

# SERVICE MANUAL

## EDGESTAR VBR SERIES BEVERAGE COOLER

Model:  
VBR240  
VBR440  
VBR640



**CAUTION: READ ALL SAFETY PRECAUTIONS IN THIS MANUAL BEFORE SERVICING THE UNIT**

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# SAFETY PRECAUTIONS

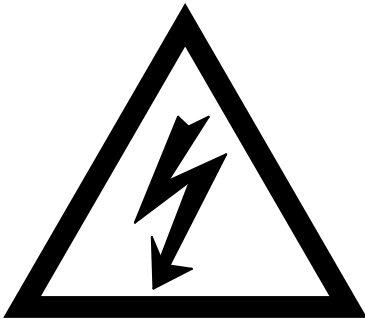
**WARNING: This manual and the information contained herein is intended for use by certified technicians. The manufacturer or seller is not responsible for the interpretation or misuse of the information provided, nor does it assume any liability in connection with its use.**

**The safeguards and warnings indicated in this manual do not cover all possible conditions which may occur. Common sense, caution, and care must be exercised.**


- To prevent electric shock, always unplug an appliance from the power supply before attempting any service.
- Disconnect the power cord by grasping the plug, not the cord.
- Do not bypass, cut, or remove the grounding plug.
- Prevent water from spilling onto electric elements or the machine parts.
- Always refer to the rating label on the appliance for rated current and voltage.
- Always check line voltage and amperage.
- Always use exact replacement parts.
- Any attempt to repair a major appliance may result in personal injury and property damage.

## Electrical Safety

- Do not exceed the power outlet ratings.
- It is recommended that the unit be connected to its own circuit.
- A standard electrical supply that is properly grounded in accordance with the National Electrical Code and all state and local codes and ordinances is required.
- Do not use outlets that can be turned off by a switch or pull chain.
- Always turn the unit off and unplug it from the outlet when cleaning.
- Unplug the unit if it is not going to be used for an extended period of time.
- Do not operate the unit with a power plug missing the ground plug, a damaged cord, or a loose socket.
- Be sure the appliance is properly grounded.
- Do not bypass, cut, or remove the grounding plug.
- If the power cord is damaged, it must be replaced by the manufacturer or a qualified technician.
- Do not use extension cords or power strips with this unit. You may need to contact an electrician if it is necessary to use a longer cord or if you do not have a properly grounded outlet. Do not modify the power cord's length or share the outlet with other appliances.
- Do not start or stop the unit by switching the electrical circuit's power on and off.
- Immediately unplug the unit if it makes strange sounds, emits an odor or smoke and contact customer service.
- Do not remove any part of the casing unless instructed by an authorized technician.
- Before the appliance is removed from service or discarded, remove any doors and cut off the power cord.



**! WARNING**



**Electrical Shock Hazard**  
Connect to a grounded 3 prong outlet with an individual 12 amp branch circuit protected by a 12 amp circuit breaker. Connect to individual branch circuit. Do not remove ground prong. Do not use an adapter. Do not use an extension cord. Failure to follow these instructions can result in electrical shock, fire, or death.

## General Safety

- Always unplug an appliance from the power supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
- Do not allow children or pets to play on or in the appliance.
- This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the machine by a person responsible for their safety.
- Do not install or store this appliance where it will be exposed to the weather.
- Disconnect from the power socket before cleaning or maintenance.
- If the plug (power cord) is damaged, it must be replaced by the manufacturer or an authorized service representative.
- This machine shall be repaired only by an authorized service representative. Only genuine replacement parts should be used.
- If connected to a circuit protected by fuses, use time-delay fuses with this appliance.
- Do not lean items against the glass door.
- Please do not close the door with excessive force. If it is found difficult to close the door, please check for obstruction.
- When you plan to dispose of this unit in the future, please comply with the local waste disposal regulations. Remove any doors so that children and pets will not be trapped in the unit.

# Specifications

## VBR240

Voltage / Frequency	AC 115V~60Hz
Amperage	1.1A
Input Power	120W
Color	White Cabinet; Stainless Steel Door
Refrigerant	R600a, 1.41 oz.
Temperature Range	36 - 43°F
Dimensions (Height x Width x Depth )	49 1/4" x 21 1/2" x 24"
Weight	112 pounds

## VBR440

Voltage / Frequency	AC 115V~60Hz
Amperage	1.7A
Input Power	180W
Color	White Cabinet; Stainless Steel Door
Refrigerant	R600a, 1.66 oz.
Temperature Range	36 - 43°F
Dimensions (Height x Width x Depth )	58 1/8" x 23 1/2" x 24 1/4"
Weight	141 pounds

## VBR440

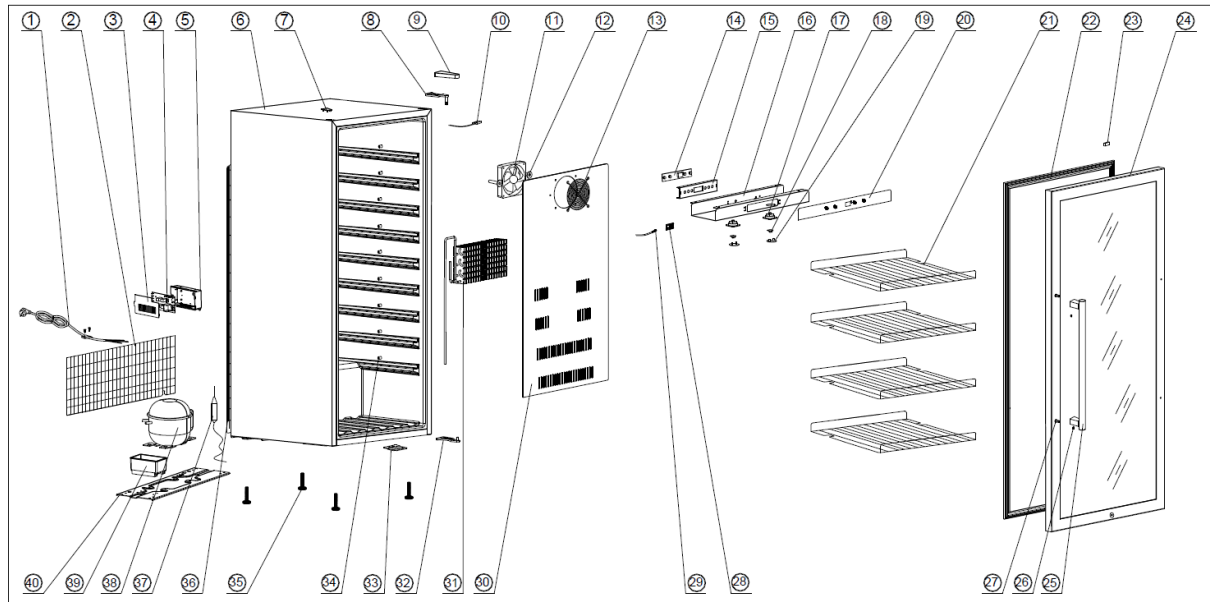
Voltage / Frequency	AC 115V~60Hz
Amperage	1.7A
Input Power	180W
Color	White Cabinet; Stainless Steel Door
Refrigerant	R600a, 1.66 oz.
Temperature Range	36 - 43°F
Dimensions (Height x Width x Depth )	69 11/16" x 23 3/8" x 24 15/16"
Weight	151 pounds

