

Open Display Merchandiser Service Manual

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

TOM-36DX
TOM-48DX
TOM-60DX

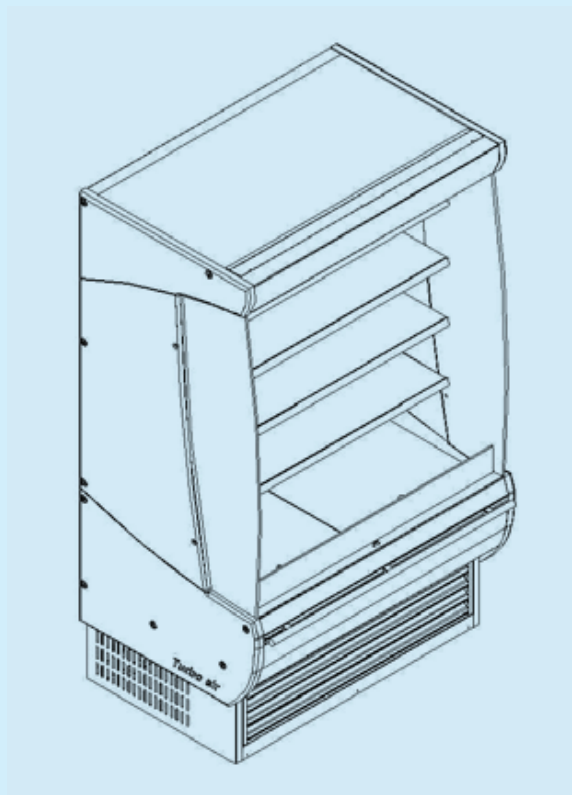


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MAIN COMPONENTS

1. Compressor

Manufacturer	Tecumseh.	Embraco
Designation	CAJ9513Z	NT6226GK
Electrical Rating		
V, Hz, Phase	115 V, 60 Hz, 1 Ph	
RLA(+)	15.66	
LRA	75A	77A

2. Overload Protector

Manufacturer	Texas Instruments	
Model or Designation	CRA38012	

3. Starting Capacitor, Run Capacitor

Rating, uF, V	315uF, 160 V	243~292uF, 250V
Rating, uF, V	30uF, 400 V	40uF, 440V

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. Water condensing Fan Motor,

Manufacturer	Geenam Electric
Model	SE-083
Rating V, Hz, Phase, A or W	115 V, 60 Hz, 1 Ph, 1.1 A, 16 W

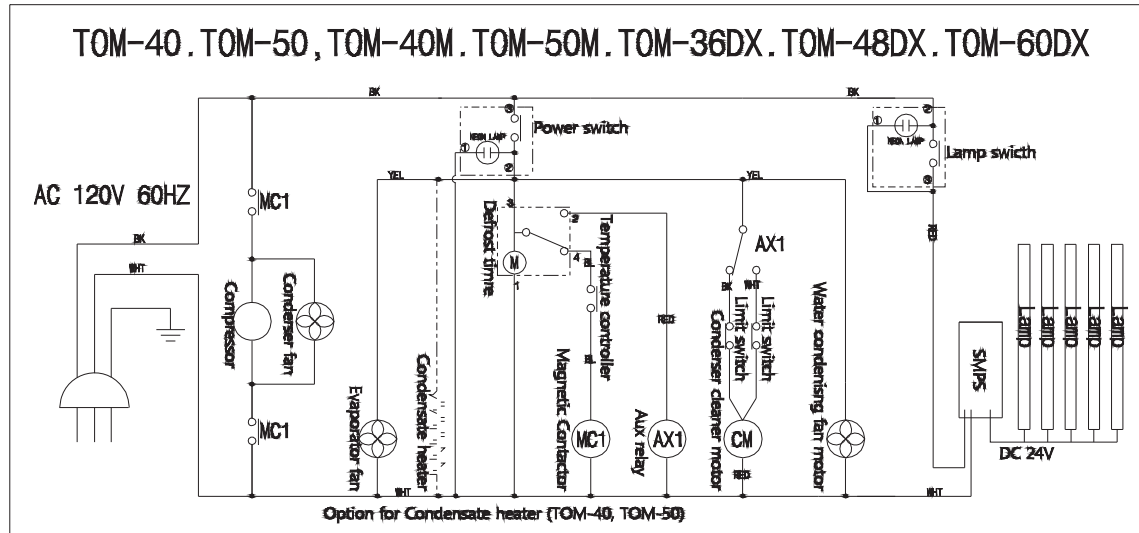
6. Thermostat (Refrigeration Controller)

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

7. LED LAMP, POWER SUPPLY

	LED LAMP			POWER SUPPLY SMPS
	LENGTH	WATT	EACH	
TOM-36DX	800 mm	9.6 W	6 EA	NES-100-24, LS100-24
TOM-48DX	1100 mm	13.2 W	6 EA	NES-150-24, LS150-24
TOM-60DX	1400 mm	16.8 W	6 EA	NES-150-24, LS150-24

