

OCEAN®

VERTICA FREEZER

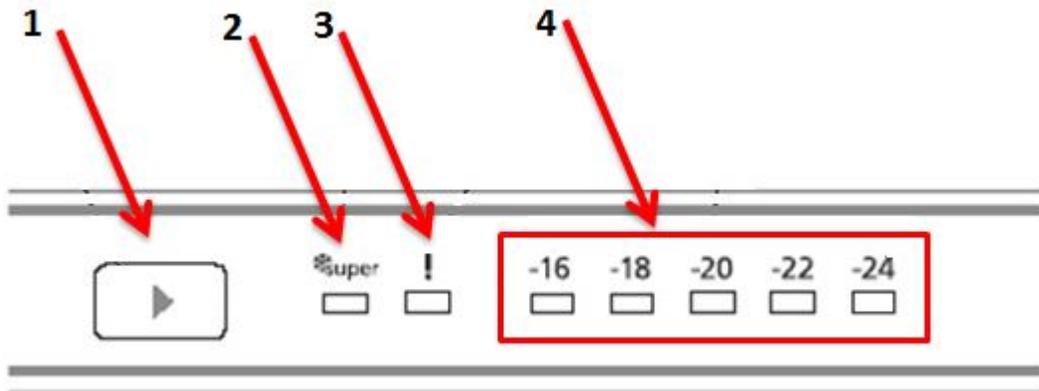
SERVICE MANUAL

Model

CVK 397 NF X A+

Specifications are subject to possible modifications without prior notice.
Les présentes spécifications sont susceptibles d'être modifiées sans préavis.
Las especificaciones están sujetas a cambios sin previo aviso

Pictures of indoor or outdoor units are only sketches which may be different from your equipment.
Les images de l'unité intérieure ou extérieure sont seulement de croquis qui peuvent être différentes du design de votre équipement.
Las imágenes de unidades de interior o exteriores son sólo los bosquejos que pueden ser diferentes de su equipo.



1. It enables the setting value of fridge to be modified and super cool mode to be activated if desired. Freezer may be set to -16,-18,-20,-22,-24 °C, SF.
2. It is the Super Freeze mode symbol.
3. It is the alarm symbol.
4. It is the freezer set value screen.

Super Freezing Mode :

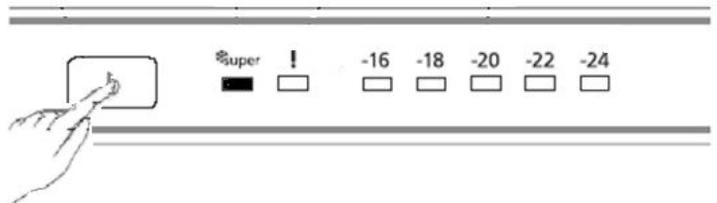
- To freeze plenty of food

How to use;

- Press set button until 'SUPER' led blink.

During this mode:

- Super freeze mode can be cancelled by the same operation of selecting.



Demo mode :

This mode will be use for only sales points by salesman to show functions & modes to customer without operating components as a compressor, fan, motor..Etc

Entering Demo mode:

- Firstly the power is on , with in 1 minute set the temperature to "SUPER" and user will push "SET" button for 10 seconds , Then appliance will go on "demo function" and Super LED symbol will blink during the mode.
- All functions can be adjusted to show how they are adjusted to the customer.

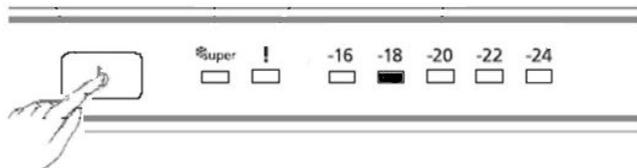
Canceling Demo mode:

- For cancelling; Same operation will be used. If user will push SET button for 10 seconds, demo function will be cancelled.
- When appliance is Demo mode; if plug is removed or there is an electricty breakdown; demo mode will continue with current settings after user plug into or electricity breakdown finish.

Temperature adjustment and activating SUPER COOLING Mode

Initial temperature value for Freezer Setting Indicator is -18 °C.

- Press set button once.
- When you first push this button, the last value appears on the setting indicator of the freezer.
- Whenever you press on this button, lower temperature will be set. (-16°C, -18C, -20°C, -22°C, -24°C,)
- If you continue to press, it will restart from -16°C.
- The temperature value selected before Super Freeze Mode is activated will remain the same when the mode is over or cancelled. The appliance continues to operate with this temperature value.



Recommended Temperature Values for Fridge

When would it be adjusted?	Inner Temperature
For Minimum Freezing Capacity	-16°C
In Normal Usage	-18°C, -20°C, -22°C
For Maximum Freezing Capacity	-24°C, SF

OCEAN [®]	VERTICAL FREEZER CVK 397 NF X A+	CUSTOMER SUPPORT
	Fault Codes	

Sensor short open circuit defect on display

SENSOR	TEMPERATURE	USER MODE REACTION	SERVICE MODE REACTION
(1) Freezer	>+50° C or <-50° C (sensor is short or open)	Display ALARM Symbol blinks	-16 Set Symbol blinks
(2) Refrigerator	NA		NA
(3) Defrost	Short (< 100Ω) or <-50° C		-18 Set Symbol blinks
(4) AT sensor	NA		NA
Breakdown of (1) and (2)			NA
Breakdown of (1) and (3)			-16,-18 Set Symbol blinks
Breakdown of (1) and (4)			NA
Breakdown of (2) and (3)			NA
Breakdown of (2) and (4)			NA
Breakdown of (3) and (4)			NA
Breakdown of (2) and (3) and (4)			NA
Breakdown of (1) and (3) and (4)			NA
Breakdown of (1) and (2) and (4)			NA
Breakdown of (1) and (2) and (3)			NA
Breakdown of all sensors			NA

Component defect on display

DEFECT TYPE	DETAILS	USER MODE REACTION	SERVICE MODE REACTION
Compressor Defect	D sensor temp >-10° C (D sensor temp. unchanges for 10 min. continuous compressor run)	Display ALARM Symbol blinks	-20 Set Symbol blinks

Compressor Defect 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 30 minutes after a defrost
- During the first 2 hours that if door was open.