# Exploded View and Parts List

**\*\*NOTE:** Not all parts are stocked or considered serviceable / replaceable by manufacturer

## VBR240

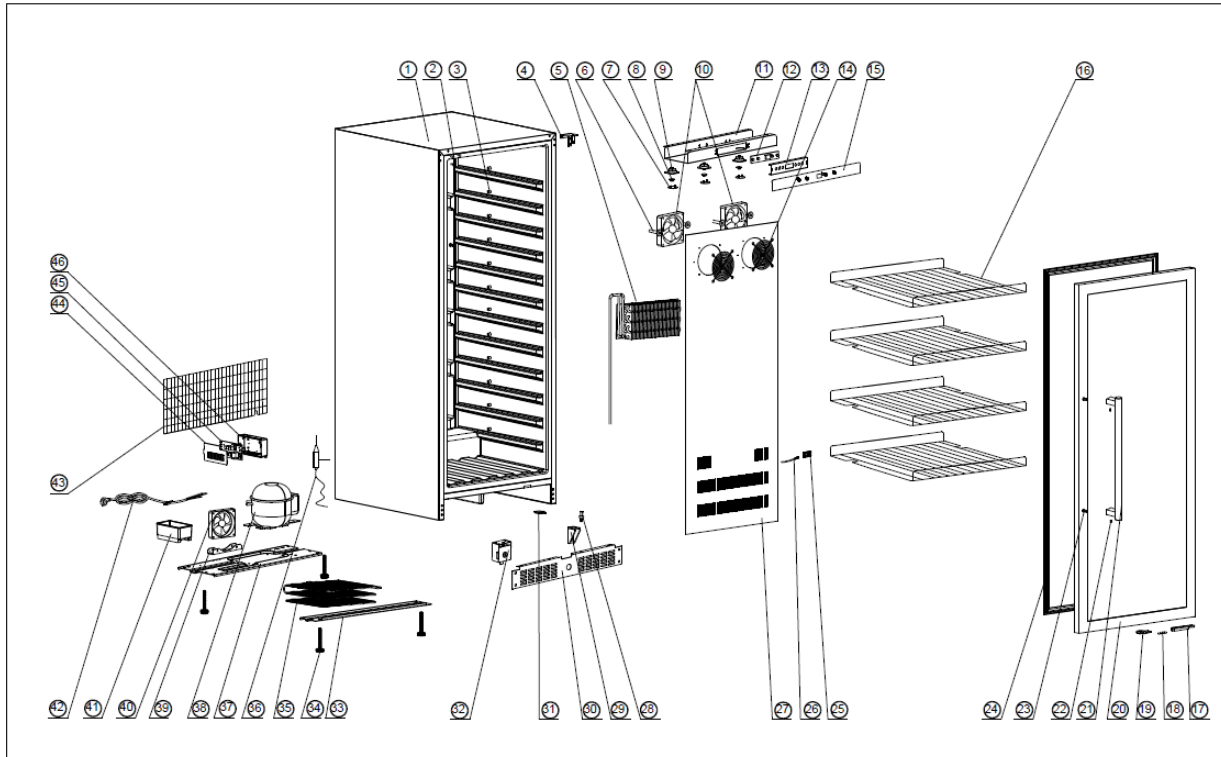
VBR240 Exploded View



No	Part Name	No	Part Name
1	Power Supply Cord	21	Wire Shelf
2	Rear Grill	22	Door Gasket
3	Electrical Box Cover	23	Close Solenoid
4	Power PCB	24	Door
5	Electrical Box	25	Handle
6	Cabinet	26	Grub Screw
7	Decorative Plug	27	Pin
8	Top Hinge	28	Thermistor Supporter
9	Hinge Cover	29	Thermistor 2
10	Door Switch	30	Air Channel Cover
11	Fan Motor	31	Evaporator
12	Plastic Supporter	32	Bottom Hinge
13	Fan Guard	33	Lock Bracket
14	Control PCB	34	Plastic Post
15	PCB Supporter	35	Leveling Leg
16	Control Box	36	Condenser
17	Light Base	37	Filter Dryer
18	LED Light	38	Compressor
19	Light Cover	39	Drip Tray (Condensation Tray)
20	Control Panel Sticker	40	Compressor Base

# VBR440

## VBR440 Exploded View

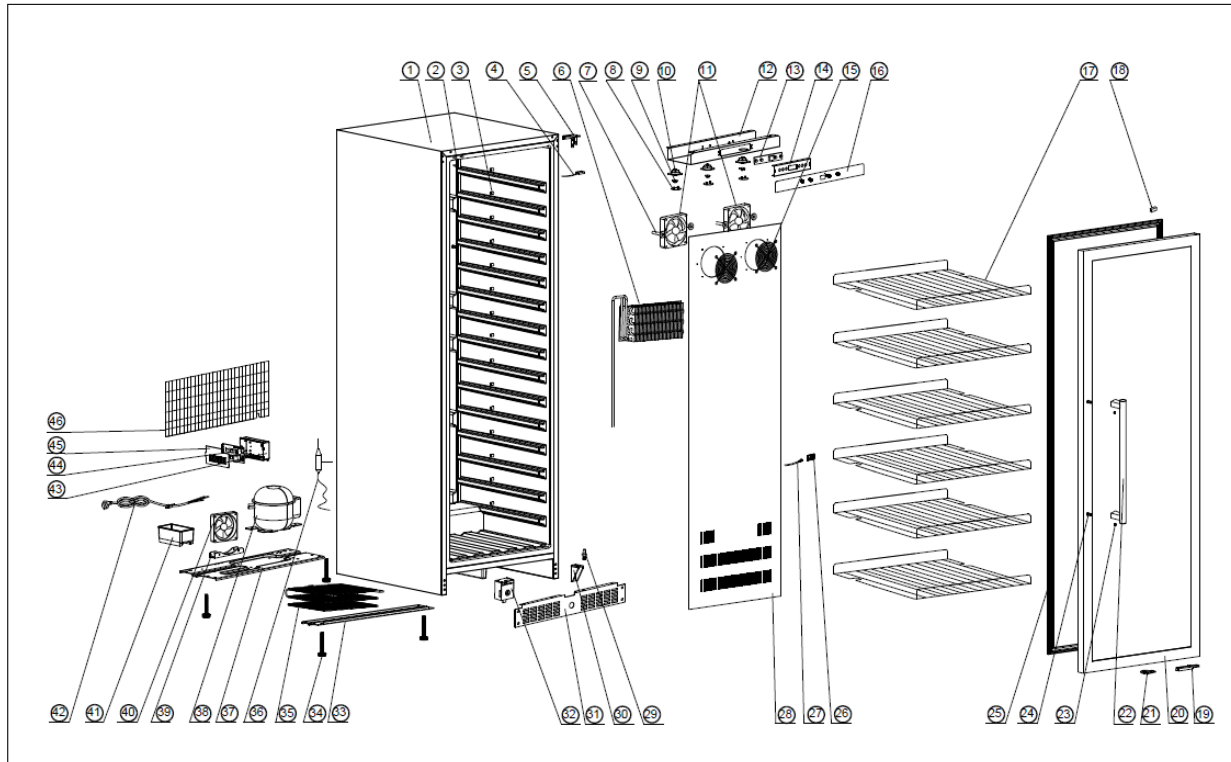


No	Part Name	No	Part Name
1	Cabinet	24	Door Gasket
2	Decorative Plug	25	Thermistor Supporter
3	Plastic Post	26	Thermistor 3
4	Top Hinge	27	Air Channel Cover
5	Evaporator	28	Door Axle
6	Plastic Supporter	29	Bottom Hinge
7	Light Cover	30	Kickplate
8	LED Light	31	Door Switch
9	Light Base	32	Door Lock Assembly
10	Fan Motor	33	Bottom Bracket
11	Control Box	34	Leveling Leg
12	Control PCB	35	Condenser
13	PCB Supporter	36	Filter Dryer
14	Fan Guard	37	Compressor Base
15	Control Panel Sticker	38	Compressor
16	Wire Shelf	39	Fan Supporter
17	Door Adapter (Door Axis)	40	Fan Motor
18	Pushing Bracket	41	Drip Tray (Condensation Tray)
19	Lock Bracket	42	Power Supply Cord
20	Door	43	Rear Grill
21	Handle	44	Electrical Box Cover
22	Grub Screw	45	Power PCB
23	Pin	46	Electrical Box



# VBR440

VBR640 Exploded View



No	Part Name	No	Part Name
1	Cabinet	24	Pin
2	Decorative Plug	25	Door Gasket
3	Plastic Post	26	Thermistor Supporter
4	Door Switch	27	Thermistor
5	Top Hinge	28	Air Channel Cover
6	Evaporator	29	Door Axle
7	Plastic Supporter	30	Bottom Hinge
8	Light Cover	31	Kickplate
9	LED Light	32	Door Lock Assembly
10	Light Base	33	Bottom Bracket
11	Fan Motor	34	Leveling Leg
12	Control Box	35	Condenser
13	Control PCB	36	Filter Dryer
14	PCB Supporter	37	Compressor Base
15	Fan Guard	38	Compressor
16	Control Panel Sticker	39	Fan Supporter
17	Wire Shelf	40	Fan Motor
18	Door Close Solenoid	41	Water Drip Tray (Condensation Tray)
19	Door Adapter (Door Axis)	42	Power Supply Cord
20	Door	43	Electrical Box
21	Lock Bracket	44	Power PCB
22	Handle	45	Electrical Box Cover
23	Grub Screw	46	Rear Grille

# SERVICE PRECAUTIONS FOR R600A SYSTEM

## Features of R600a refrigerant

- Achromatic and odorless gas.
- Flammable gas and the ignition (explosion) at 494°C / 921°F.
- Upper/lower explosion limit: 1.8%~8.4%/Vol.