WIRING DIAGRAM



TEMPERATURE CONTROL INSTRUCTION

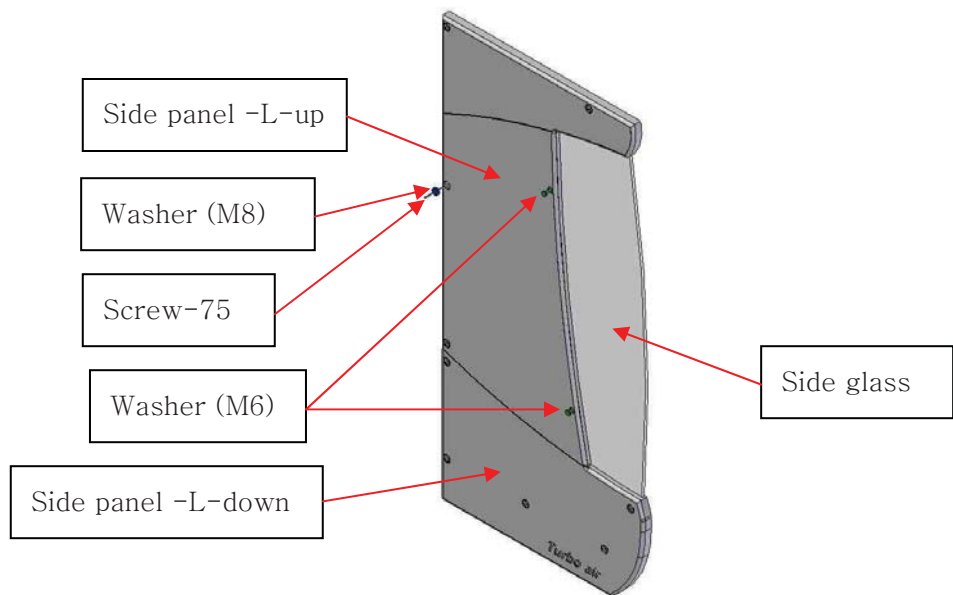
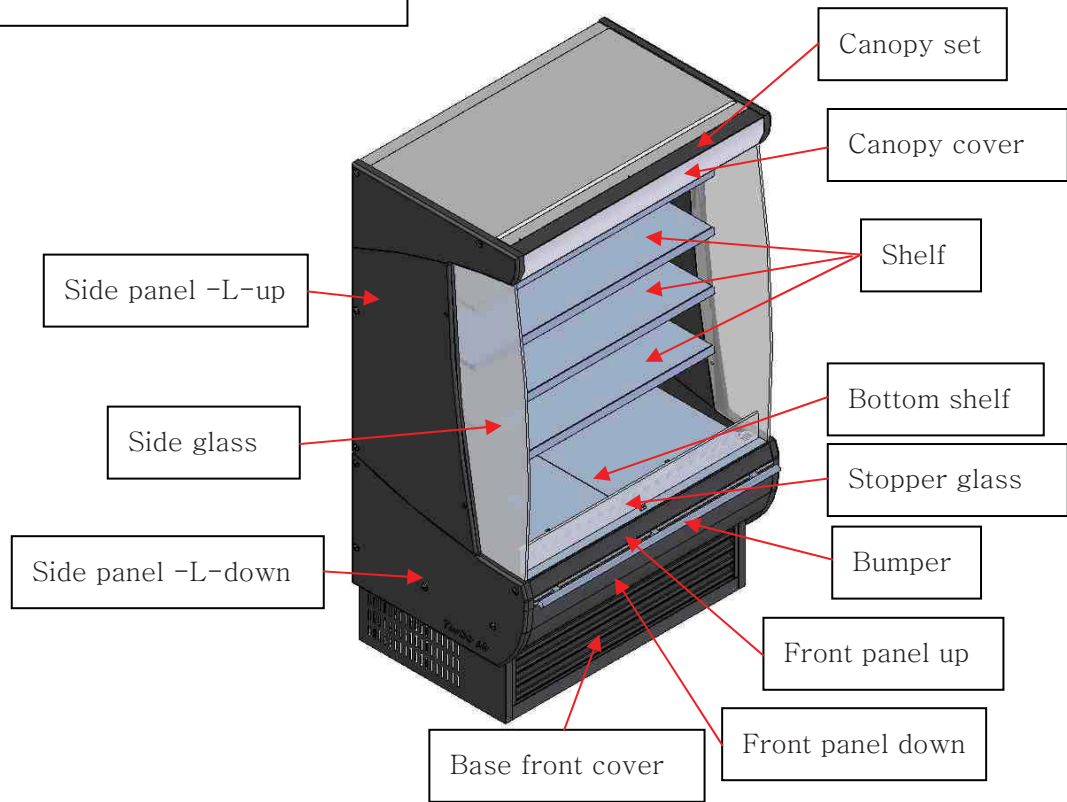


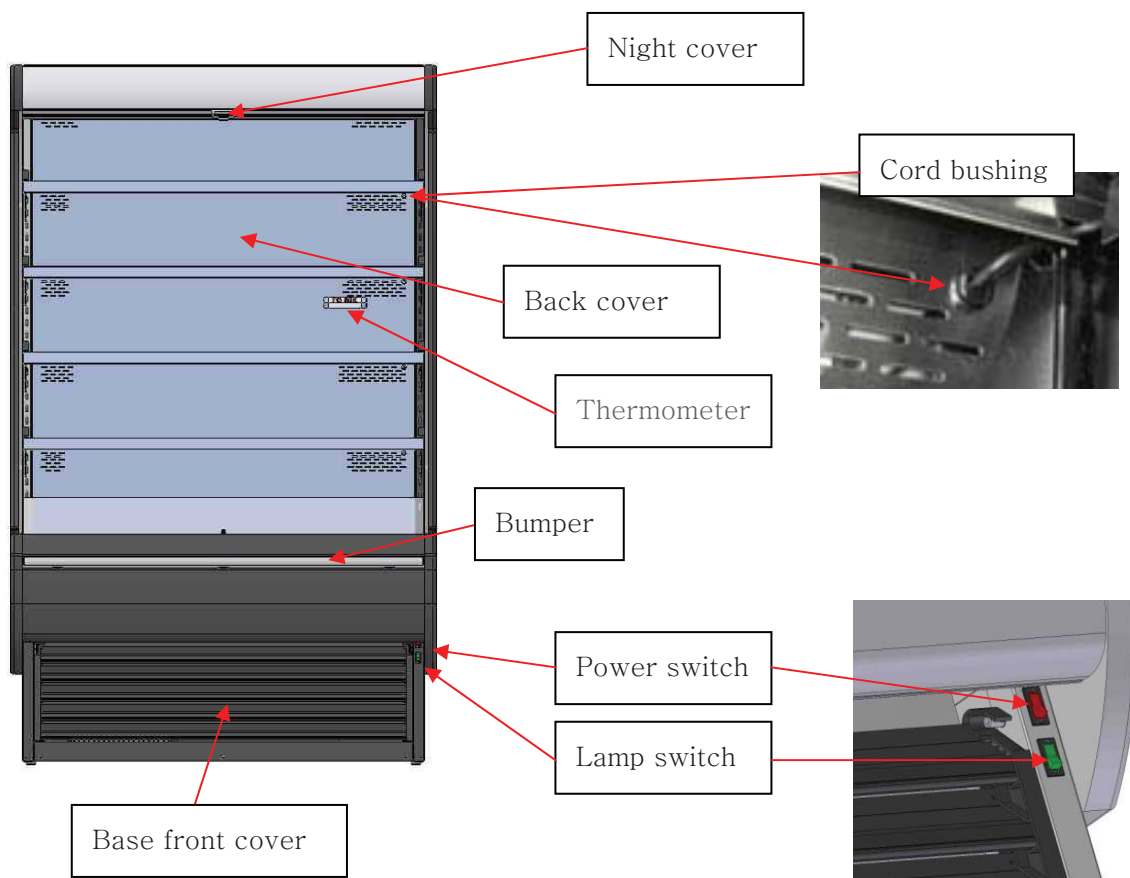
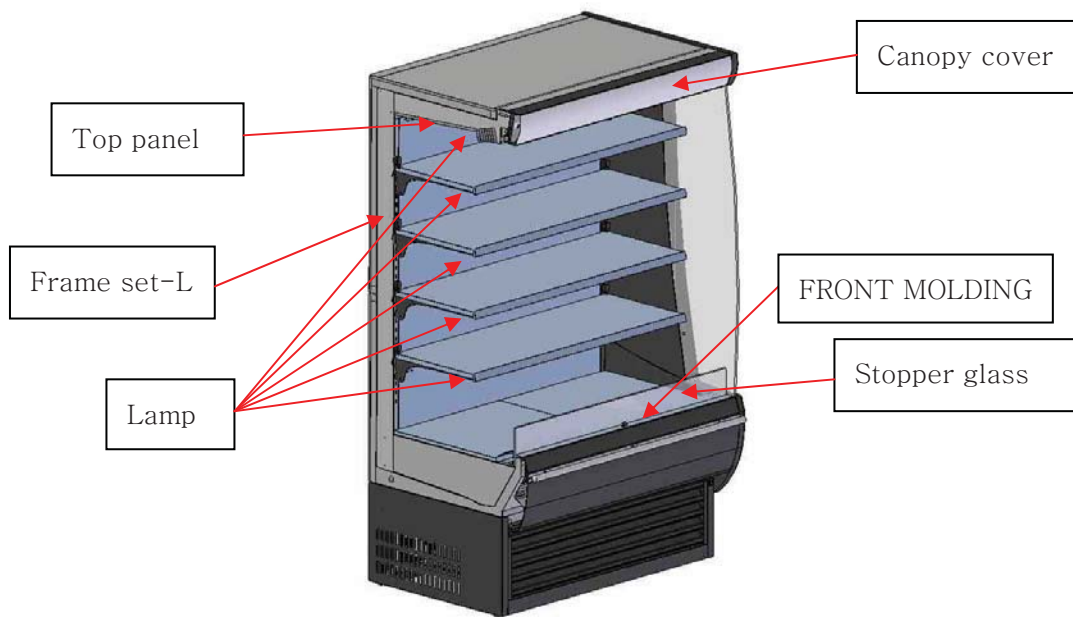
The temperature control is located near the front right hand side underneath the bottom shelf.

