

Using the Control Panel




1. Freezer temperature setting.
2. Super Freeze mode indicator
3. Fridge temperature setting
4. Super Cooling mode indicator
5. Holiday mode indicator
6. Eco mode indicator
7. Alarm indicator
8. Child Lock mode indicator
9. Screen selector
10. Decrease value
11. Increase value
12. Mode Selector
13. Child Lock Selector

Super Freeze Mode

Purpose

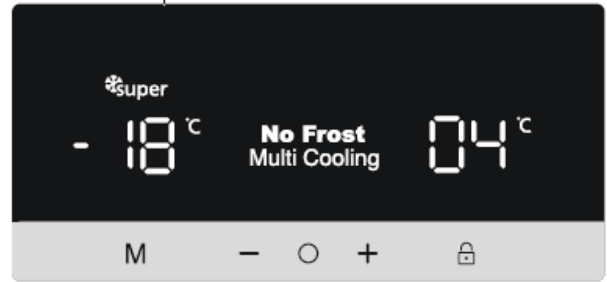
- To freeze a large quantity of food that cannot fit on the fast freeze shelf.
- To freeze prepared foods.
- To freeze fresh food quickly to retain freshness.

How to use

- Press  icon, until the 'Freezer temperature setting' is selected (#1).
- Once Freezer temperature setting is selected, the temperature will flash.
- Press the  icon repeatedly until the 'Super Freeze logo appears'  in the top left corner.
- Once the Super Freeze mode has been set, the machine will beep to confirm the mode has been switched on.
- After the beep the original temperature of the freezer will appear on screen.
- Mode can be cancelled by repeating the above instructions from the beginning.

During this mode:

- Temperature of the fridge compartment may be adjusted, this will not impact Super Freeze Mode.
- Economy and holiday mode cannot be selected whilst Super Freeze is active.






Super Cool Mode

Purpose

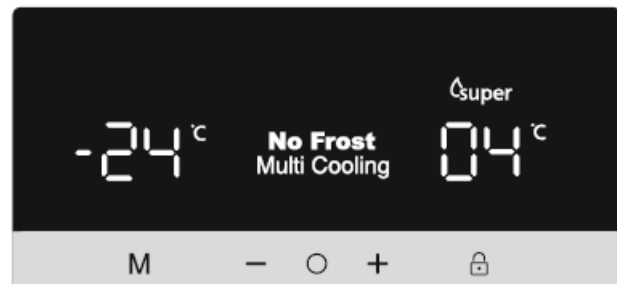
- To cool and store a large quantity of food in the fridge compartment.
- To quickly cool drinks.



How to use

- Press  icon, until the 'Fridge temperature setting' is selected (#1).
- Once fridge temperature setting is selected, the temperature will flash.
- Press the  icon repeatedly until the 'Super Cool logo appears' in the top right corner (#4) .
- Once the Super Cool mode has been set, the machine will beep to confirm the mode has been switched on.
- After the beep the last temperature of the fridge will appear on screen.
- Mode can be cancelled by repeating the above instructions from the beginning.

During this mode:

- Temperature of the freezer compartment may be adjusted, this will not impact Super Cool Mode.
- Economy and holiday mode cannot be selected whilst Super Cool is active.

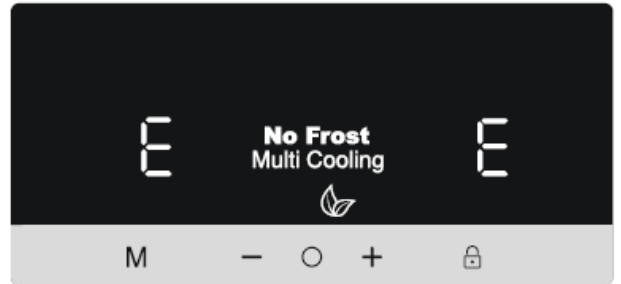


	620 – ARES DISPLAY	
	Display and control panel	


Economy Mode

Purpose

Energy savings. During periods of less frequent use (door opening) or absence from home, such as a holiday, Eco program can provide optimum temperature whilst saving power.



How to Use

- Press **M** icon, until the 'Eco Mode' icon  appears.
- Once the 'Eco mode' has been set, the machine will beep to confirm the mode has been switched on.
- After the beep the both the fridge and freezer temperature setting (#1 and #3) will display an 'E'.
- Eco Mode can be cancelled by pressing the **M** icon (#12).

During this mode:


- The freezer and fridge temperature may be adjusted however the adjustment will not be made until Eco Mode is cancelled. When economy mode is cancelled, the selected setting values will be activated and the temperature(s) will be adjusted.
- Super Cool or Super Freeze mode can be selected, however by selecting either modes Eco Mode is cancelled immediately.
- Holiday mode can only be selected after cancelling the economy mode.

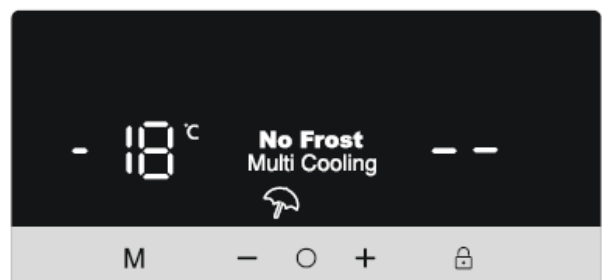
Holiday Mode

Purpose

Holiday mode is to be used if the device is to be left for an extended period.

