

OCEAN®

VERTICA FREEZER

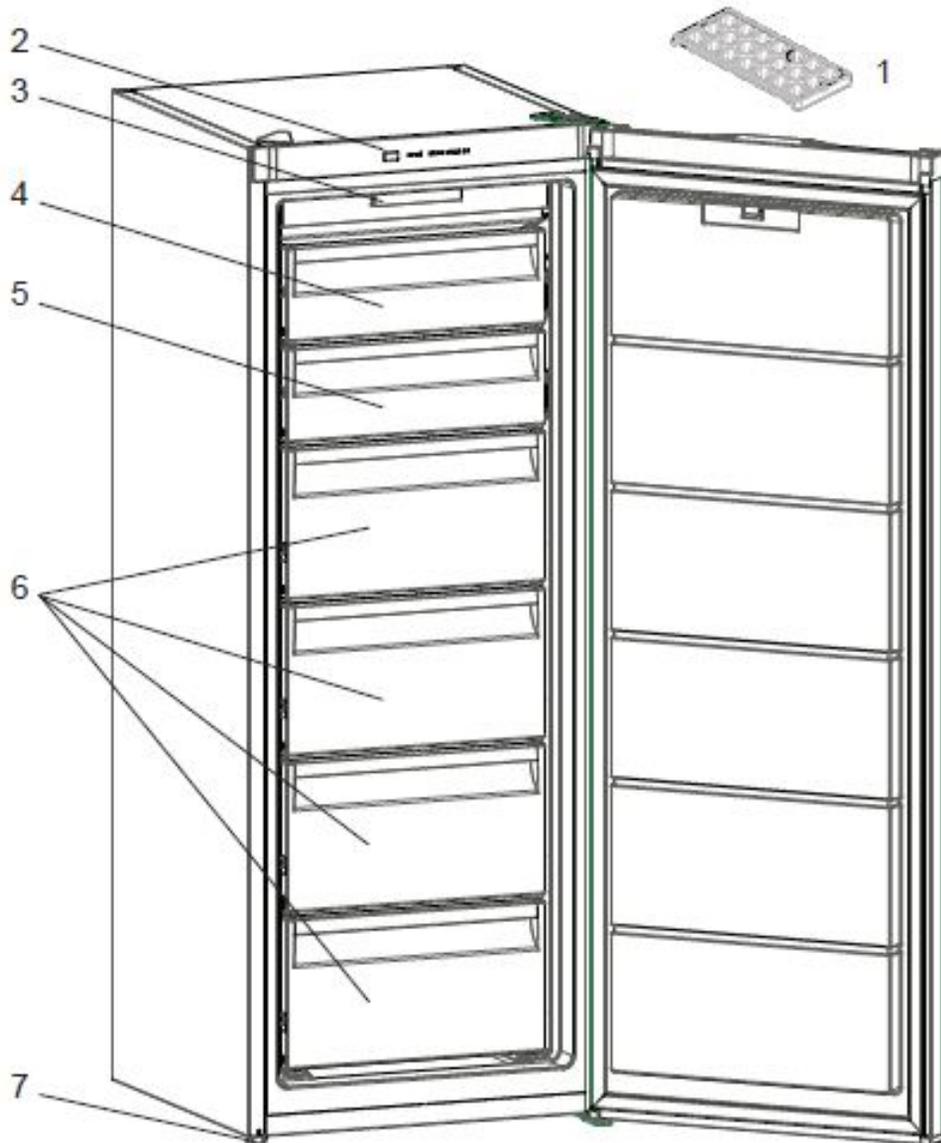
SERVICE MANUAL

Model

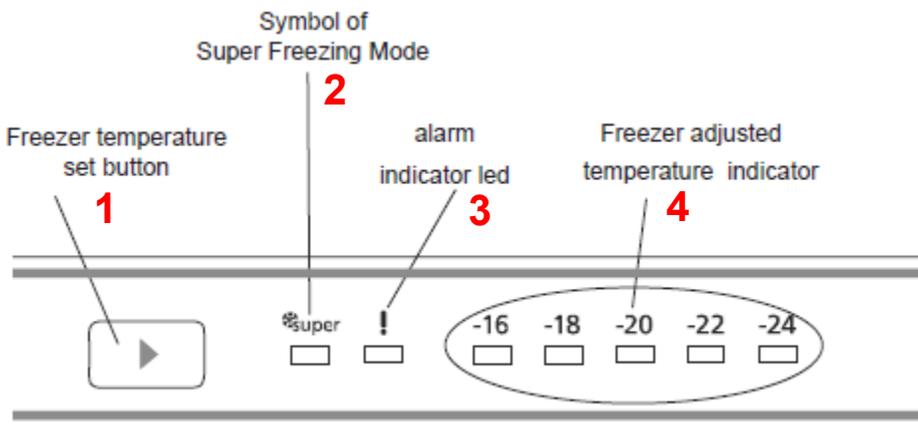
CVK 397 NF X A+

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.

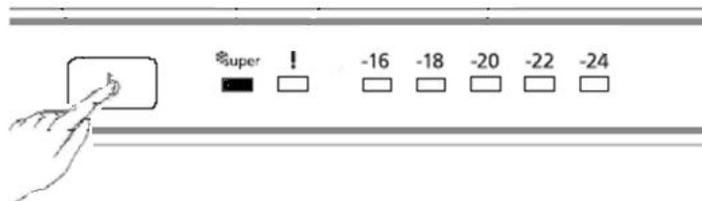


1. Ice tray
2. Freezer control panel
3. No Frost air circulation system
4. Freezer upper room cover
5. Freezer bottom room cover
6. Freezer compartment drawers
7. Adjustable Foot



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 :



When would it be used?