## Features of an R600a refrigeration unit

- Requires about 60% of the refrigerant required by an R134a system
- The suction pressure is below 1bar (abs) (14.5 PSI) during the operation.
- Any type of dryer is applicable
- The compressor has a label referring to the R600a refrigerant.

# CONTROLS AND ELECTRICAL SYSTEM

## CONTROL FUNCTIONS

### Silent Mode vs Dynamic Mode:

In the Dynamic Climate mode, the interior fan cycles on 20 seconds and off 30 seconds to circulate the inside air evenly even when the set temperature is reached. Dynamic Climate mode is **NOT** the factory preset mode. To change to Dynamic Climate mode, touch and hold the **DOWN** key for approximately five seconds. The beverage fridge will beep five times to confirm Dynamic Climate mode is on. To change back to default (Silent) mode (Also referred to as energy saving mode), touch and hold the **UP** key for approximately five seconds. The beverage fridge will beep three times to confirm default (Silent) mode is on.

### Eco Demo Mode:

By pressing and holding the “**UP**” & “**DOWN**” and “**LIGHT**” keys all at the same time for at least 5 seconds, the indicator light will flash five times to confirm the unit has been put into Eco Demo mode. The indicators for Fahrenheit and Celsius degree will be ON. In Eco Demo mode, the compressor and all fan motors are OFF. **NOTE:** To perform the multi-key function, press and hold the first key, then press the rest key the required number of times and then release all the keys.

### SABBATH Mode:

Sabbath mode is available for the observance of certain religious holidays. This mode turns off the displays, interior light and audible alarms and prevents them from turning on again. Normal cooling operations will still take place. To initiate Sabbath mode, press the **POWER** and **LIGHT** keys at the same time for at least 5 seconds. The indicator light will flash four times and confirm the Sabbath mode is ON. Sabbath mode can be exited by repeating the above process. The Sabbath Mode will automatically exit after 96 hours.

## **ALARM SYSTEM**

### **Temperature Display**

During normal operation, the temperature display on the control panel will show the temperature inside the appliance.

The temperature display will flash if:

- A different temperature is being set
- The temperature deviates by more than 5°C from the set temperature. Note: To view the “set” temperature at any time, touch the “UP” or “DOWN” mark, the “set” temperature will temporarily flash in the LED display for 5 seconds.

If the LED readouts display the icon “--” and flash, that means the display temperature is out of the range from -9 to 37°C for Celsius degree and from 16 to 99°F for Fahrenheit degree. That is normal.

### **Temperature Alarm**

An alarm will sound if the temperature rises or falls outside the temperature range. The temperature display will flash at the same time. The temperature the appliance is set at determines the temperature the appliance recognizes as being too warm or too cool.

The alarm will sound and the temperature display will flash if:

- When there has been a lengthy interruption to the power supply.
- When too many items have been put into the unit at one time.
- When the door is not been closed tightly.

### **Door Alarm**

If the door has been left open for more than 60 seconds, the alarm will sound. After closing the door, once the set temperature has been reached in the appliance, the alarm stops and the temperature display stops flashing. However, if the noise disturbs you, you can switch the alarm off before this if you wish by pressing the POWER key once. The alarm will stop. The temperature display will continue to flash until the set temperature has been reached. The display will then light up constantly, and the alarm system is fully active again.

## OTHER FUNCTIONS

### Temperature Memory Function

In the event of a power interruption (power surge, breaker switch, etc.), the unit will remember the previous temperature settings. When the power is recovered, the unit will operate with the last temperature set-point.

### Interior Light

Touching the LIGHT button toggles between 2 modes of operation for the internal lights: Functional (default) mode and showcase mode. If you are in functional (default) mode, the lights will turn on only when the door is open. If you are in showcase mode, the lights will be on all the time.

### Defrosting

- Defrosting is performed each time the total running time for the compressor reaches 10 hours.
- During the defrosting cycle, the compressor is OFF and the fans operate continuously.
- After 30 minutes, the defrosting cycle is completed
- During the defrosting cycle, the storage temperature may vary by 5 or 6 degrees.
- Frost may accumulate on the evaporator if the unit is repeatedly opened in a high heat or high humidity locations. If this frost pattern does not clear within 24 hours, your unit will require manual defrosting.

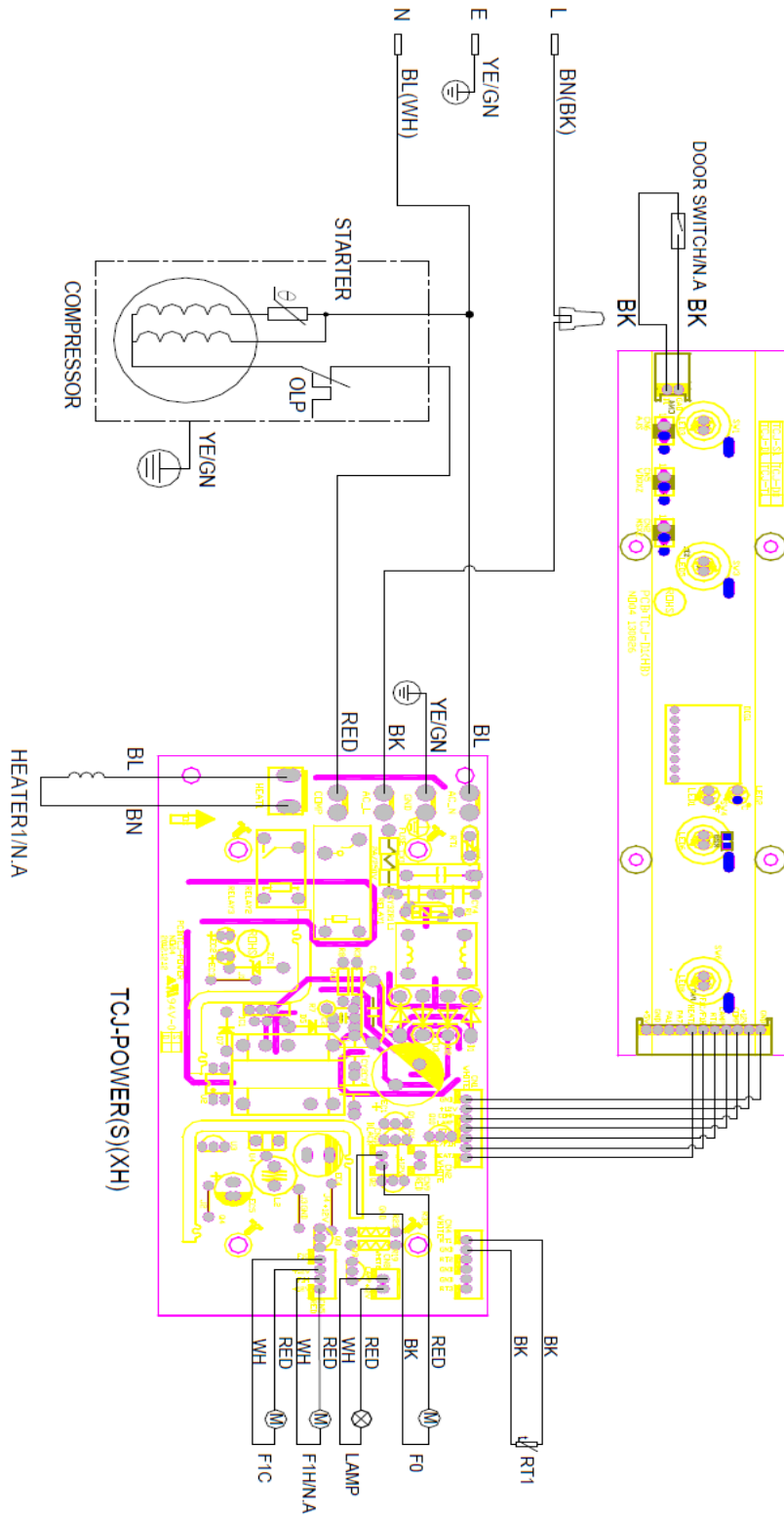
### °F/°C Selector

Select the temperature display setting in Fahrenheit or Celsius degree. To change the temperature from Fahrenheit to Celsius or from Celsius to Fahrenheit, press and hold the LIGHT key for 5 seconds.