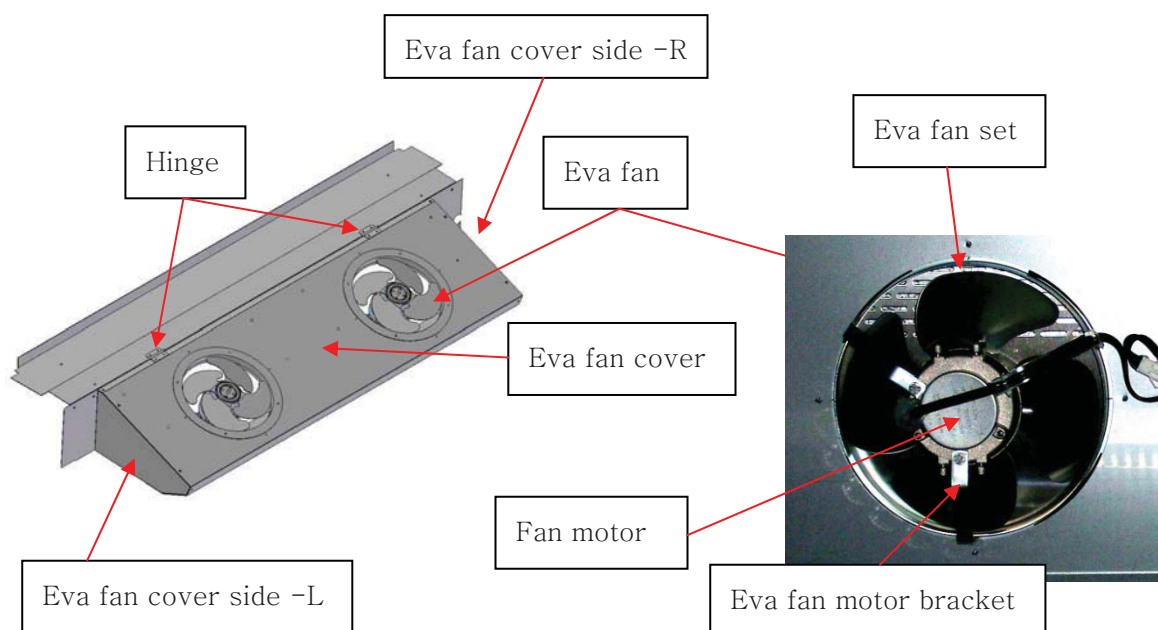
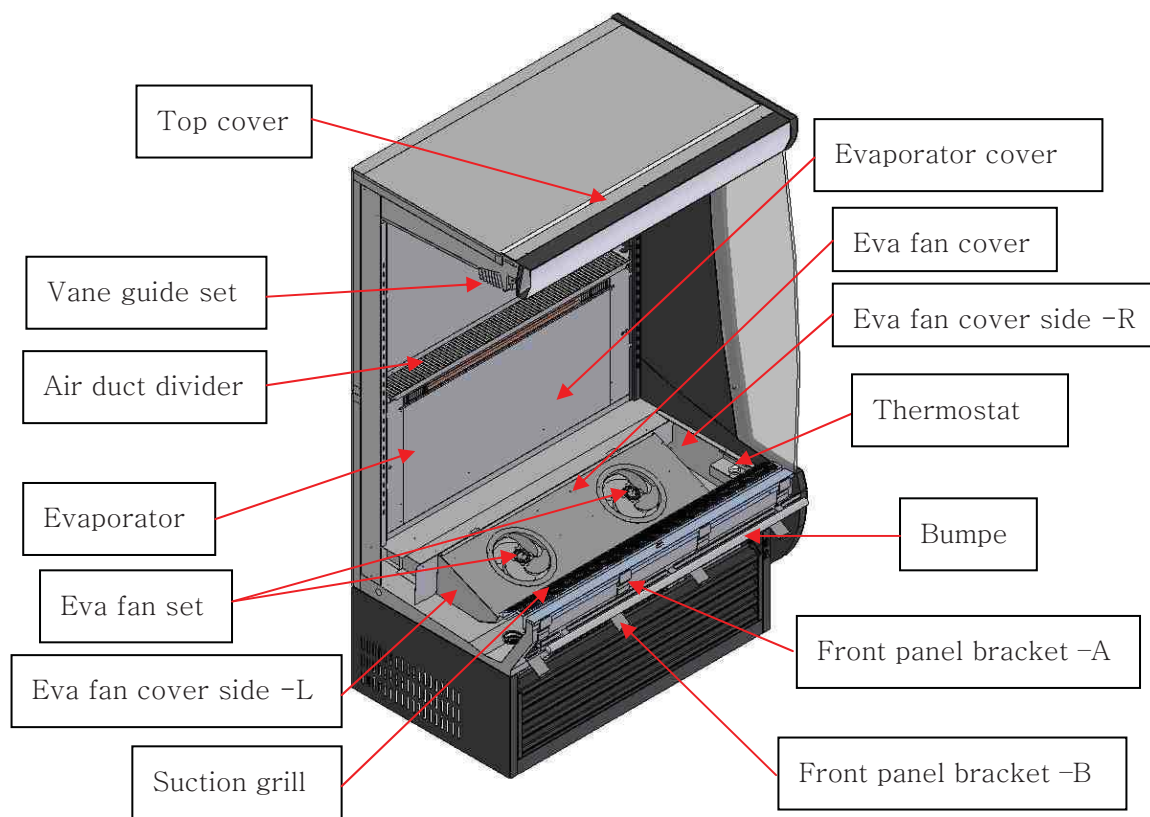
1. The original setting for the control is Normal.
2. The working temperature is from 37°F to 40°F.
3. To lower the temperature, turn the knob slightly to "COLD". To raise the temperature, turn the knob to "WARM".
4. In case of icing due to the hike of ambient temperature or humidity, turn the knob slightly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