How to Use

- Press **M** icon, until the 'Holiday Mode' icon  appears (#5).
- Once the 'Holiday mode' has been set, the machine will beep to confirm the mode has been switched on.
- After the beep the fridge will display '--' and the freezer will display the -18 C set temperature.
- Holiday Mode can be cancelled by pressing the **M** icon (#12).



During this mode:

- Freezer and fridge temperature may be adjusted however the adjustment will not be made until Holiday Mode is cancelled. When Holiday mode is cancelled, the selected setting values will be activated and the temperature(s) will be adjusted.
- Super Cool or Super Freeze mode can be selected, however by selecting either modes Holiday Mode is cancelled immediately.
- Eco Mode can only be selected after Holiday mode has been cancelled.x»

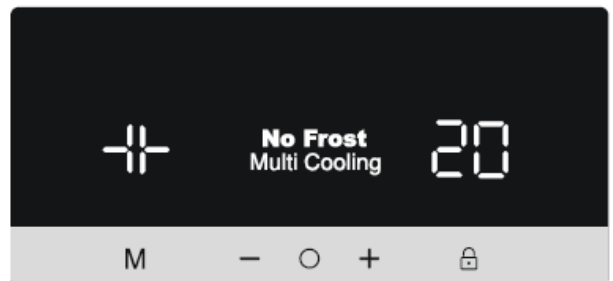
Drink Cool Mode

Purpose

This mode is used to cool drinks within an adjustable time frame.

How to Use

- Press **M** icon and **○** icons simultaneously for five seconds.
- The cooler temperature set indicator will start showing '05'. This value will flash on screen
- Users can either press **-** or **+** buttons to adjust the time period (05, 10, 15, 20, 25 or 30 minutes)
- When you select the time the numbers will blink 3 times on screen and sound beep beep. If the user do not press any button within 2 seconds the time will be set.
- The machine will then set the time, the remaining time will be shown on screen
- Once the total time has elapsed, an alarm will sound
- Cool Drink Mode can be cancelled by following pressing the **M** icon and **○** icons simultaneously for five seconds.



During this mode:

- When drink cool and child lock modes are active, the child lock mode must be cancelled in order to stop the alarm sound
- While using this mode, you must regularly check the temperature of the bottles. When the bottles are cool enough, you must take them out of the appliance.
- Bottles can explode if left in the appliance for too long with drink cool mode active.

Screen Saver Mode

Purpose

This mode saves energy by switching off all control panel lighting when the panel is left inactive.

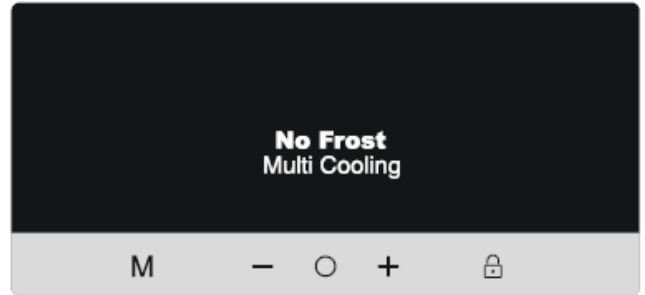
How to Use

- Screen saver mode will be activated automatically after 30 seconds.

- If you press any key while the lighting of the control panel is off, the current machine settings will reappear on the display to let you make any change you wish.
- If you do not cancel the screen saving mode or press any key for 30 seconds, control panel will remain off.

To deactivate the screen saving mode,

- To cancel the screen saving mode, first of all, you need to press any key to activate the keys and then press and hold the Mode button **M** for 3 seconds.
- To reactivate screen saving mode, press and hold the mode button **M** for 3 seconds.




The Child Lock Function

Purpose

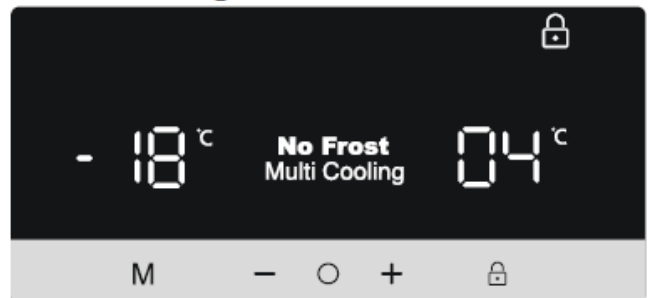
Child lock can be activated to prevent any accidental or unintentional changes being made to the appliance settings.

Activating Child Lock

Press and hold child lock button  for 5 seconds.

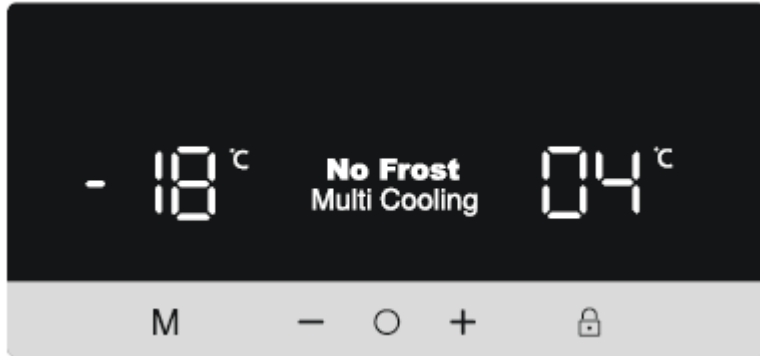
Cancelling Child Lock

Press and child lock button  for 5 seconds.