## TEST MODE

Press and hold the "LIGHT" and "UP" keys at the same time for 5 seconds with the power ON. The indicator light will flash twice to confirm the input and the unit will run in the TEST MODE. The compressor and all fan motors will operate continuously & independent from the SET temperature. At the same time, the display shows the icon "--". The TEST Mode will automatically exit after 30 minutes or you can stop the TEST mode by disconnecting the unit from power source.

# Wiring Diagram and Schematic



## SENSOR RESISTANCE TABLE

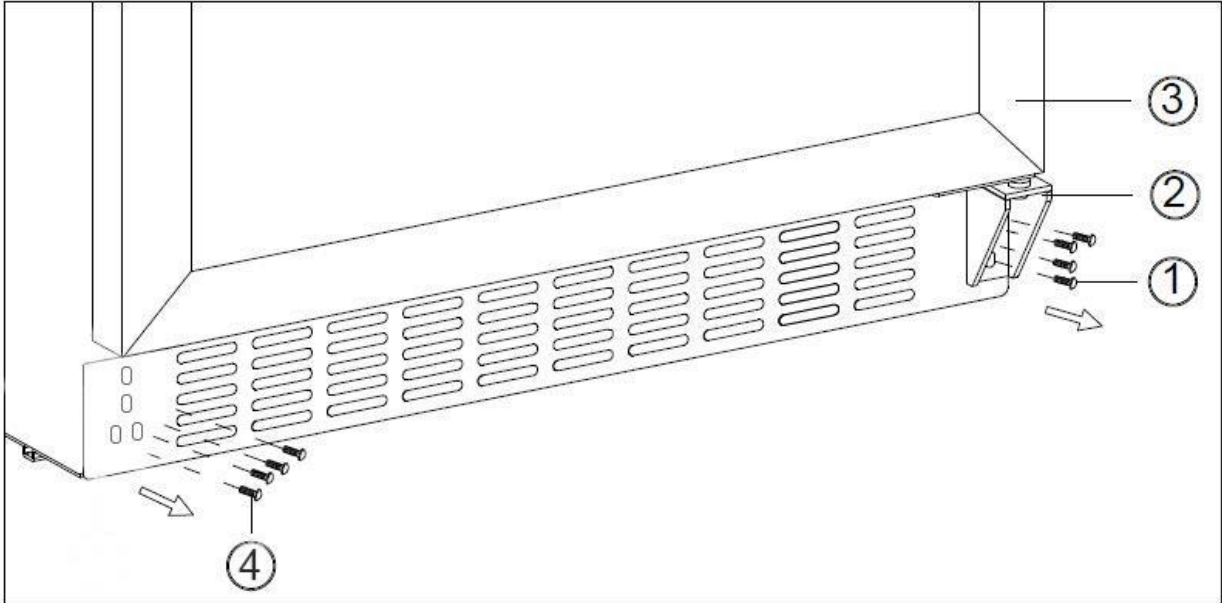
No.	Measured Temperature (C °)	RESISTANCE OF SENSOR (kΩ)
1	-30	116.55
2	-28	104.97
3	-26	94.67
4	-24	85.49
5	-22	77.30
6	--20	69.99
7	-18	63.44
8	-16	57.58
9	-14	53.32
10	-12	47.60
11	-10	43.35
12	-8	39.53
13	-6	36.08
14	-4	32.97
15	-2	30.16
16	0	27.62
17	2	25.32
18	4	23.24
19	6	21.35
20	8	19.63
21	10	18.07
22	12	16.65
23	14	15.35
24	16	14.17
25	18	13.10
26	20	12.11
27	22	11.21
28	24	10.39
29	25	10.00
30	26	9.63
31	28	8.94
32	30	8.30
33	32	7.72
34	34	7.18
35	36	6.69
36	38	6.23
37	40	5.81
38	42	5.42
39	44	5.06
40	46	4.73
41	48	4.43
42	50	4.15

- The tolerance of sensor resistance is  $\pm 5\%$
- Be sure to measure the sensor resistance after keeping the sensor more than 3 minutes at a measuring temperature. (It needs delay due to sensor speed.)