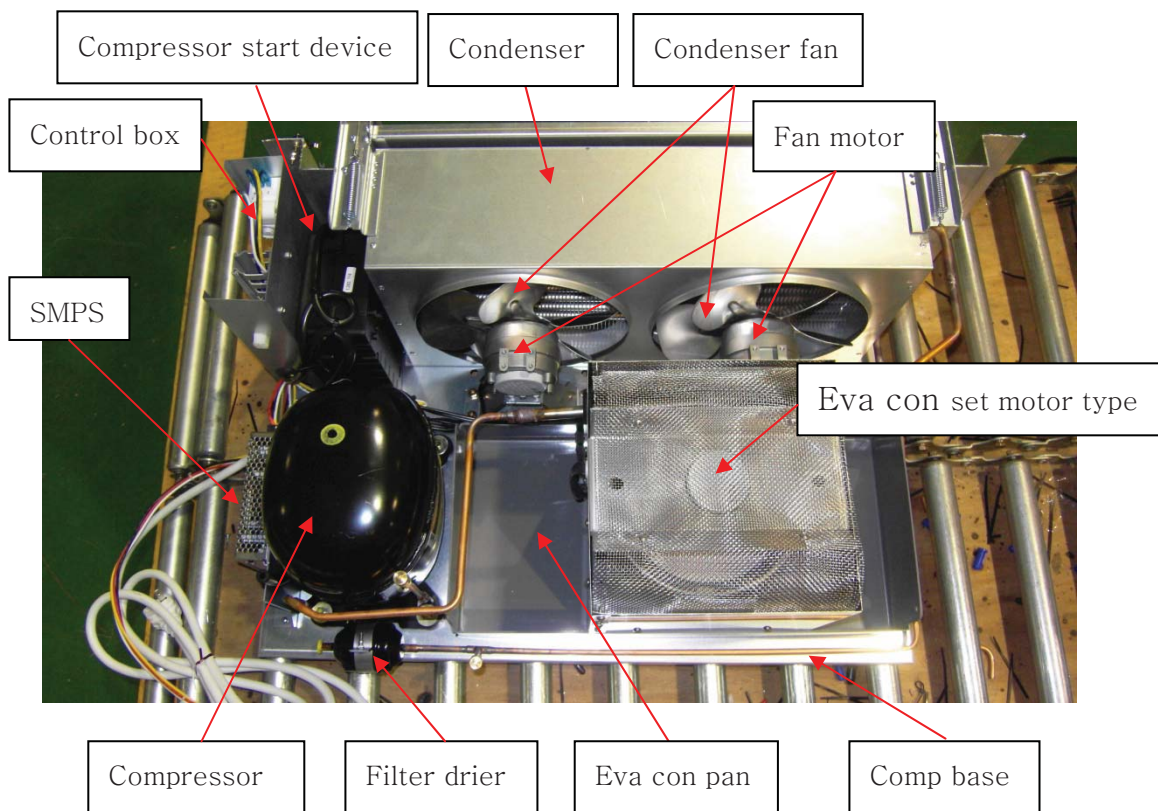
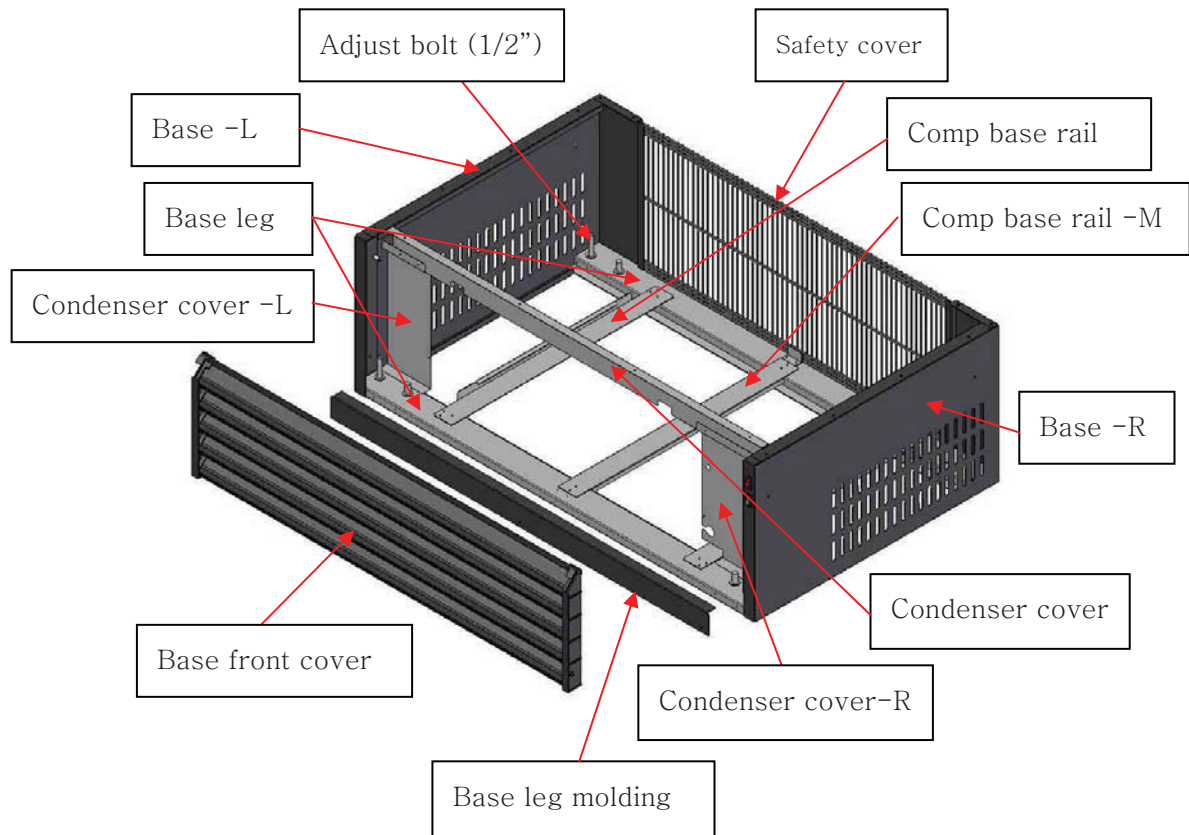
[Display is designed to be in an area that is ambient 75 degrees Fahrenheit (dry bulb) or colder and 55 percent relative humidity.]