Door Open Alarm Function




If fridge door is opened more than 2 minutes, appliance sounds 'beep beep'.



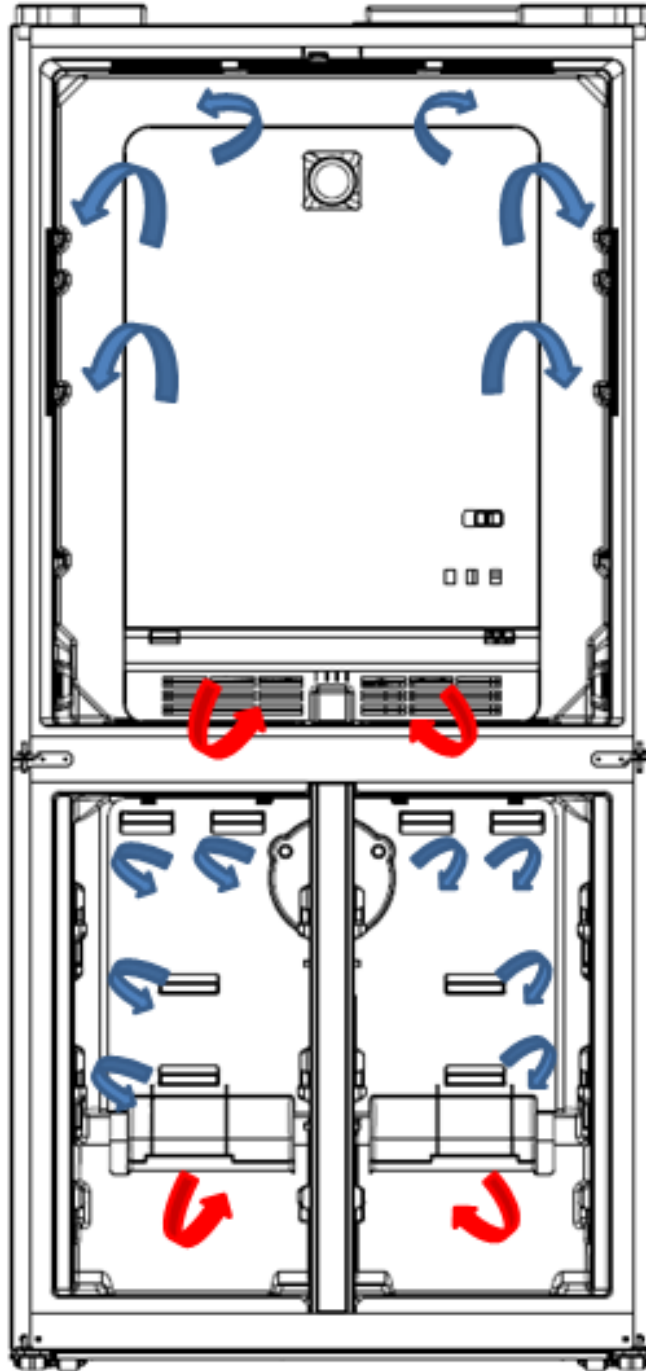
Freezer Temperature Settings



- Press  icon, until the 'Freezer temperature setting' is selected (#1).
- Once Freezer temperature setting is selected, the temperature will flash.
- Users can then use the up or down arrow ( / ) to set the temperature (-16,- 17, -18,-19, -20,-21, -22, -23, -24 °C and Super Freeze Mode).
- If Super Freeze mode or Eco mode is activated, the temperature will not change until the mode is cancelled.