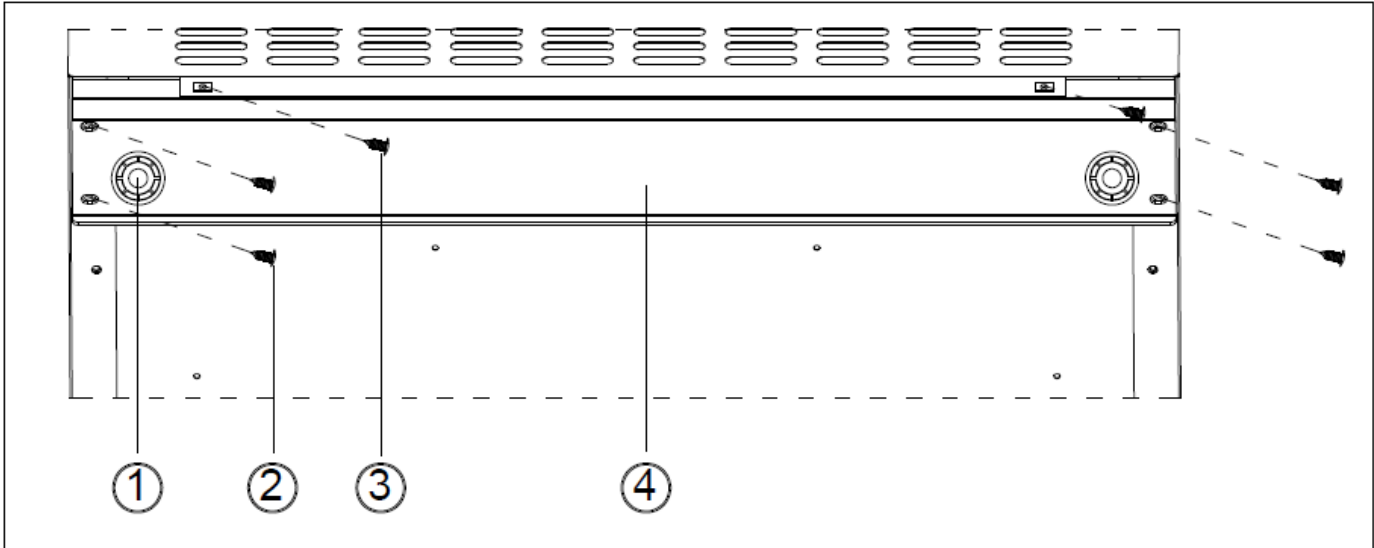
# Parts Replacement Procedures

## Replacing the ventilation grill / lock assembly

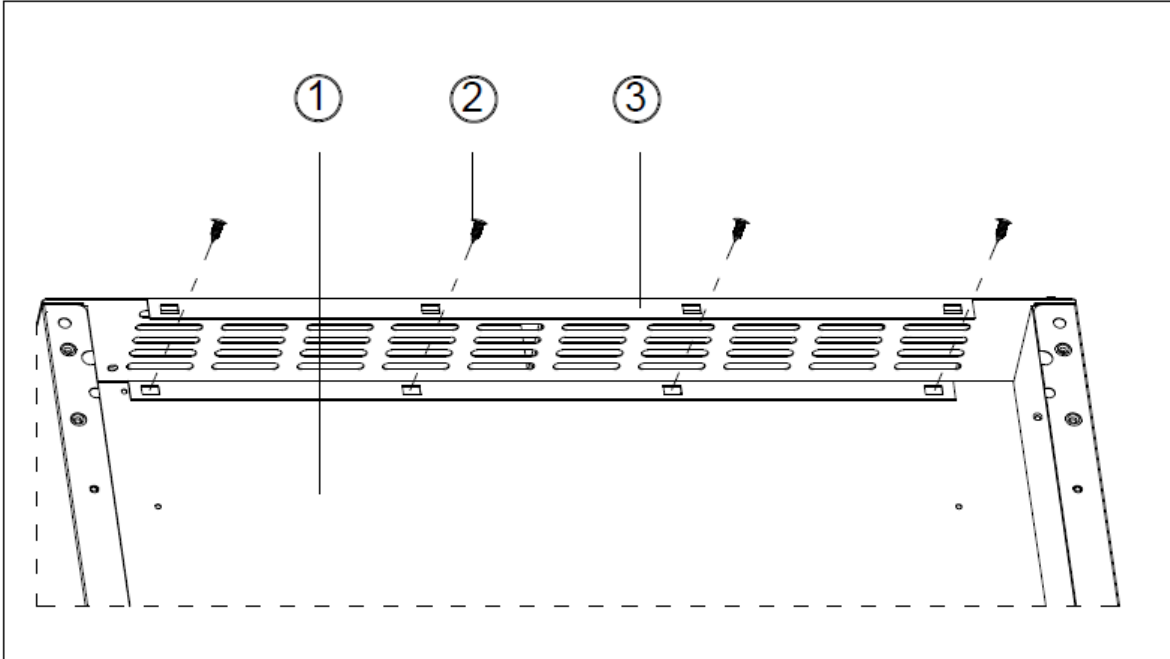
1. With assistance, tilt the unit back and remove screws 1,2, & 4. Be careful to hold the glass door firmly after removing the screws. Pull down to remove the glass door and place it on a padded surface to prevent scratching it.



2. Remove the two screws (3) that secure the ventilation grille to the reinforced bracket. At the same time remove the four bolts (2 and 4) that fix the reinforced bracket to the cabinet.



3. Remove the four screws (2 and 3) that secure the bottom of the grill to the cabinet bottom

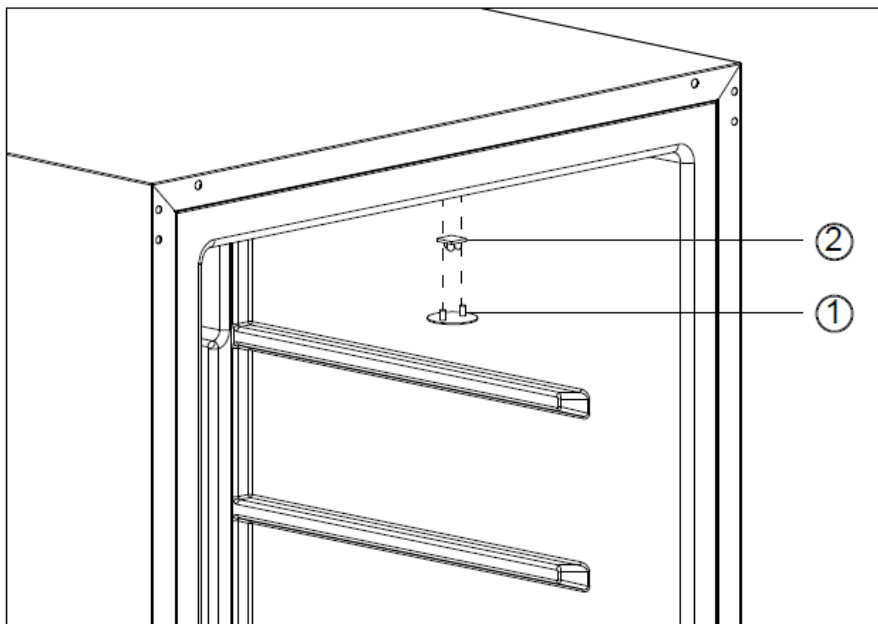


4. Reverse the steps used to remove the ventilation grill when reinstalling the new grill.

## Replacing the LED Light

1. Remove enough shelves to allow you proper workspace
2. Remove the LED light cover with a small screwdriver
3. Pull down to remove the LED light PCB and replace it with a new one

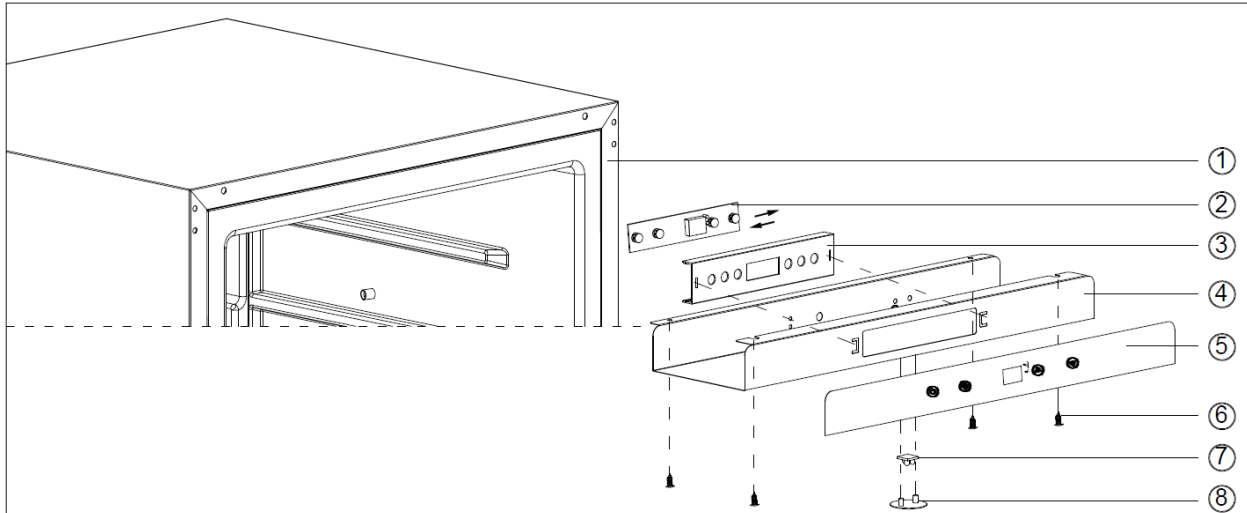
**IMPORTANT: Insert the new LED light PCB with correct polarity**





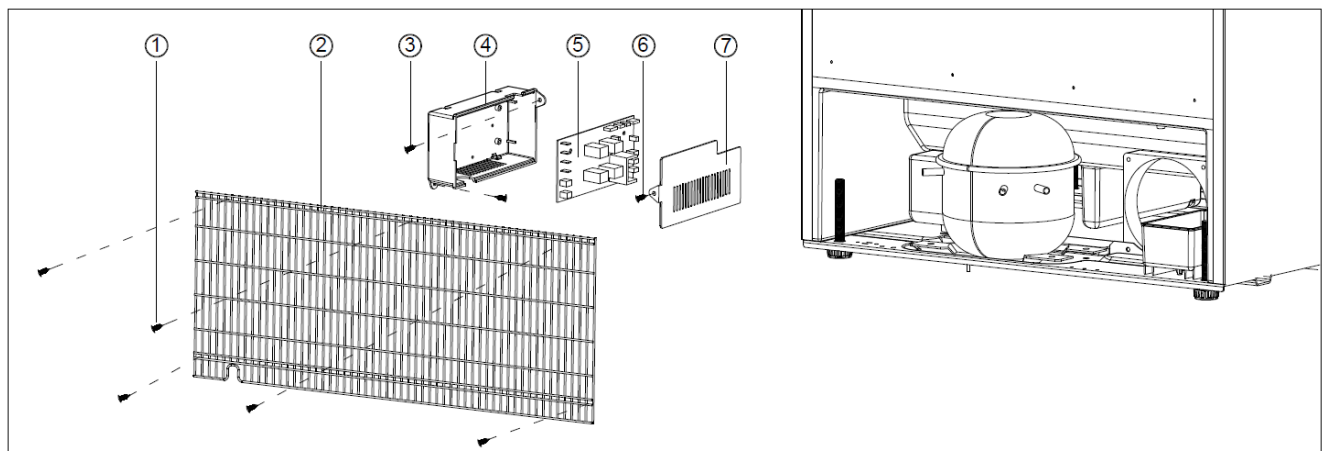
## REPLACING THE CONTROL PCB

1. Remove enough shelves to allow you proper workspace
2. Unscrew the four screws (6) that secure the PCB box (4) to the top of cabinet
3. Pull down to remove the PCB box carefully.
4. Disconnect the cable from the control PCB (2)
5. Dismantle the PCB supporter (3) from the PCB box
6. Carefully remove the control PCB from the PCB supporter.
7. Replace the control PCB.
8. Installation is the reverse of removal