PART NAME

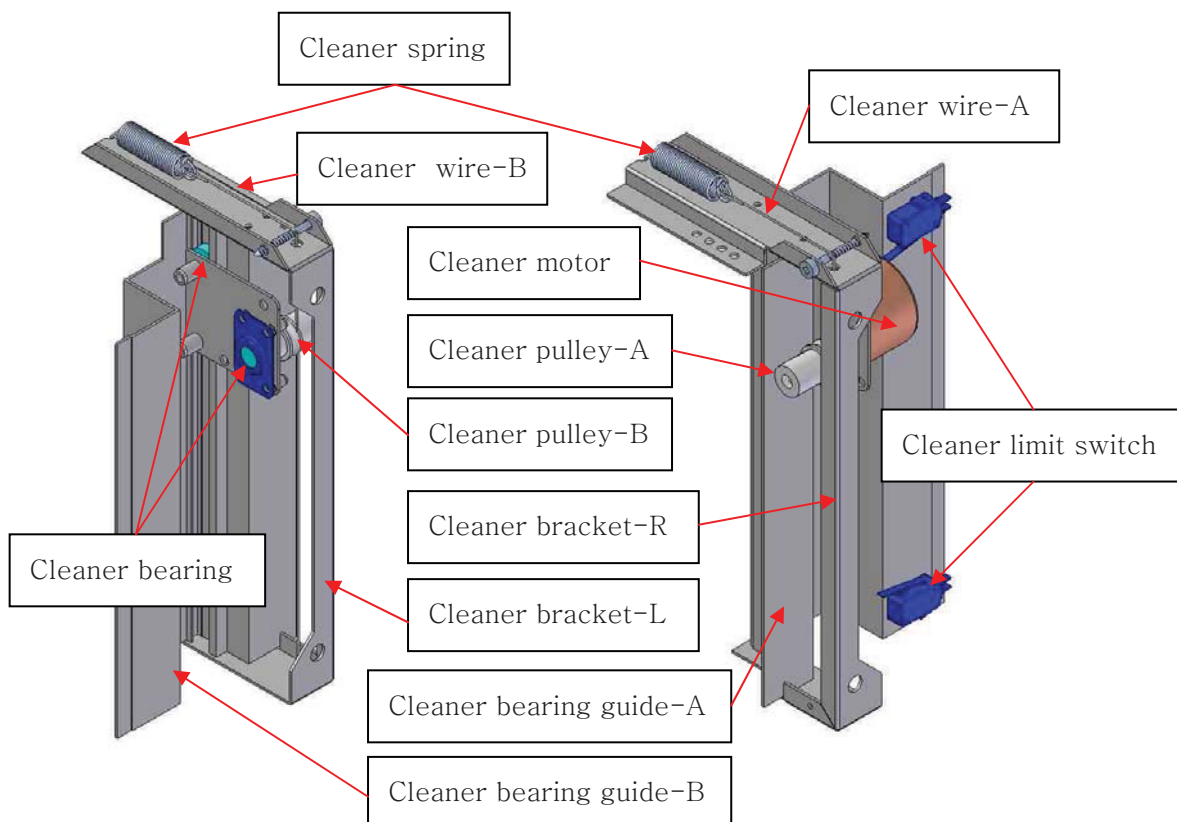
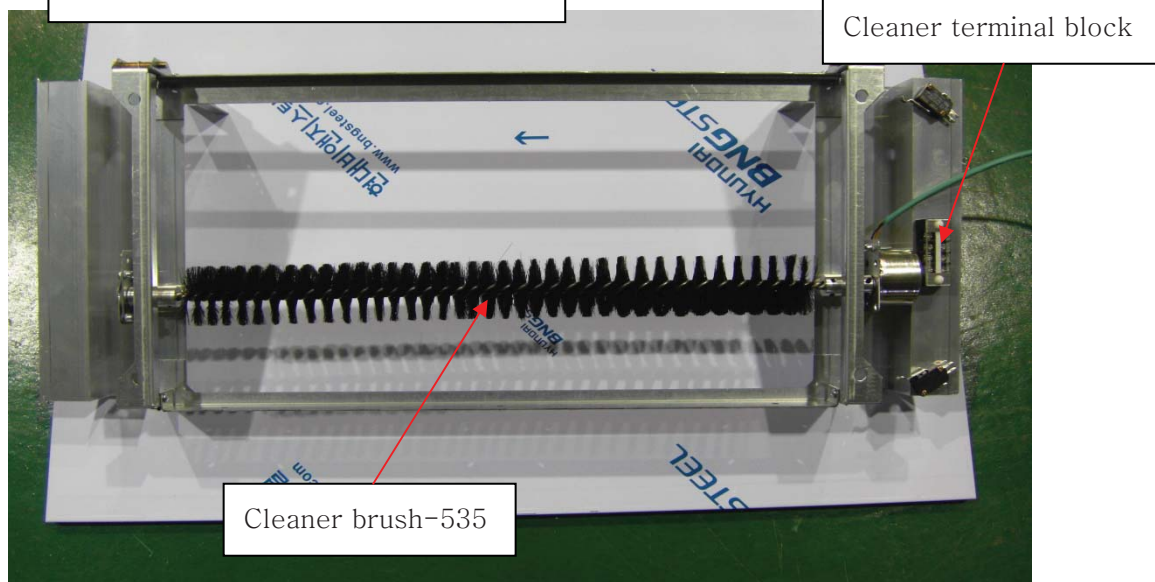