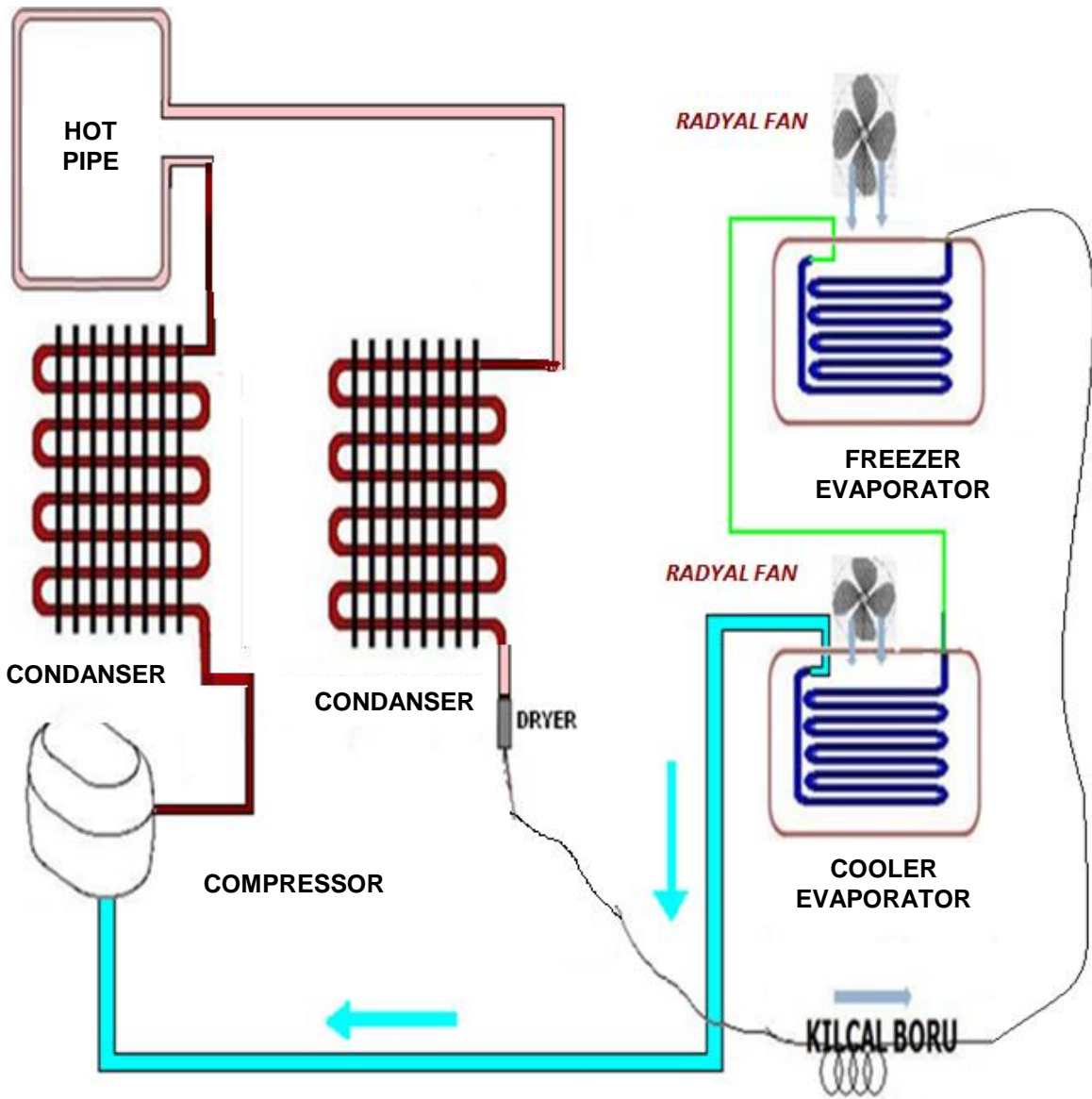
Cooler Temperature Settings

- Press  icon until the 'Fridge temperature setting' is selected (#1).
- Once Fridge temperature setting is selected, the temperature will flash.
- Users can then use the up or down arrow ( / ) to set the temperature (8, 6, 5, 4,3, 2,1 °C and Super Cool Mode).
- If Super Freeze mode or Eco mode is activated, the temperature will not change until the mode is cancelled

Flow of Air



-  Blue arrow → Blow cold air
-  Red arrow → Returning hot air



Resistance Values According To The Temperature Sensor (°C/Ohm Rates)

(For The Freezer Defrost and The Cooler Ambient Sensor)

45 °C/1kΩ	-1 °C/6.2kΩ
35 °C/1.5kΩ	-3 °C/6.8kΩ
30 °C/1.8kΩ	-5 °C/7.5kΩ
25 °C/2.2kΩ	-7 °C/8.2kΩ
19 °C/2.7kΩ	-12 °C/10kΩ
14 °C/3.3kΩ	-15 °C/12kΩ
10 °C/3.9kΩ	-20 °C/15kΩ
5.5 °C/4.7kΩ	-24 °C/18kΩ
1.5 °C/5.6kΩ	-31.5 °C/27kΩ
0 °C/6kΩ	-35.5 °C/33kΩ

Sensor Resistance Values According To The Temperature (°C/Ohm Rates)

(For The Cooler Defrost Sensor)

45 °C/2.15kΩ	-1 °C/17.1kΩ
35 °C/3.26kΩ	-3 °C/19kΩ
30 °C/4.02k9Ω	-5 °C/21.1kΩ
25 °C/5kΩ	-7 °C/23.5kΩ
19 °C/6.53kΩ	-12 °C/30.8kΩ
14 °C/8.23kΩ	-15 °C/36.5kΩ
10 °C/9.95kΩ	-20 °C/48.6kΩ
5.5 °C/12.3kΩ	-24 °C/61.5kΩ
1.5 °C/15kΩ	-31.5 °C/98kΩ
0 °C/16.3kΩ	-35.5 °C/12.6kΩ

When the refrigerator works on first time;

If the cooler compartment defrost sensor and the freezer compartment defrost sensor are hotter than -5°C , the test system works automatically. These below components are tested automatically every 5 seconds.

- ❖ The defrost resistance starts and stops after 10 seconds.
- ❖ The balance resistance starts and stops after 10 seconds.
- ❖ The cooler fan starts and stops after 10 seconds.
- ❖ The freezer fan starts and stops after 5 seconds.
- ❖ The back fan starts and stops after 10 seconds.
- ❖ The ionizer starts and stops after 10 seconds.
- ❖ The trizbar resistance starts and stops after 10 seconds.
- ❖ The compressor starts and stops after 10 seconds.

After these steps, the system waits 5 minutes and then it will switch normal mod.