- To freeze huge quantities of food.
- To freeze fast food.
- To freeze food quickly.
- To store seasonal food for a long time.

How to use?

- Press temperature set button until super freezing light comes on.
- Super freezing led will light during this mode.
- Maximum amount of fresh food (in kilograms) to be frozen within 24 hours is shown on the appliance label.
- For optimal appliance performance in maximum freezer capacity, set the appliance to active SF mode 24 hours before you put the fresh food into the freezer.

During this mode:

If you press temperature set button, the mode will be cancelled and the setting will be restored from -16.

Note: “Super Freezer” mode will be automatically cancelled after 24 hours or when freezer sensor temperature drops beneath -32 °C.

OCEAN®	CVK 306 NF S A+	CUSTOMER SUPPORT
	DISPLAY and CONTROL PANEL	

Freezer Temperature Settings

- The initial temperature of the Setting Display is -18°C.
- Press freezer setting button once.
- Every time you press the button, the setting temperature will decrease. (-16°C, -18°C, -20°C,.. super freezing)
- If you press freezer setting button until super freezer symbol is displayed on Freezer Settings Display and you do not press any button within the following 3 seconds, Super Freezing will blink.
- If you keep on pressing, it will restart from last 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

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 electricity breakdown; demo mode will continue with current settings after user plug into or electricity breakdown finish.

OCEAN®	CVK 306 NF S 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.

OCEAN®	CVK 306 NF S 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. It 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. Remove the hinge cover. (Pic-1)



Picture-1

2. Unscrew the screws fixing the upper hinge and remove it. (Pic-2)



Picture-2

3. Replace the door top bushing (Pic-3.1) and top bushing cap. (Pic-3.2)



Picture-3.1



Picture-3.2

4. Remove the adjustable feet. (Pic-4)



Picture-4

5 . Unscrew the bottom hinge fixing screws and insert them the left side. (Pic-5.1 / Pic-5.2)



Picture-5.1



Picture-5.2

6. Remove the door bottom bushing and insert it into left hole. (Pic-6)



Picture-6

8. Assemble the door. Screw the top hinge and hinge cover. (Pic-7.1 / Pic-7.2)



Picture-7.1



Picture-7.2

Replacement Main Board

Warning: Make sure the unit is unplugged.

1. Unscrew the head panel caps and screws. (Pic-1.1 / Pic-1.2)



Picture-1.1



Picture-1.2

2- Remove the head panel. (Pic-2)



Picture-2

3. Unplug socket on the board assembled head panel. (Pic-3)



Picture-3

4- Unscrew the screws fixing the main board and remove it. (Pic-4)



Picture-4

5- After changing the main board insert the new one into the head panel and make the connections. (Pic-5)



Picture-5

Replacement Fin Evap Group

Warning: Make sure the unit is unplugged.

1. Unscrew the condenser screws. (Pic-1)
2. Push the condenser up side and remove.(Pic-2)



Picture-1



Picture-2

3. Remove the sealing material at the housing. (Fig-3)



Picture-3

4. Fix the heat exchanger pipe. (Fig-4)



Picture-4

5. Unscrew the 2 screws shown at the picture. (Pic-5.1 / Pic-5.2)



Picture-5.1



Picture-5.2

6. Remove the flap cover supports left and right. (Pic-6.1 / Pic-6.2)



Picture-6.1



Picture-6.2

7. Take out the fin evap group. (Pic-7)



Picture-7

8. Remove the fin evap strafoam. (Pic-8)



Picture-8

9. Remove the fin evap box. (Pic-9.1 / Pic-9.2)



Picture-9.1



Picture-9.2

10. Remove the black metal clippers. (Pic-10)



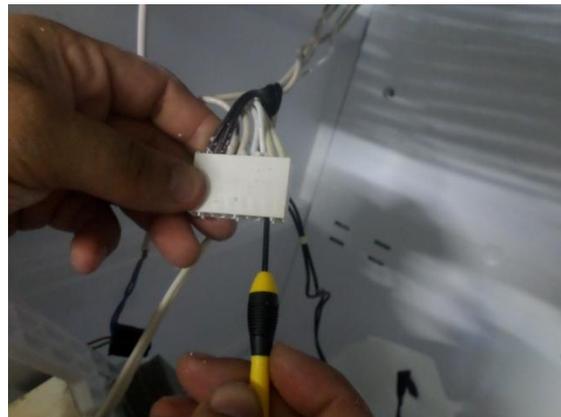
Picture-10

11. Detach the evaporator from the defrost heater. (Pic-11)



Picture-11

12. Take out the fin evap heater connector. (Pic-11)



Picture-12

OCEAN®



Direzione Commerciale / Amministrativa: Via Sanvito Silvestro, 55 – 21100 Varese ITALY
Tel. +39 0332 296011 fax +39 0332 296012
Sede Legale: via Leone XIII n°14 – 20145 Milano ITALY
Cap. Soc. Euro 2.500.000,00 – Società con Socio Unico
R.E.A. Milano 1544616 Cod. Fisc. – Part. IVA e n° Registro Imprese: 12287310150
www.ocean.it

For product improvement, specifications and appearance in this manual are subject to change without prior notice.