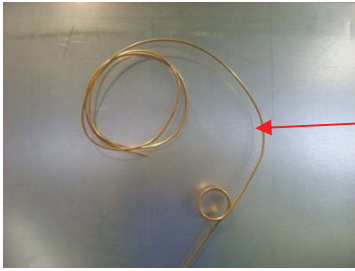






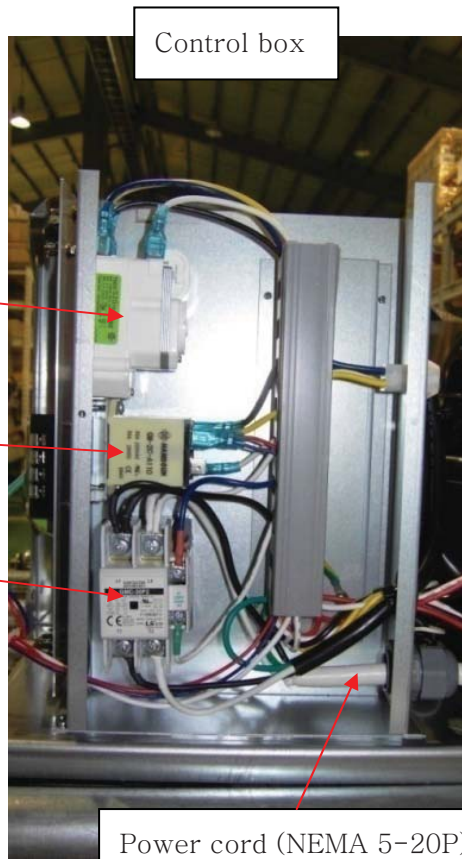
Condenser cleaner set





Capillary tube

	Capillary tube		Refrigerant		Compressor
	(inside diameter)	Length			
TOM-36DX	3.4 mm, (2.0 mm)	2.5 m	R-404A	1000g	NT6226GK, CAJ9513Z
TOM-48DX	3.4 mm, (2.0 mm)	2.5 m	R-404A	1100g	NT6226GK, CAJ9513Z
TOM-60DX	3.4 mm, (2.0 mm)	2.0 m	R-404A	1100g	NT6226GK, CAJ9513Z



Control box

Defrost timer

Cleaner relay

Magnetic Contactor

Power cord (NEMA 5-20P)



Thermostat



Defrost timer



Run time: 5 hours

Defrost time: 20 min

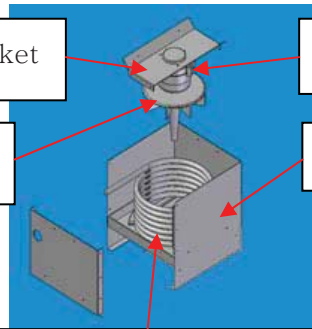
EVA CON SET MOTOR TYPE

Eva con motor bracket

Eva con pump set

Eva con motor

Eva con case

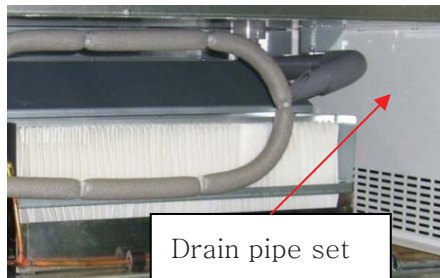


Eva con coil motor type

Drain filter



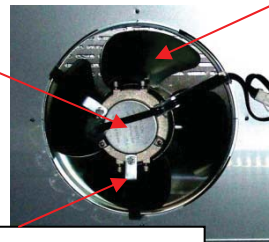
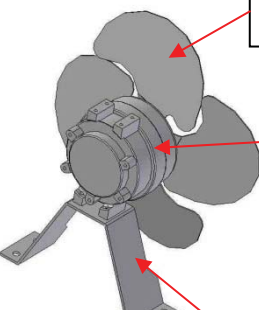
Drain pipe set



Condenser fan

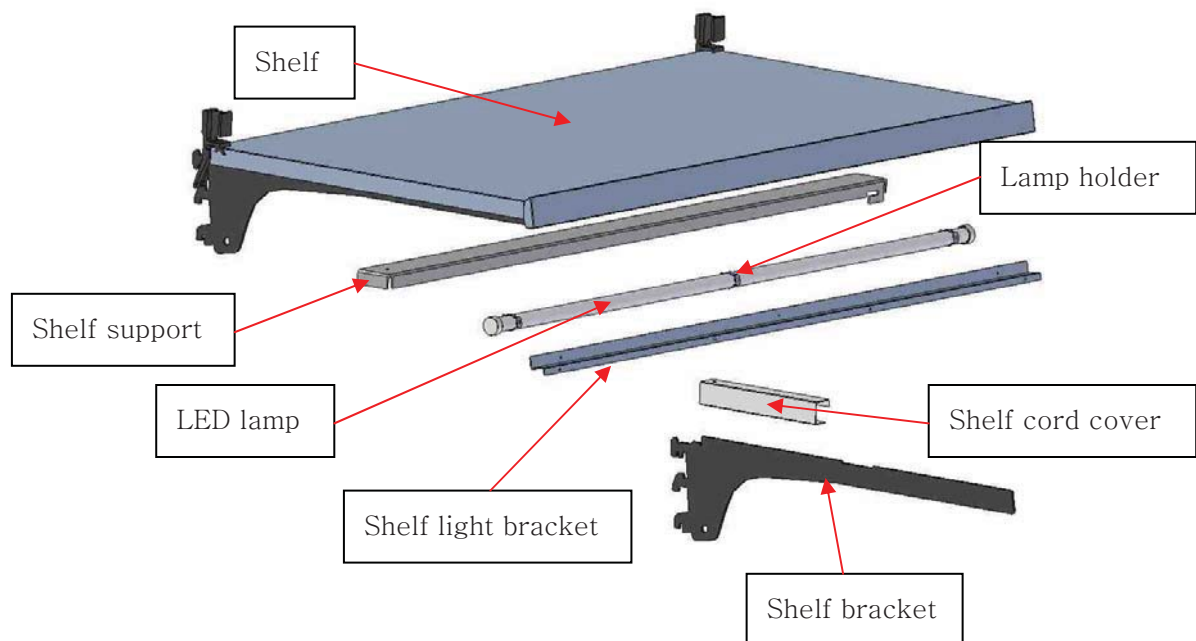
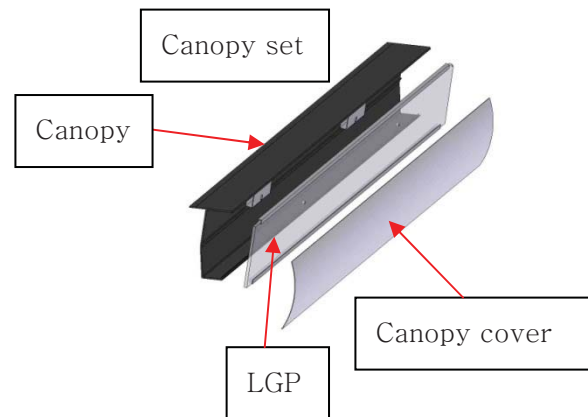
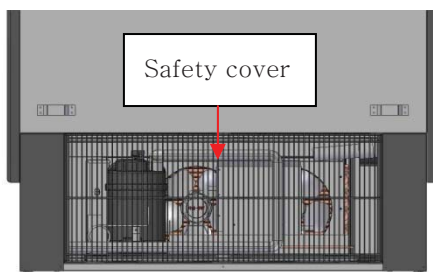
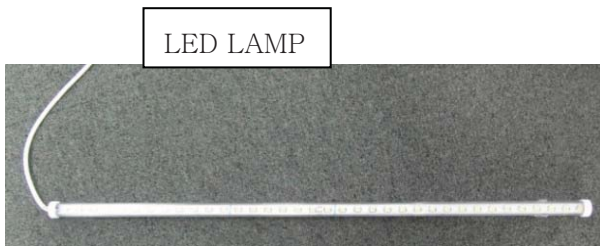
Fan motor