Freezer Defrost Program

- According to the conditions of usage, the defrost might be activated after the min compressor running time; 16 hours or max total time; 48 hours. Below matters are also effected;
- Consisted ice amount,
- Door open-close,
- Sudden usage variance,
- Cooler sudden temperature rise,

Cooler Defrost Program

The cooler defrost and the freezer defrost are operated parallel except those below. If the cooler defrost sensor does not feel 5°C three times during a particular period of time.

- Defrost will be activated after the refrigerator works max 9 hours. According to the conditions of usage, the defrost might be activated (due to mentioned those below) after the compressor works min 5 hours.
- Consisted ice amount,
- Door open-close,
- Sudden usage variance,
- Cooler sudden temperature rise,

Freezer Defrosting Time

The Defrost is disabled when the defrost sensor temperature feels 8°C . If defrost time passes 37 minutes, defrost completing temperature will be rise to 15°C .

Cooler Defrosting Time

The cooler defrost and the freezer defrost are operated parallel except those below. The cooler defrost will not work if the freezer defrost stops.

The defrost process stops when the defrost sensor temperature feels 7°C. At the low ambient temperature or when the compressor stops; to balance, defrost stops when the defrost sensor temperature feels 15°C. But if the defrost time or the compressor stopping time goes over 6 hours, the resistance will be stopped.

Compressor delay: First, the defrost process ends, the system waits 5 minutes, just after that the compressor is active.

In Case of Power Cut

- All regulated parameters and functions are kept in memory when the power cut.
- When the electricity comes, if the defrost sensor temperature is lower than -5 °C the compressor works 5 minutes later. If it is higher than -5 °C.

Other Features

Warnings : The door open warning is active 2 minutes later and it alarms.

Gasket : It is possible to change the gasket.

Probable Faults

Unsufficient cooling	Is the appliance too close to wall or heat sources (stove, central heating, oven, cooker etc.)?	It should be placed min 50cm distance from heat sources and min 5 cm from electrical ovens.
	Is the ambient temperature high?	Raise the thermostat value.
	Check whether putting the hot foods in the refrigerator?	Put the foods after get cold.
	Is there any gas leakage in refrigerant system?	Check all welding points in the system.
The foods in the cooler compartment are freezing.	Were the foods placed close to cooling air outlet?	Please do not block air outlets
	Is the cooler thermostat value high ? Is there any hot foods close to the cooler sensor?	Decrease the cooler thermostat value and do not put hot things close to the sensor.
Are there any sweating or icing?	Were the liquid foods in the closed containers?	Put the liquid foods into the closed containers.
	Were the hot foods put into the refrigerator?	Put it into after getting cold.
	Was the refrigerator door opened?	Do not leave the refrigerator door open and do not often open or close.
Abnormal Noise	Is the appliance on the flat surface?	The floor should be straight and balance the refrigerator with the help of the adjustable feet.
	Is the compressor feet loose	Fix it.
	Is the condenser or fan stationary normal?	Fix it.
	Do the capillary tube or all other tubes touch any where?	Fix it.



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SERVICE MODE

Push freezer temperature button continuously. During this time, open and close the cooler or freezer door for least 3 times. The appliance will enter service mode 3 sec. late.

- If there is a faulty situation, error code will be observed on screen. Otherwise nothing will be on the screen.
- Buzzer will sound beep for 0.1 sec. each 5 sec. during service mode.
- Child lock icon will blink
- Service function could be activated by pushing «Mode» button

SERVICE FUNCTIONO	
	While display is on service mode, it could be changed among service functions by touching mode icon
TOUCHING M (MODE) BUTTON ONE TIME.	STARTING MODE
	Eco icon blinks
	The number of components which is controlled is shown at freezer segments of display Eco icon goes off when the starting test finishes and then display returns to initial service mode.
TOUCHING M (MODE) BUTTON TWO TIMES.	MANUAL DEFROST
	Holiday icon blinks
	Defrost might be finished manually or automatically.
	Defrost might be finished manually by using the screen select button. Holiday icon goes off and display returns to initial service mode.
	Automatic defrost operates according to the standard defrost time. Holiday icon goes off when he when the manual defrost ends and display returns to initial service mode.
TOUCHING M (MODE) BUTTON THREE TIMES.	DAMPER MOTOR CONTROL MODE (this is a general function for other models which have damper)
	SC icons blink.
	There is no function due to not having damper component in the product Unless touch anything on the screen for 5 minutes, this function will be finished.
	SC icons goes off and display returns to initial service mode.
TOUCHING M (MODE) BUTTON FOUR TIMES.	CURRENT TEMPERATURE VALUES INDICATOR
	Sf icons blink.
	Current temp. Value of freezer set sensor is shown on cooler set segment. Freezer set segment shows "1"
	After touching child lock button one time, current temp. Value of cooler sensor is shown on cooler set segment. Freezer set segment shows «2"
	After touching freezer set icon one more time, current temp. Value of defrost sensor is shown on cooler set segment. Freezer set segment shows «3"
	After touching child lock button one more time, Constant value is shown on cooler set segment due to not being an ambient sensor in the appliance. Freezer set segment shows «4" (this is a general function for other models which have ambient sensor)
	After touching child lock button one more time, current temp. Value of cooler serpentine sensor is shown on cooler set segment. Freezer set segment shows «5"
	Unless touch child lock button for 5 minutes, function will be finished automatically.
	Touching screen select button, function will be finished manually.
	Sf icon goes off and display returns to initial service mode.
TOUCHING M (MODE) BUTTON FIVE TIMES.	DOOR SWITCH CONTROL
	No icons at display
	Cooler set segment gives information about cooler door Mode just could be deactivated by cooler set button.



