



ICE CREAM DISPLAY
MANUAL OF INSTRUCTIONS FOR USE AND
INSTALLATION



HORIZONTAL FREEZERS

INSTRUCTIONS OF INSTALLATION, OPERATION & MAINTENANCE

Before use, please read and follow all safety rules and operating instructions.

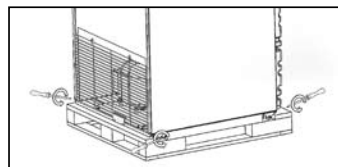
Crystal has a policy of continuous improvement on its products and reserves the right to change materials and specifications without notice.

1. SAFETY

- ⚠ This safety symbol alerts you to potential hazards.
- ⚠ DANGER/ Do not store or use gasoline or other flammable vapors and liquids in the freezer. The fumes can create a fire hazard or explosion.
- ⚠ To reduce the risk of fire, electrical shock, burns, personal injury, follow carefully the instructions with this symbol in & "Electrical connection"
- ⚠ DANGER/ Never clean the appliance with flammable fluids. These fumes can create a fire hazard or explosion.
- ⚠ DANGER/ Before proceeding with cleaning and maintenance operations, make sure that the power line of the unit is disconnected. Failure to do so can result in electrical shock or death.
- ⚠ DANGER/ Do not connect or disconnect the electric plug when your hands are wet.
- ⚠ DANGER/ The maintenance operations must be executed by an authorized technician.
- ⚠ WARNING/ The fuse or circuit breaker size should be 16 amperes.
- ⚠ WARNING/ Do not use solvent cleaning agents or abrasives on the interior. These cleaners may damage or discolor the interior.
- ⚠ WARNING/ If on your freezer there is a mark with the symbol ⚠ means that the device contains a small amount of R290 (propane), hydrocarbon flammable as coolant and friendly to the environment.
- ⚠ WARNING/ Do not store products exceeding the load line limit (indicative red horizontal line in the interior of the freezer).

2. TRANSPORTATION

Always transport the appliance in horizontal position.



3. INSTALLATION INSTRUCTIONS

3.1 Before using your freezer

3.1.a Remove the exterior and interior packing.

3.1.b Check to be sure you have all of the following parts: a) storage baskets according your order, b) instructions of installation, operation & maintenance.

3.1.c Before connecting the freezer to the power source, is necessary to let it stand for some time. So you will reduce a possible malfunction in the cooling system which it becomes from the transportation.

3.1.d Clean the interior surface and gasket with lukewarm water using a soft cloth or sponge.

3.2 Installation of your freezer

3.2.a Locate the freezer preferably in dry areas. Too much moisture in the air will cause frost to form quickly on the interior surface, requiring more frequent defrosting of the freezer.

3.2.b Locate the freezer away from direct sunlight and heat sources such as: oven, radiator or other. So you will avoid the increasing of electrical consumption and you protect the colors of the plastic and metallic parts.

3.2.c Place your appliance on a horizontal floor that is strong enough to support the appliance when it is fully loaded.

3.2.d Level the freezer from side to side and front to back.

3.2.e Allow 10 cm of space in front of engine compartment openings to improve the air circulation for compressor and condenser cooling.

3.2.f After plugging the appliance, allow the unit to cool down before placing products inside.

4. ELECTRICAL CONNECTION

4.1 **WARNING** / Fire hazard.

Do not use an extension cord. If not, you can cause electrical shock, fire, death. If the power cord is too short, have a qualified electrician or service technician install an outlet near the freezer.

4.2 **WARNING** / Electrical shock hazard.

Plug into a grounded wall outlet. Do not remove ground. If not, you can cause electrical shock, fire, death.

4.3 If the power cord is damaged, have it replaced by an authorized electrician.

5. TEMPERATURE CONTROL

5.1 The first time you turn on the appliance after a disconnection, for e.g. defrost, let it run for a few time before putting the products inside. This will ensure the cabinet is thoroughly chilled before products is put in. During some time the compressor will run constantly. This is normal.

5.2 Only for model: **OPTIMUS 16 – inverter edition.**

The variable speed compressor offers maximum low energy consumption.

This is achieved with the longest duty cycle that the system allow in low rpm, avoided in this way to reduce the No of start-ups / stops of the compressor. The compressor stop only for few minutes. This is normal. Also it is normal than when the compressor starts for the first time, it will need some hours continuous running until it's first stop.