Eva fan



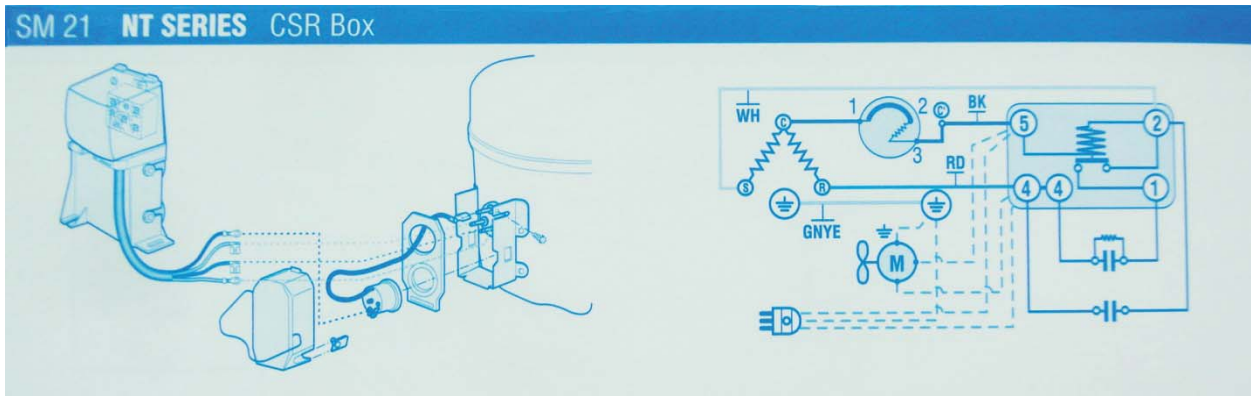
Condenser fan motor bracket

Eva fan motor bracket

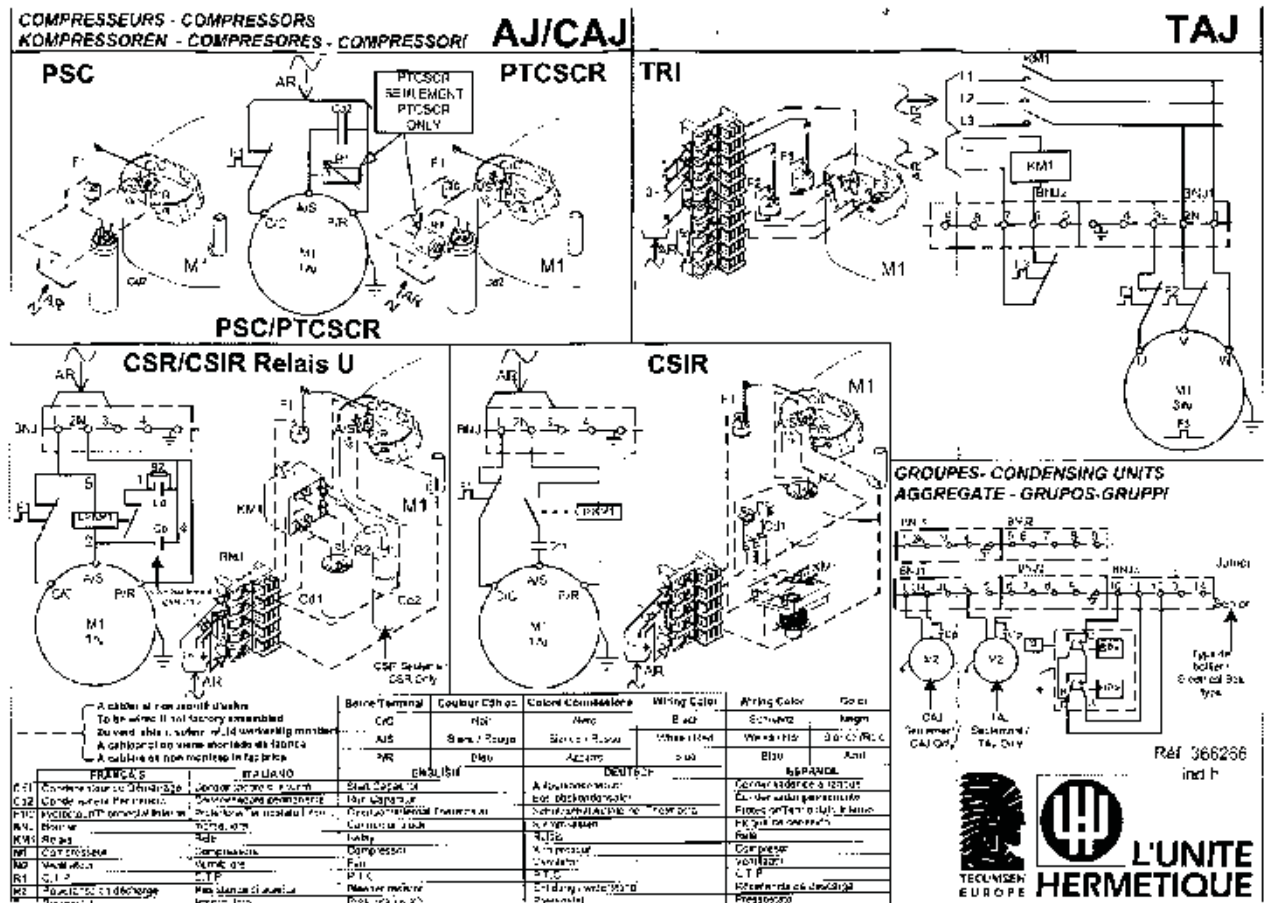


Compressor Assembly Diagrams

NT6226GK



CAJ9513Z



PART LIST

	PART NAME	TOM-36DX	TOM-48DX	TOM-60DX	NOTE
1	ADJUST BOLT (1/2")	4	4	4	
2	AIR DUCT DIVIDER	1	1	1	
3	BACK COVER	1	1	1	
4	BACK COVER-B			1	
5	BASE FRONT COVER	1	1		
6	BASE LEG	2	2	2	
7	BASE LEG MOLDING	1	1	1	
8	BASE-L	1	1	1	
9	BASE-R	1	1	1	
10	BOTTOM SHELF	1	2	2	
11	BUMPER	1	1	1	
12	CANOPY	1	1	1	
13	CANOPY COVER	1	1	1	
14	CANOPY LGP	845 X 1	1150 X 1	1455 X 1	
15	CANOPY SET	1	1	1	
16	CAPILLARY TUBE	1	1	1	
17	CLEANER BEARING	5	5	5	
18	CLEANER BEARING GUIDE-A	1	1	1	
19	CLEANER BEARING GUIDE-B	1	1	1	
20	CLEANER BRACKET-L	1	1	1	
21	CLEANER BRACKET-R	1	1	1	
22	CLEANER BRUSH-535	1	1	1	
23	CLEANER LIMIT SWITCH	2	2	2	
24	CLEANER MOTOR	1	1	1	
25	CLEANER PULLEY-A	1	1	1	
26	CLEANER PULLEY-B	1	1	1	
27	CLEANER RELAY	1	1	1	
28	CLEANER SPRING	2	2	2	
29	CLEANER TERMINAL BLOCK	1	1	1	
30	CLEANER WIRE-A	1	1	1	
31	CLEANER WIRE-B	1	1	1	
32	COMP BASE	1	1	1	

	PART NAME	TOM-36DX	TOM-48DX	TOM-60DX	NOTE
33	COMP BASE RAIL	2	2	2	
34	COMP BASE RAIL-M	1	1	1	
35	COMPRESSOR	1	1	1	
36	COMPRESSOR START DEVICE	1	1	1	
37	CONDENSER	1	1	1	
38	CONDENSER CLEANER SET	1	1	1	
39	CONDENSER COVER	1	1	1	
40	CONDENSER COVER-L	1	1	1	
41	CONDENSER COVER-R	1	1	1	
42	CONDENSER FAN	2	2	2	230mm
43	CONDENSER FAN MOTOR BRACKET	2	2	2	
44	CONTROL BOX	1	1	1	
45	CORD BUSHING	5	5	5	
46	DEFROST TIMER	1	1	1	
47	DRAIN FILTER	1	1	1	
48	DRAIN PIPE SET	1	1	1	
49	EVA CON CASE	1	1	1	
50	EVA CON COIL MOTOR TYPE	1	1	1	
51	EVA CON MOTOR	1	1	1	16W
