



User manual

VITRA

Pure transparent refrigeration technology

GB



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1. GENERAL INFORMATION

1.1 THE MANUFACTURER

The factory was founded in 1983 and quickly established itself as a leader in the sector of refrigerated display cases. It is thanks to the company's dynamic commitment to research, innovation and ongoing development of new products that Longoni has become one of the world's most prestigious brands in the refrigerator industry. All our products are tried, tested and proven one by one, as certified by the WARRANTY CARD and TEST CERTIFICATE that you will find attached to this manual. We recommend that you follow the instructions contained herein to increase the durability of your new refrigerator.

1.2 SERVICE CENTER

(Sales, Assistance, Spare parts and Sales Rep)

RETAILER STAMP

For further assistance regarding use and maintenance of the refrigerator or request for spare parts, please contact your dealer, indicating the identification data stated on the label plates (model, serial number, etc.)



See Label A at paragraph 4.6

1.3 CERTIFICATIONS

Our refrigerated display cases and air-condensed refrigerator units are manufactured in conformity with the relevant UE Directives applicable at the moment these products are released into the market. Since the refrigerator under consideration is not covered by ATTACHMENT IV of Directive 98/37/EEC, it is up to the manufacturer to provide the CE marking self-certification.

1.4 WARRANTY

The new apparatus is covered by WARRANTY.

The Warranty Card is packed with each product and comes with this manual. In case the warranty card is missing, please request it from your supplier, indicating the following data:

- Model and Serial Number
- Purchase date

1.5 PREARRANGEMENTS BORNE BY THE CLIENT

The Client is in charge of carrying out the installation work described in this manual.

Unless different contractual agreements have been specifically made, the Client is usually in charge of :

- Prearranging the premises where the apparatus is to be installed, as well as any building work and or /ducts (if required);
- Installing a power supply system in conformity with the regulations in force in the Country where the apparatus is being used
- Detergents for cleaning the refrigerator

1.6 STRUCTURE OF THE MANUAL

The Client must carefully read the information contained in this Manual, in that proper prearrangements and correct installation and use of the refrigerator are the basis of a profitable Client - Manufacturer relationship.

1.6.1 SCOPE AND CONTENT

The purpose of this Manual is to provide all the necessary information to enable the client to use and manage the apparatus in the most safe and autonomous manner possible. This manual contains exhaustive information related to technical aspects, such as functioning, shut-down and maintenance, as well as spare parts and safety issues.

Before performing any operation on the apparatus, the operators and qualified technicians must carefully read the instructions contained in this user and maintenance manual.

Please refer to your dealer to clarify any doubts you may have with regards to the proper interpretation of the instructions.



1.6.2 INTENDED READERS

This manual is intended for use by dealers, users and authorized maintenance staff.

End users are strictly forbidden from performing any operations that are exclusively assigned to maintenance staff or qualified technicians. The manufacturer shall not be held liable for any damage due to non-compliance with the foregoing restriction.

1.6.3 CONSERVATION OF THE MANUAL

1.6.4 SYMBOLS USED

SYMBOL	MEANING	NOTE:
 A...	WARNING	Indicates a warning or a note regarding key functions or useful information. Pay special attention to blocks of text marked with this symbol.
 C...	CONSULTATION	Consult the instruction manual before performing a specific operation.

2. DESCRIPTION AND FUNCTIONING

2.1 DESCRIPTION

The display cases are fitted with air - condensed refrigerator units composed of the following parts (as regards the electrical system):

- Condenser unit (outside of the cell)
- Evaporator unit (inside of the cell)
- Control and command panel located at the top part of the door (see attachment 13.2.3).
- Automatic defrost
- Condensation achieved by air-flow

2.2 FUNCTIONING

The refrigerated display case is fitted with an airtight refrigerator compressor, fed by a single-phase power line. The refrigerant liquid used is type R452/A.