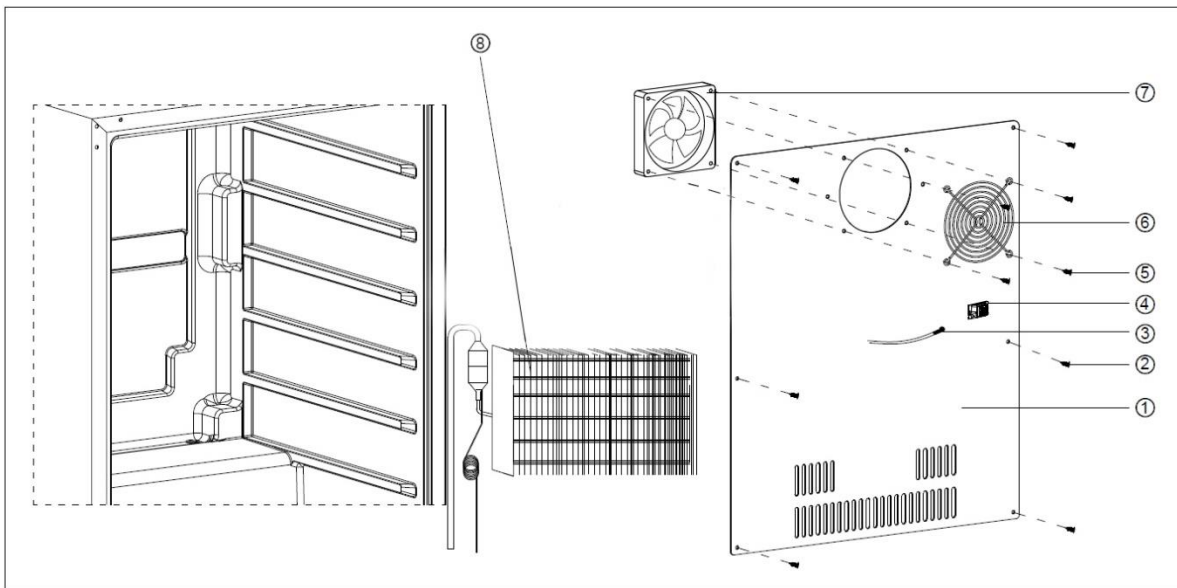
## REPLACING THE POWER PCB

1. Remove the five screws (1) that attach the rear grille to the cabinet.
2. Remove the screws 3 and 6.
3. Pull out the electrical box base (4) & electrical box cover (7) and Power PCB (5).
4. Disconnect the cables from the Power PCB and then you can replace the Power PCB.
5. Installation is reverse of removal



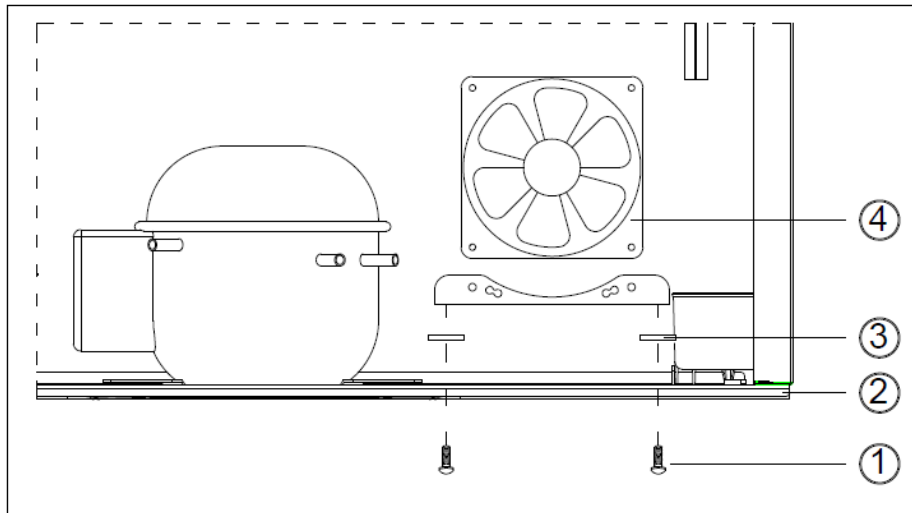
## REPLACING THE EVAPORATOR FAN MOTOR AND TEMPERATURE SENSOR

1. Remove all shelves.
2. Remove the screws (2) that secure the air channel cover (1) to the cabinet.
3. Disconnect the evaporator fan motor wires. Then pull out the air channel cover.
4. Unscrew the thermistor supporter (4)
5. You can now replace the temperature sensor (3)
6. You can see the evaporator (8) which can be replaced
7. To replace the fan, remove the screws (5) that secure the fan motor F1C (7) to the air channel cover and then you can replace the evaporator fan motor.



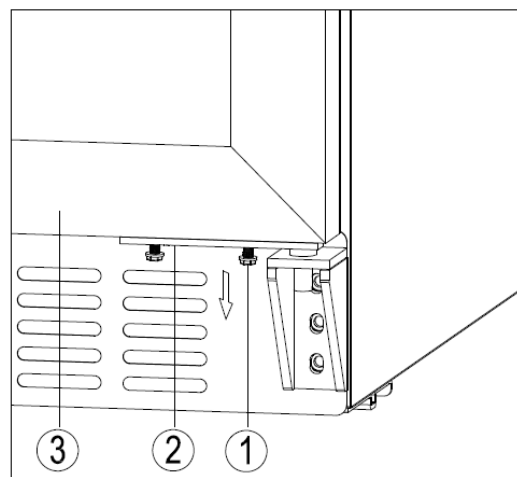
## REPLACING THE CONDENSER FAN MOTOR

1. Remove the decorative grill
2. Disconnect the condenser fan motor lead from the cable or power PCB inside the electrical box.
3. Remove the two screws (1) that mount the fan motor F0 (4) to the compressor base (2)
4. Take out the condenser fan motor and replace it. Make sure to refit the rubber washer (3) in the original position and replace it if it shows signs of aging.



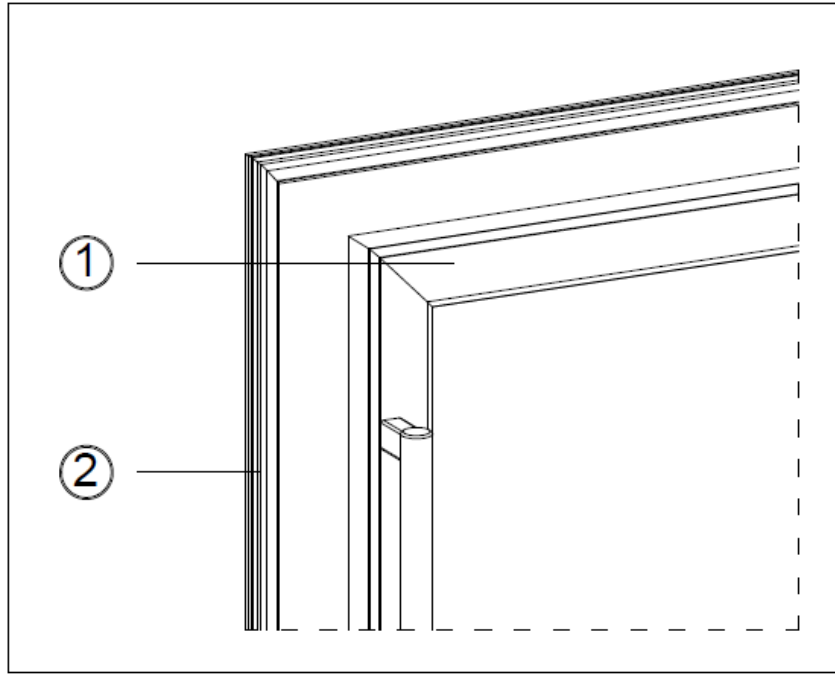
## LEVELING THE DOOR / HINGE ADJUSTMENTS

1. With assistance, tilt the unit back and loosen the screws (1)
2. Adjust the glass door to make the door top is parallel with the cabinet top then tighten the screws.
3. Hinge adjustments are necessary when:
  - a. The door gasket is not sealed sufficiently along the hinge side of the door.
  - b. The door gasket is compressed more than 1/16" (1.5mm) on the hinge side (causing a poor seal elsewhere around the top.)
  - c. The distance between the door and cabinet is greater at the top than at the bottom, or vice versa.