5.3 The thermostat is located behind the engine compartment grill. The thermostat position No is presetted by the manufacturer and normally can cover your needs. If you want to modify the presetted position No, you have to turn the thermostat knob clockwise, from position 1 warmest temperatures to position 7 coldest temperatures. We advise you to set it between 3 - 4 position. For models with electronic thermostat conduct with the supplier.

5.4 To turn the freezer off, turn the thermostat knob to 0.

5.5 **WARNING** / Setting the thermostat knob to 0 , you stop the cooling cycle but does not shut off the power to the freezer.

6. DEFROSTING AND CLEANING YOUR FRREZER

6.1 Defrost and clean your freezer when frost has built up to about 15 mm thickness. If the area has to much moisture, the freezer may need more frequent defrosting and cleaning.

6.2 **WARNING** / Unplug the freezer, before cleaning or defrosting.

6.3 **WARNING** / Do not places electrical devices such as fans air hair dryers in freezer for faster defrosting. You can cause electrical shock or death.

- 6.4 Remove all frozen products for cleaning the frost. Leave the frozen products in another freezer or in a cool area.
- 6.5 Leave lid open.
- 6.6 Open the defrost water drain tap (located on the inner bottom) and use a large sponge to remove water faster.
- 6.7 Use a plastic scraper to remove frost.
- 6.8 **⚠** DANGER / Do not use a knife or other sharp tools for defrosting. You can cause damage.
- 6.9 Use a soft sponge or cloth to clean the gasket.
- 6.10 When the interior of the freezer is dry, replace the drain tap.
- 6.11 Close the lid.
- 6.12 Plug in and turn on the freezer at least 1 hour before replacing the frozen products.

7. MAINTENANCE

- 7.1 If your freezer does not work or if it does not work properly, before calling for service, see the troubleshooting guide on & 10.
- 7.2 If the condenser has aluminum sheets dirty or dusty:
 - ⚠** WARNING, unplug the freezer from the power and clean them with a vacuum cleaner or soft paint brush. Clean also the blades of the condenser ventilator by using piece of cloth.
- 7.3 **⚠** WARNING / Other maintenance jobs can proceed only from authorized technicians.

8. TIPS ON SAVING ENERGY

- 8.1 Install it well.
Far from heat sources, from direct sunlight, in a well aired place and keeping free the space around from engine compartment openings.
- 8.2 Close the lids. Make sure that the lids are properly closed.
- 8.3 Defrost and clean the interior tank.
- 8.4 Keep the condenser clean if it has aluminum sheets.

9. WIRING DIAGRAM

It is printed on a sticker in the engine compartment.

10. MATERIAL AND ASSEMBLY INSTRUCTIONS

Only for models: **VENUS 36-46-56 ELEGANTE, VENUS 16-26-36-46-56 VETRINE CURVED, VENUS 16-26-36-46-56 VETRINE, OPTIMUS 16, VENUS 26-36-46-56 S.G.L. N.L. CANOPY BOX, ICE CREAM BICYCLE, ICE CREAM CART.**

An insert in the present manual, gives you all the necessary information you might need, to complete the montage of your freezer.

11. TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE
Freezer does not operate	<ul style="list-style-type: none"> • Not plugged in • The circuit breaker tripped or blown fuse • Compressor is out of order
Temperature inside the freezer is too cold	Thermostat is not set correctly or is out of order
Temperature inside the freezer is too warm / Compressor seems to run too long	<ul style="list-style-type: none"> • A large amount of warm / unfrozen products might have been stored recently. Wait until the freezer reach its selected temperature • The lids are not closed completely • The condenser is covered with dust and dirt (only for condensers with aluminum sheets) • The outside temperature is hotter than normal • There is no enough air circulation space in front of engine compartment openings • The condenser fan motor is out of order • There is a refrigerant leakage in the circuit
Popping or cracking sound when compressor comes on	This is normal. Sound will level off or disappear as freezer continues to run
Bubbling or gurgling sound, like water boiling	This is normal. It becomes from the refrigerant circulating
Vibrations	<ul style="list-style-type: none"> • The freezer is touching the wall. Move it from the wall. • The freezer is not a level surface.
Moisture forms in frost on inside freezer walls	Weather is hot and humid, which is increases internal rate of frost build – up. This is normal.