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User and Service Mode Error Message

**Error codes can appear in normal use and they will be on a screen for 10 seconds. SR (Symbol blinks. No alarm sounds).

SENSOR	TEMPERATURE	USER MODE REACTION	SERVICE MODE REACTION
(1) Freezer	> +50 °C or <-50 °C (sensor is short or open)	Display E 01	Display E 01
(2) Refrigerator		Display E 02	Display E 02
(3) Defrost		Display E 03	Display E 03
4) Serpantin		In normal mode, Serpantin sensor defect will not be shown.	Display E 05

Component defect on display

DEFECT TYPE	DETAILS	USER MODE REACTION	SERVICE MODE REACTION
Compressor Defect	Defrost sensor temp > -10°C (D sensor temp.unchanges for 10 min.continuous compressor run)	Display E 06	Display E 06
Defrost Heater Defect	Defrost sensor < 0°C	Display E 07	Display E 07



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User and Service Mode Error Message

Low voltage error on display

DEFECT TYPE	DETAILS	USER MODE REACTION	SERVICE MODE REACTION
Low voltage	Power supply < 170	Display E 08	Display E 08

Cooling error on display

Note: To prevent the wrong alarms, this alarm status is disabled on following conditions:

- During the first 6 hours after the product was firstly connected.
- During the defrost period
- During the first two hours after a defrost
- During the first 2 hours that one of the doors was open.

DEFECT TYPE	DETAILS	USER MODE REACTION	SERVICE MODE REACTION
Freezer sensor > -10°C	Freezer compartment is not cool enough	Display E 09	Display E 09
Ref. sensor > +10°C and if Holiday mode is not active	Refrigerator compartment is warm	Display E 10	Display E 10
Ref. sensor < -5°C	Refrigerator compartment is so cool	Display E 11	Display E 11
F sensor > -10°C and R sensor >15°C and if Holiday mode is not active	Freezer and Refrigerator compartment both are not cool enough	Display E 09 ,E 10	Display E 09 ,E 10

Replacement of Upper Doors

1. Unscrew the screws fixing the left and right top hinge cover. Remove the hinge covers.



2. Disconnect the socket connections.



3. Unscrew the screws fixing the top hinges and remove it.



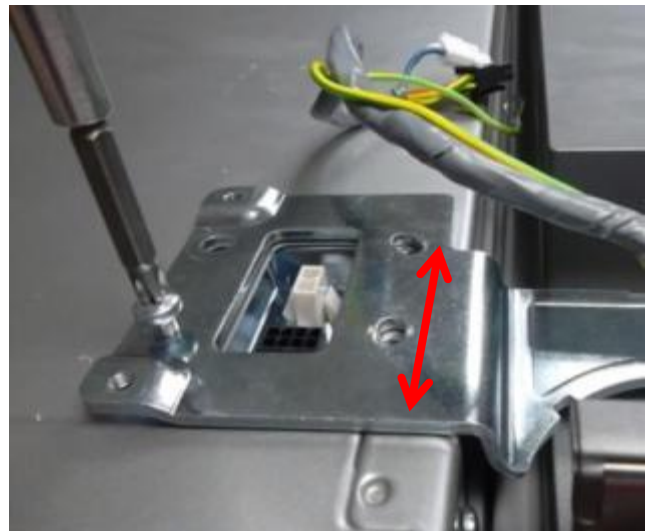
4. Remove the refrigerator doors by lifting them up.



Note-1: To re –assembly the doors basically repeat the previous steps backwards.

Note-2: After installing the upper doors , carefully connect the sockets around hinge area.

Note-3: Three out of Four screw sockets are slotted to let door adjustment.

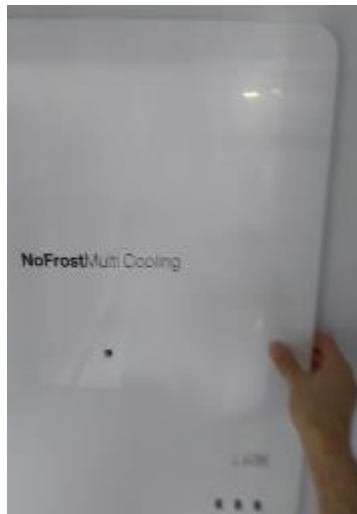


Removing The Cooler Multi Flow Fan Motor

- 1- First remove the glass shelves and crispers.
- 2- Unscrew the crisper rails screws.