## Replacing the Door Gasket

1. Open the door and detach the old door gasket (2) from the door frame (1).
2. Attach the new door gasket on the door frame being careful not to damage the door and gasket.

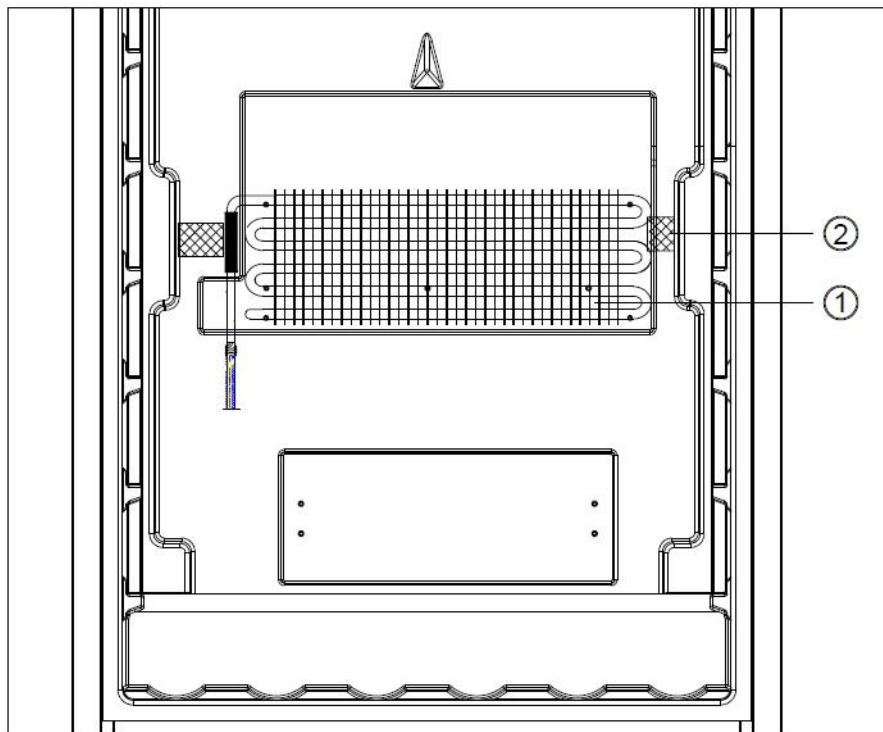


## Replacing the Evaporator Assembly

### IMPORTANT SAFETY NOTE:

Before replacing any component of the refrigeration system, make sure to read the instructions "Service Precautions for R600A System"

1. Disconnect the unit from the power source.
2. Clean and then un-solder the capillary from the filter drier.
3. Clean and then un-solder the suction tube from the compressor.
4. Remove all shelves.
5. Remove the air channel cover only for single zone models.
6. Remove the two brackets to fix the evaporator assembly to the cabinet.
7. Replace the evaporator assembly and install the new one to the cabinet.
8. For an R134a system, make the system flush and replace the filter drier.
9. Clean then connect the suction tube to the compressor. Clean again and connect the capillary to the filter drier.
10. Solder all joints. Silver solder and proper flux should be used on copper to steel or steel to steel joints. Excess flux should be wiped off all tubing.

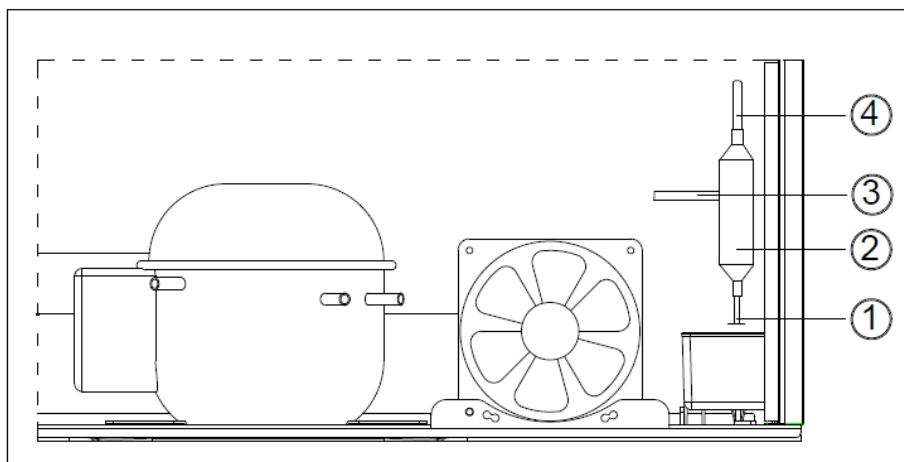


## Replacing the Compressor, Compressor PTC Starter and Overload Protector

1. Disconnect the unit from the source.
2. Locate defective compressor and evacuate the sealed system.
3. Clean and cut the refrigerant lines as close as possible to the compressor stubs, leaving enough length to install the replacement compressor.
4. Disconnect lead wires from compressor terminals.
5. Remove the retaining clips from the compressor mounts. Remove defective compressor from cabinet and install rubber grommets on replacement compressor.
6. Clean the compressor stubs with an abrasive cloth. Do not open the compressor stubs.
7. Install the replacement compressor using the mounting clips previously removed.
8. Connect the compressor leads.
9. Solder a short piece of tubing to the process tube (approximately 150mm / 6 inches long).
10. Connect the refrigerant tubing to the compressor stubs
11. Evacuate, recharge and leak test the system.
12. Test/run the unit to check operation.

## Replacing the Filter Drier

1. Carefully pull the old filter drier (2) and tubing out of the compressor room.
2. Use steel wool or fine emery paper to clean the capillary tube (1) 3 inches (75mm) from the original joint.
3. Also, clean the input tubing (4) (the condenser outlet tube) to the filter drier
4. of 3 inches from the original joint.
5. Use a knife or file to score the capillary tube and the input tubing to the old filter drier 1 inch (25mm) from the original joints. Then break the connections.
6. Use steel wool or fine emery paper to clean both ends of the new filter drier.
7. Make an offset 1/2" (12mm) from the end of the capillary tube to prevent it from penetrating too far into the drier.
8. Connect the capillary tube to the replacement filter drier.
9. Connect hot pipe inlet tube to the replacement filter drier
10. Solder the new filter drier using silver solder with the proper flux at the hot pipe to filter drier joint. Use silfos at the drier to capillary tube joint.

