOR BRACKET	1	1	1	1	1	1
24	CONTROL BOX	1	1	1	1	1	1
25	DEFROST TIMER	1	1	1	1	1	1
26	DOOR FRAME	1	1	1	1	1	1
27	DOOR GLASS	2	2	2	2	2	2
28	DOOR RAIL	2	2	2	2	2	2
29	DOOR ROLLER	4	4	4	4	4	4
30	DOOR SET	2	2	2	2	2	2
31	DOOR STOPPER	2	2	2	2	2	2
32	DOOR-L	1	1	1	1	1	1
33	DOOR-R	1	1	1	1	1	1
34	DRAIN FILTER	1	1	1	1	1	1
35	EVA CON COIL	1	1	1	1	1	1
36	EVA CON PAN	1	1	1	1	1	1
37	EVA CON WICK PAD SET	1	1	1	1	1	1
38	EVA FAN	1	1	1	2	1	1
39	EVA FAN COVER	1	1	1	1	1	1
40	EVA FAN MOTOR BRACKET	1	1	1	2	1	1
41	EVA FAN SET	1	1	1	2	1	1

	PART NAME	TCGB-36-2	TCGB-48-2	TCGB-60-2	TCGB-72-2	TCGB-60-2-CO	TCGB-72-2-CO
42	EVAPORATOR	1	1	1	1	1	1
43	F.L LAMP	18W X 3	30W X 3	32W X 3	32W X 3	18W X 6	18W X 6
44	FAN MOTOR	2	2	2	3	2	2
45	FILTER DRIER	1	1	1	1	1	1
46	FRAME SET-L	1	1	1	1	1	1
47	FRAME SET-R	1	1	1	1	1	1
48	FRONT GLASS	1	1	1	1	1	1
49	FRONT GLASS MOLDING-L	1	1	1	1	1	1
50	FRONT GLASS MOLDING-R	1	1	1	1	1	1
51	FRONT PANEL BRACKET-L	1	1	1	1	1	1
52	FRONT PANEL BRACKET-R	1	1	1	1	1	1
53	FRONT PANEL DOWN	1	1	1	1	1	1
54	FRONT PANEL UP	1	1	1	1	1	1
55	HARNESS LIGHT CORD	2	2	2	2	2	2
56	HARNESS LIGHT TOP CORD	1	1	1	1	1	1
57	HINGE	2	2	2	2	2	2
58	LAMP SOCKET	6	6	6	6	12	12
59	LAMP SWITCH	1	1	1	1	1	1
60	LED LAMP	800 X 3	1100 x 3	1400 x 3	1700 x 3	600 x 6	800 x 6
61	LED LAMP COVER	2	2	2	2	4	4
62	LED LAMP HOLDER	9	9	12	12	12	18
63	MAGNETIC CONTACTOR	1	1	1	1	1	1
64	POWER CORD	1	1	1	1	1	1
65	POWER SWITCH	1	1	1	1	1	1
66	SAFETY TUBE	3	3	3	3	6	6
67	SCREW-75	12	12	12	12	12	12
68	SHELF BRACKET	8	8	8	8	16	16
69	SHELF PILLAR	4	4	4	4	8	8
70	SHELF-A	1	1	1	1	2	2
71	SHELF-B	1	1	1	1	2	2
72	SIDE GLASS MOLDING-L	1	1	1	1	1	1
73	SIDE GLASS MOLDING-R	1	1	1	1	1	1
74	SIDE GLASS-L	1	1	1	1	1	1
75	SIDE GLASS-M	1	1	1	1	1	1
76	SIDE GLASS-R	1	1	1	1	1	1
77	SIDE PANEL-L	1	1	1	1	1	1
78	SIDE PANEL-R	1	1	1	1	1	1
79	SMPS	1	1	1	1	1	1
80	SUCTION GRILL	1	1	1	1	2	2
81	SUCTION GRILL BRACKET	1	1	1	1	2	2
82	THERMOMETER	1	1	1	1	1	1
83	THERMOSTAT	1	1	1	1	1	1
84	TOP COVER	1	1	1	1	1	1

	PART NAME	TCGB-36-2	TCGB-48-2	TCGB-60-2	TCGB-72-2	TCGB-60-2-CO	TCGB-72-2-CO
85	TOP MOLDING	1	1	1	1	1	1
86	VANE GUIDE SET	1	1	1	1	1	1
87	WASHER (M8)	12	12	12	12	12	12
88							
89							
90							
91							
92							
93							
94							
95							

◇ PART ORDER EXAMPLE

Example: TCGB48-2-W, TOP MOLDING, QTY