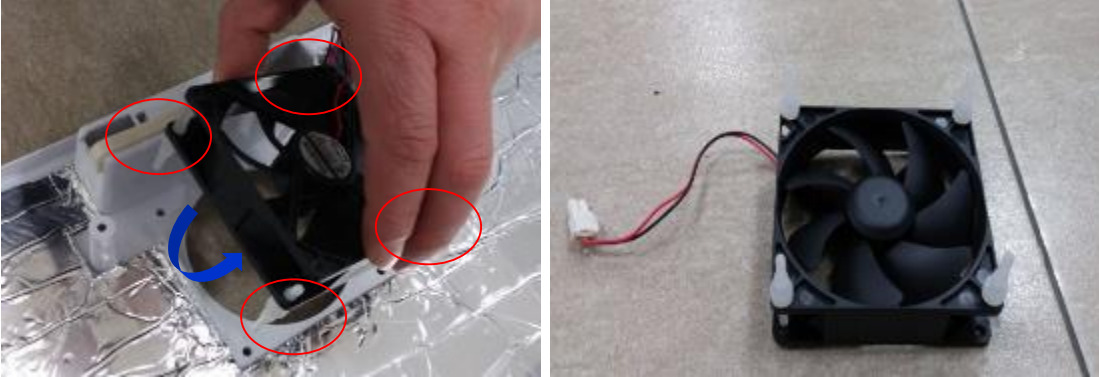


3. Remove refrigerator multi-flow caps and unscrew the screws after removing the multi flow



Removing The Cooler Multi Flow Fan Motor

4. Remove the fan motor by flexing the fan motor rubbers.



5. Place the rubbers (4 pcs) to the fan motor.



6. Place the fan motor.



- 1- First remove the glass shelves and baskets.
- 2- Remove the fixing screws of middle rail and takeout the rail.
- 3- Takeout the freezer multiflow cover.

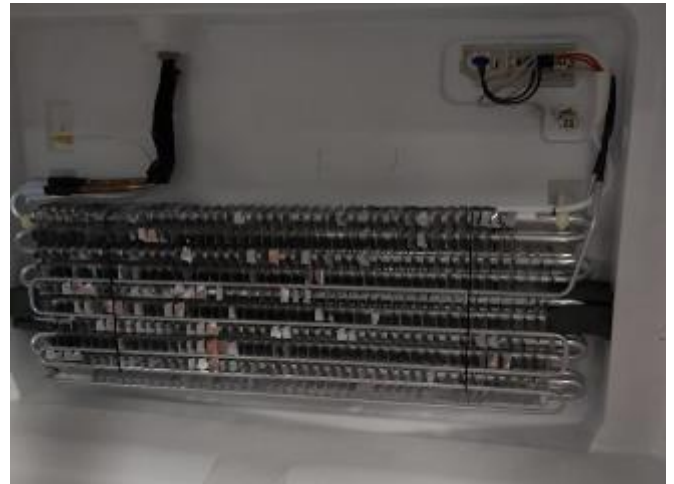
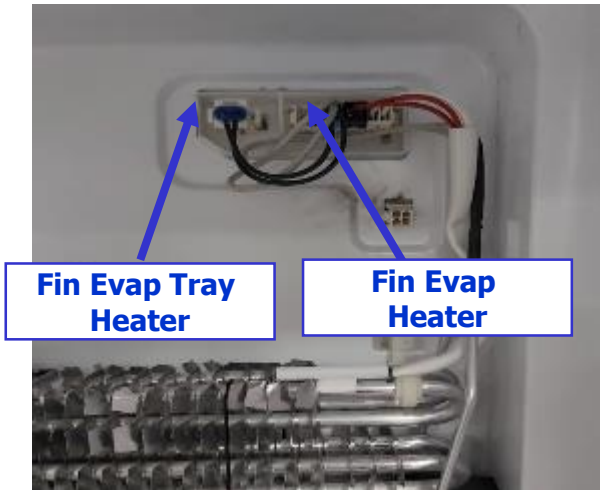


Note: To re-assembly basically repeat the previous steps backwards.

Replacement of Freezer Fin Evap. Assy

1. Disconnect to evaporator connector. (blue connector) Disconnect to evap.tray heater.

2. Remove the evaporator by pulling forward in a horizontal direction.



Do not push it up or down. You may broke the fixing plastics.