52	EVA CON MOTOR BRACKET	1	1	1	
53	EVA CON PAN	1	1	1	
54	EVA CON PUMP SET	1	1	1	
55	EVA CON SET MOTOR TYPE	1	1	1	
56	EVA FAN	1	2	2	200mm
57	EVA FAN COVER	1	1	1	
58	EVA FAN COVER SIDE-L	1	1	1	
59	EVA FAN COVER SIDE-R	1	1	1	
60	EVA FAN MOTOR BRACKET	1	2	2	
61	EVA FAN SET	1	2	2	
62	EVAPORATOR	1	1	1	
63	EVAPORATOR COVER	1	1	1	
64	FAN MOTOR	3	4	4	9W
65	FILTER DRIER	1	1	1	
66	FRAME SET-L	1	1	1	

	PART NAME	TOM-36DX	TOM-48DX	TOM-60DX	NOTE
67	FRAME SET-R	1	1	1	
68	FRONT MOLDING	1	1	1	
69	FRONT PANEL BRACKET-A	2	4	4	
70	FRONT PANEL BRACKET-B	2	4	4	
71	FRONT PANEL DOWN	1	1	1	
72	FRONT PANEL UP	1	1	1	
73	HARNESS LIGHT BACK CORD	1	1	1	
74	HARNESS LIGHT TOP CORD	1	1	1	
75	HINGE	2	2	2	
76	LAMP SWITCH	1	1	1	
77	LED LAMP	800 X 5	1100 X 5	1400 X 5	
78	LED LAMP HOLDER	15	15	20	
79	MAGNETIC CONTACTOR	1	1	1	
80	NIGHT COVER	1	1	1	
81	POWER CORD	1	1	1	NEMA5-20P
82	POWER SWITCH	1	1	1	
83	SAFETY COVER	1	1	1	
84	SCREW-75	18	18	18	
85	SHELF	4	4	4	
86	SHELF BRACKET	8	8	8	
87	SHELF CORD COVER	4	4	4	
88	SHELF LIGHT BRACKET	4	4	4	
89	SHELF SUPPORT	4	4	4	
90	SIDE GLASS	2	2	2	
91	SIDE PANEL-L-DOWN	1	1	1	
92	SIDE PANEL-L-UP	1	1	1	
93	SIDE PANEL-R-DOWN	1	1	1	
94	SIDE PANEL-R-UP	1	1	1	
95	SMPS	100W X 1	150W X 1	150W X 1	
96	STOPPER GLASS	1	1	1	
97	SUCTION GRILL	1	1	1	
98	THERMOMETER	1	1	1	
99	THERMOSTAT	1	1	1	
100	TOP COVER	1	1	1	

	PART NAME	TOM-36DX	TOM-48DX	TOM-60DX	NOTE
101	VANE GUIDE SET	1	1	1	
102	WASHER (M6)	18	18	18	
103	WASHER (M8)	4	4	4	
104					
105					
106					
107					
108					
109					
110					
111					
112					
113					

◇ PART ORDER EXAMPLE

Example: TOM-48DXW, SIDE PANEL-R-UP, QTY