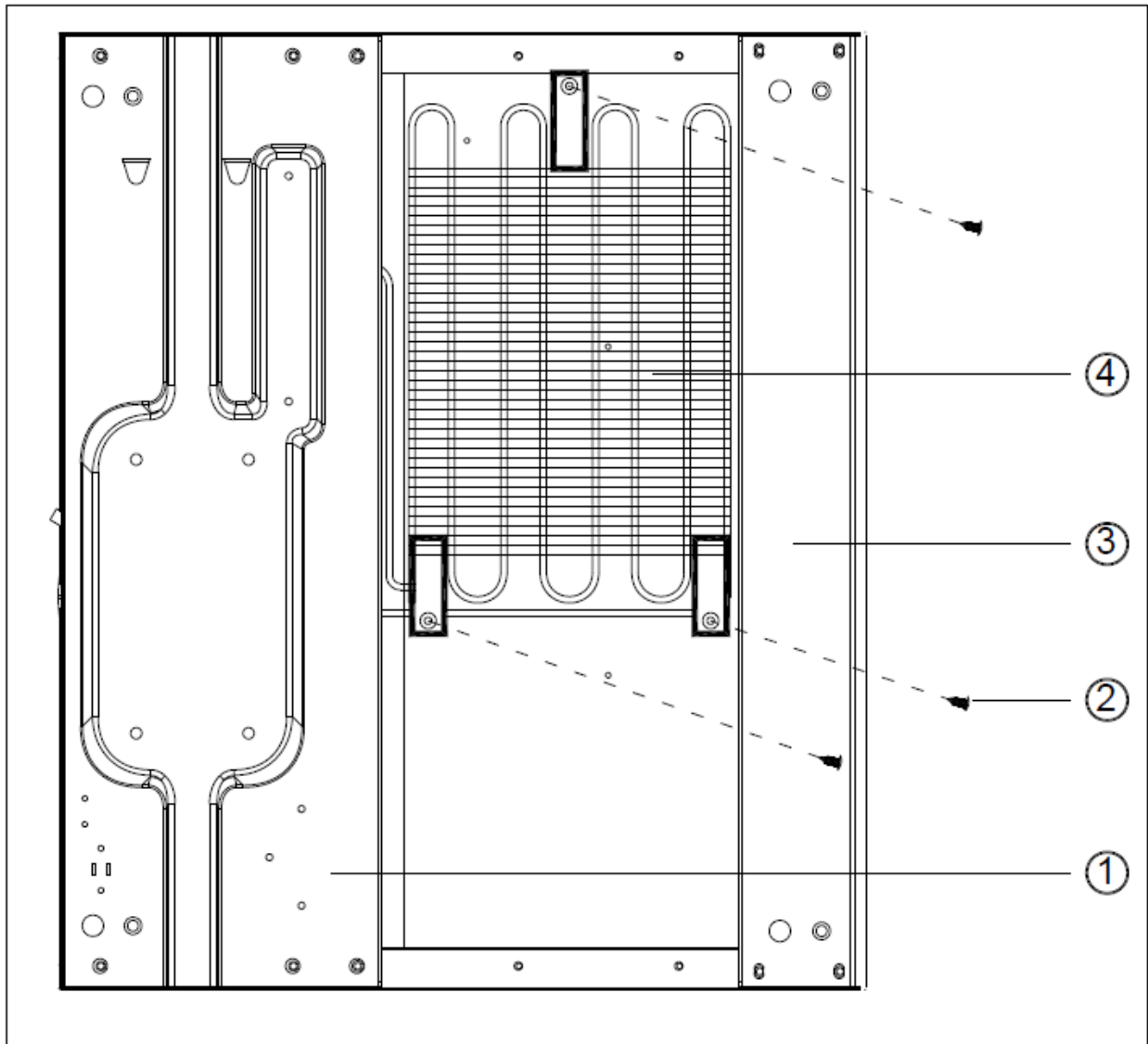


**NOTE:** Replace filter drier each time any component of the refrigeration system is opened or replaced.

## REPLACING THE CONDENSER

**NOTE:** Before replacing any component of the refrigeration system, make sure to read the instructions “Service Precautions for R600A System” or “Service Precautions for R134a System”.

1. Disconnect the unit from the power source.
2. Clean and then solder the inlet and the outlet tube from the old condenser (4)
3. With assistance, tilt the cabinet side and remove the screws (2) that secure the  
1. condenser to the cabinet bottom.
4. Install the new replacement condenser to the cabinet by screws.
5. Clean and connect the hot pipe to the outlet tubing.
6. Clean again and connect the inlet tubing of the condenser to the spiral pipe.
7. Solder all joints. Silver solder and proper flux should be used on copper to steel or steel to steel joints. Excess flux should be wiped off all tubing.



# Troubleshooting

PROBLEM	POSSIBLE CAUSE	REMEDY
Appliance does not operate.	<ul style="list-style-type: none"> <li>• Appliance is not connected to a power supply.</li> <li>• The appliance is turned off.</li> <li>• The circuit breaker tripped or a blown fuse.</li> </ul>	<ul style="list-style-type: none"> <li>• Connect the appliance.</li> <li>• Switch on the appliance.</li> <li>• Switch on circuit breaker or replace fuse.</li> </ul>
Appliance is not cold enough.	<ul style="list-style-type: none"> <li>• The temperature is not set correctly.</li> <li>• The ambient temperature could require a colder temperature setting.</li> <li>• The door was opened too often.</li> <li>• The door was not closed completely.</li> <li>• Door is not hermetically sealed.</li> <li>• The condenser is too dirty.</li> <li>• The ventilation opening is blocked or too dusty</li> </ul>	<ul style="list-style-type: none"> <li>• Check the set temperature.</li> <li>• Set a higher temperature.</li> <li>• Do not open the door more often than necessary.</li> <li>• Close door properly.</li> <li>• Check the door seal and clean or replace.</li> <li>• Clean the condenser when necessary.</li> <li>• Clear the obstructions and clean the dust.</li> </ul>
Appliance turns itself on and off frequently.	<ul style="list-style-type: none"> <li>• The room temperature is higher than average.</li> <li>• A large number of bottles has been added to the unit.</li> <li>• The door is open too often.</li> <li>• The door is not closed completely.</li> <li>• The door gasket does not seal properly.</li> </ul>	<ul style="list-style-type: none"> <li>• Put the appliance in a cooler place.</li> <li>• Leave the appliance to work for a while until the set temperature has been reached.</li> <li>• Do not open the door more often than necessary.</li> <li>• Close door properly.</li> <li>• Check the door seal and clean or replace.</li> </ul>
The light does not work.	<ul style="list-style-type: none"> <li>• Appliance is not connected to a power supply.</li> <li>• The circuit breaker tripped or a blown fuse.</li> <li>• The light was switched off on the control panel.</li> </ul>	<ul style="list-style-type: none"> <li>• Connect the appliance.</li> <li>• Switch on circuit breaker or replace fuse.</li> <li>• Switch on the light.</li> </ul>
Vibrations.	<ul style="list-style-type: none"> <li>• The appliance is not properly level.</li> </ul>	<ul style="list-style-type: none"> <li>• Level the appliance with the adjustable feet.</li> </ul>
The appliance seems to make too much noise.	<ul style="list-style-type: none"> <li>• The rattling noise may come from the flow of the refrigerant, which is normal. As each cycle ends, you may hear gurgling sounds caused by the flow of refrigerant in your appliance. If temperature fluctuations occur, the contraction and expansion of the inner walls may cause popping and cracking noises.</li> <li>• The appliance is not properly level.</li> </ul>	<ul style="list-style-type: none"> <li>• Level the appliance with the adjustable feet.</li> </ul>



PROBLEM	POSSIBLE CAUSE	REMEDY
The door will not close properly.	<ul style="list-style-type: none"> <li>• The appliance is not properly level.</li> <li>• The door was reversed and not properly installed.</li> <li>• The gasket is dirty.</li> <li>• The shelves are out of position.</li> </ul>	<ul style="list-style-type: none"> <li>• Level the appliance with the adjustable feet.</li> <li>• Check the door hinge and reassemble correctly.</li> <li>• Clean the door gasket.</li> <li>• Check the shelves and refit correctly.</li> </ul>
Display shows an error code	<ul style="list-style-type: none"> <li>• "E1" indicates that the air temperature sensor is open circuit.</li> <li>• "E2" indicates that the air temperature sensor is short circuit.</li> <li>• "E3" indicates that the defrost sensor in the evaporator is short circuit.</li> <li>• "E4" indicates that the defrost sensor in the evaporator is open circuit.</li> <li>• "E6" indicates a solenoid valve failure.</li> <li>• "E7" indicates a door switch failure.</li> </ul>	<ul style="list-style-type: none"> <li>• Call for service.</li> </ul>
The alarm sounds and the temperature display flashes.	<p>Has the appliance door been open for longer than 60 seconds? If not, then the temperature has risen higher or fallen lower than the temperature that has been set. This could be due to:</p> <ul style="list-style-type: none"> <li>• The appliance door being opened too often.</li> <li>• The ventilation opening being covered or too dusty.</li> <li>• A lengthy interruption to the power supply. large number of bottles has been added to the unit.</li> </ul>	<ul style="list-style-type: none"> <li>• If yes, close the door.</li> <li>• Do not open the door more often than necessary.</li> <li>• Clear the obstructions and clean the dust.</li> <li>• Leave the appliance to work for a while until the set temperature has been reached.</li> </ul>
The icon "--" is lit up and flashing in the temperature display	<ul style="list-style-type: none"> <li>• The display temperature is out of the range.</li> </ul>	<ul style="list-style-type: none"> <li>• Only temperatures within the range 0~99°F/-9~37°C the appliance can display will be shown. If the temperature is not within this range, the icon "--" will be displayed instead. That is normal.</li> </ul>

DATE	REVISION NOTES
4/22/2019	INITIAL DOCUMENT
6/04/2019	FORMAT ADJUSTEMENT