Removing The Thermal Fuse

1. Remove the thermal fuse connector. (black-white connector)

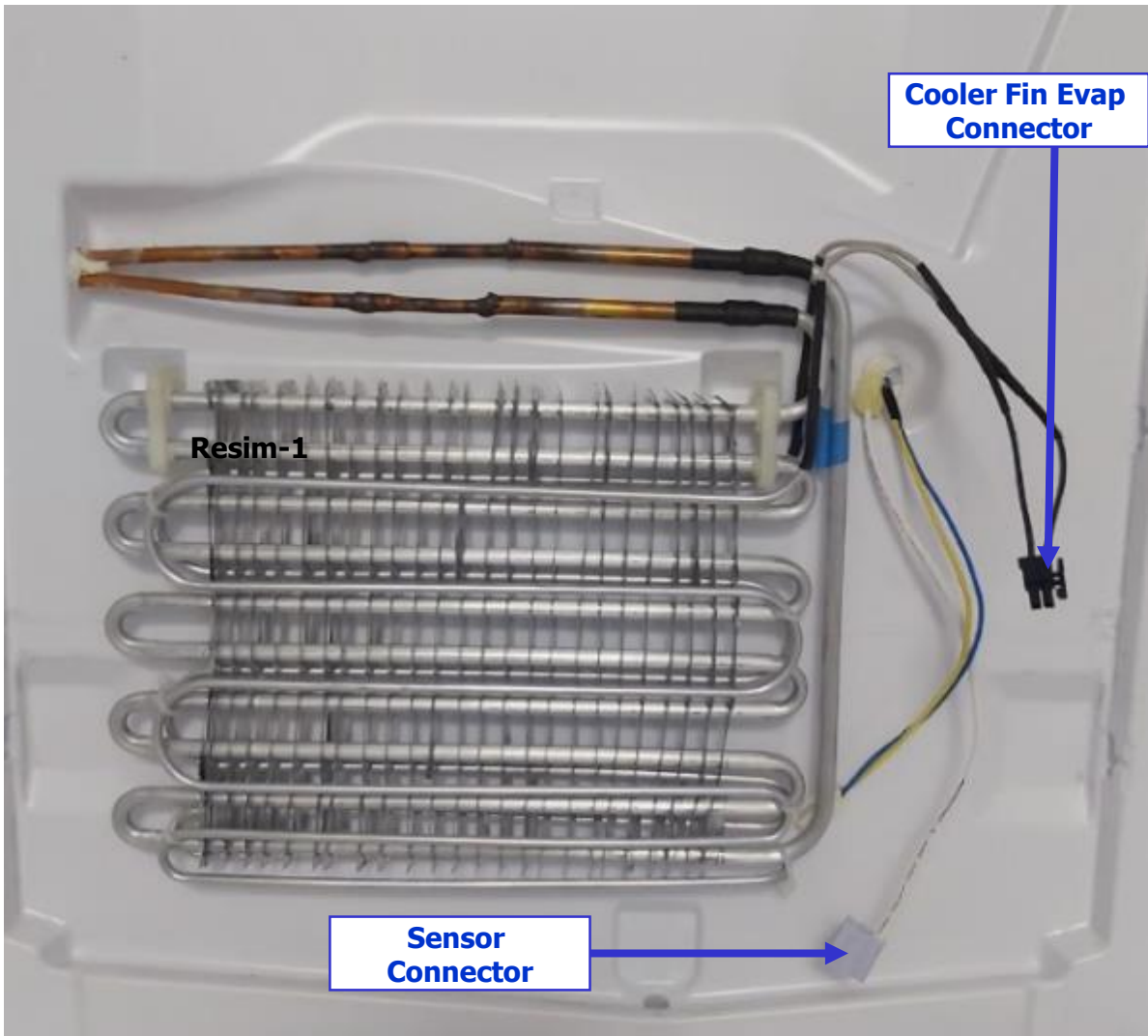
2. Thermal fuse has two details. These details hold on to the pipe. It could be removed easily.



Replacement of Cooler Fin Evap. Assy

1. Disconnect to cooler evaporator and sensor connector.

2. Remove the evaporator by pulling forward in a horizontal direction.



Do not push it up or down. You may broke the fixing plastics.

Warning: Make sure the unit is unplugged

1. Remove the mainboard cover screws placed at the top of the unit and take the



2. Mainboard socket connections are described as below.
3. Remove the connection sockets carefully and remove the mainboard.



Not: All sockets are different on the main board .They are not interchangeable.

Replacement of Main Board

4. Replace the main board.



5. Connect the sockets



6. Tidy up the cables, place the cover and fix the screws.



⚠ CAUTION: The plug must be pulled out before the display is removed.

1. Display can be removed with the disassembly tool. Do not use any sharp objects to remove the display.
2. Disassembly tool code is **42152193**



3. Place and fix the disassembly tool on to display and pull to take out the display.



4. Take out the display cable socket.



Trizbar is placed on the upper left door.

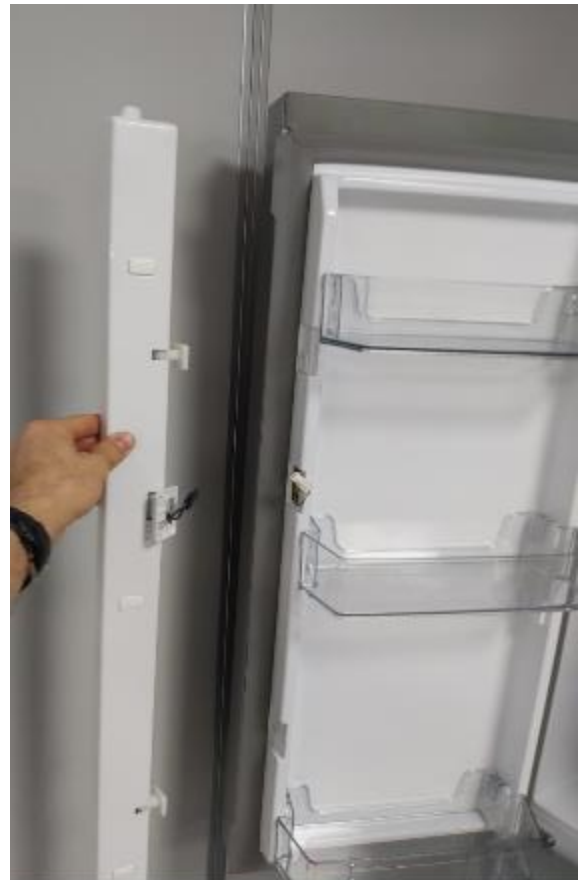
1. Open the left door and remove the fixing screws of the middle.



2. Disconnect to trizbar connections.



3. Remove the trizbar group.



Replacement of Reed Switch

There are two reed switch is under the upper door hinge covers.

1. Unscrew the screws fixing the left and right top hinge cover. Remove the hinge covers.



2. After removing the switch , take out the cable sockets for replacing.