	VERTICAL FREEZER CVK 397 NF X A+	CUSTOMER SUPPORT
	Service Mode	

Entering service mode:

Push SET button continuously for 10 seconds when -24 set symbol active. Appliance will enter service mode 10 sec. later.

Canceling service mode:

Push SET button continuously for 10 seconds when -24 set symbol active. Appliance will enter service mode 10 sec. later.

If service man do not push any buttons for 30 minutes when appliance is in service mode.

Service mode will be canceled automatically.

Service mode will be used only by professionals.

1.Push Starting program

Push set button 5 second at service mode.

Freezer set value screen light as components are checked.

“-16 set symbol” will light when compressor is ON

“-18 set symbol” will light heater will be ON

“-20 set symbol” will light fan will be ON

2.Push Forced Defrost and Forced Canceling of Defrost

-18 set symbol will light during this mode.. Mode can be canceled manually or automatically.

Manual canceling will be done by pushing SET button. Symbol will be OFF if defrost is canceled manually. Appliance will return to initial Service mode reaction.

If manual canceling of this function is not performed in 40 min.

Service mode will be canceled. Appliance will check if defrost is finished in this 40min. If YES, appliance will go on from previous set values. But if defrost is not finished , appliance will go on defrost till it finishes and then go on from previous set values.

1. Hold the top hinge cover and remove it toward that direction (Picture-1)



Picture-1

2. Unscrew the screws fixing the top hinge and remove it. (Picture-2)



Picture-2

3. Displace the door (Picture-3)



Picture-3

4. Unscrew the adjustable foot (Picture-4)



Picture-4

5. Unscrew the bottom hinge screws. (Picture-5)



Picture-5

6. Unscrew the bottom hinge pin and screw it to other hole. (Picture-6)



Picture-6

7. Screw the bottom hinge to the left bottom side of refrigerator. Screw the adjustable foot there. (Picture-7)



Picture-7

8. Unscrew the two screws fixing stopper and stopper support plate under the door. After that screw the other side. (Picture-8)



Picture-8

9. Remove the hinge cover on the top panel and replace to other side.(Picture-9)



Picture-9

10. Place the door to the bottom hinge and screw the top hinge to the top panel. (Picture-10)



Picture-10

11. Place the top hinge cover. (Picture-11)



Picture-11



Warning: Make sure the unit is unplugged.

1. Remove the refrigerator glass shelves and the flap cover supports left and right. (Picture-1 / Picture-2)



Picture-1

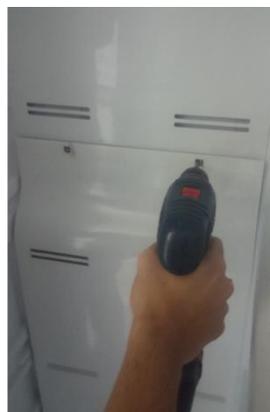


Picture-2

2. Remove the plugs by pulling them under the base with a pointed device to remove the screw plugs and remove the screws. (Picture-3-4-5)



Picture-3



Picture-4



Picture-5

3. Keep the air duct by the left side or right side and stretch it. Get rid of the nails. (Picture-6)



Picture-6

1. Remove the fan motor connector, unscrew the fan motor fixing screws and displace the fan motor and remove the propeller. (Picture-1 / Picture-2)

**Picture-1****Picture-2**

2. Displace the details on the fan motor box. (Picture-3)

**Picture-4****Fan Motor Components**



Warning: This process needs gas deflation, gas re-charging and welding processes so its need to be done by trained professionals.

1. Take out the fin evap heater (blue) connector and remove the bitumen covering the tubes.
(Picture-1 / Picture-2)

**Picture-1****Picture-2**

Warning: Before cutting the tube follow make sure the gas is evacuated.

2. To take out the evaporator, tubes need to be cut with oxygen welding. (Picture-3 / Picture-4)
Remove the evaporator by pulling forward in a horizontal direction. Do not push it up or down.
You may broke the fixing plastics.

**Picture-3****Picture-4**

Replacement Head Panel Display

1. By aid of a flat screwdriver or similar tools remove taps and then unscrew



2. Unhook snapfits on the head panel by reaching from related cavities and pull head panel backward

3. To disconnect head panel unplug socket from the display card



4. Unscrew screws on the card and unhook snapfits and then replace card with new one

5. After disassembly head panel , mainboard in the housing can be reached. Lift up mainboard and pull outward from housing then disconnect sockets on the board,

6. For reassembly , follow steps vice versa



Remove the freezer sensor cover by pulling forward and disconnect sensor connector.
(Picture-1 / Picture-2)

**Picture-1****Picture-2**

Warning: Pay attention not to damage to the sensor cover details!

ASSEMBLE & DISASSEMBLE LED

Remove the led cover by pulling forward and unscrew the two screws fixing the led and remove it.