Refrigeration cycle working principle

A sequence of thermodynamic processes causing a change in the status of a given substance (for example, liquid refrigerant) is known as the refrigeration cycle. When the refrigerant enters the evaporator, it is transformed into a gas (evaporation) by means of an endothermic process where heat is required and absorbed – when needed - from the air with which the evaporator is in contact. As a result, when the refrigerant exits the evaporator, the vapours are absorbed by a compressor and sent to the condenser. If the latter, along with the heat that the gaseous refrigerant accumulates during the evaporation process (evaporation enthalpy) also absorbs the calorific equivalent released during the compression process, the refrigerant returns to a liquid state. Given that liquefaction is an endothermic process, heat is produced and then dissipated by air-flow. After exiting the condenser, the liquid refrigerant flows through an expansion element and then returns to the evaporator, thus completing the refrigeration cycle.

3. PREARRANGEMENTS

3.1 LIGHTING

The refrigerator must be located in a well-lit area, according to the regulations currently in force in the country where it is being installed. The lighting system must guarantee optimal visibility from all directions, with no hazardous reflections, and also enable clear visibility and readability of the control panel icons.

3.2 VIBRATIONS

If the apparatus is operated in accordance with the instructions, vibrations are unlikely to cause the rising of hazardous situations.

3.3 NOISE EMISSIONS

The refrigeration unit is designed and manufactured in such a way as to reduce noise at source (see attachment 13.2.2).

3.3.1 SUPPLIES UPON REQUEST

It is understood that modifications and/or addition of components are subject to manufacturer's approval and must be made by the manufacturer himself.

 A...	WARNING	Operators/and or maintenance staff are expressly forbidden from making any modification or alteration to the refrigerator due to the safety risks involved. The manufacturer shall not be held responsible for any unauthorized modification and consequences arising therefrom.
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3.4 ELECTROMAGNETIC ENVIRONMENT

The refrigerator is designed to operate correctly within an electromagnetic environment of industrial type, as it falls within the Electromagnetic Emissions & Immunity limits provided for by the Harmonised standards given below:

- EN 50081-2 Electromagnetic compatibility - Generic emission standard - Part 2 -Industrial environment (1993).
- EN 50082-2 Electromagnetic compatibility - Generic immunity standard -Part 2 - Industrial environment (1995).

4. SAFETY

4.1 GENERAL WARNINGS



The operator must carefully read the information contained in this manual, giving special attention to the safety precautions listed in this chapter.

The User must also follow the safety guidelines listed hereunder:

- Always keep the display case clean and tidy;
- Do not remove or modify the label plates affixed by the manufacturer;
- Do not remove or ignore safety devices;
- Do not touch the apparatus when hands or feet are wet or damp;
- Do not touch the apparatus when barefoot;
- Do not introduce screw drivers or any other object in between guards or parts in motion;
- Do not disconnect the apparatus by pulling the supply cable out from the outlet;
- **Before performing any cleaning and /or maintenance work, disconnect the apparatus from the power line. To do this, turn off the master switch and disconnect the plug.**

4.2 RECOMMENDED USE

The refrigerated display case is designed and intended for use by Communities, Restaurants, Hotels, etc.

4.3 CONTRAINDICATIONS AND PRECAUTIONS FOR USE



The refrigerated display case must not be used:

- for any purpose other than for the purposes specifically indicated under paragraph 4.2.
- in explosive or harsh environments or in the presence of high concentration of dust particles or oily substances suspended in the air;
- in potentially fire-hazardous environments;
- if exposed to weather elements;
- with adaptors, multiple - outlet sockets and/or electric extension cables;

4.4 HAZARDOUS AREAS



The refrigerated display case is fitted with all the necessary safety devices and can be used in potentially hazardous atmospheres. Before carrying out any maintenance and /or repair work, **remove the guards after disconnecting all power sources.**

To this end :

- Deactivate the electrical system by turning off the master switch and disconnecting the power supply cable from the power line.
- **It is absolutely mandatory to put the guards back into place upon completion of the maintenance and/or repair work.**


4.5 SHUT - DOWN PROCEDURE

To shut down the refrigerator, proceed as follows:

- Turn off the master switch.
- Unplug the power supply cable.



4.6 LABEL PLATES

		CE	
Modello/Model	: 6314-L		
Matricola/Series N.	: 00A00A0000		
Gas : R404a - gr 490 -	Cap. : 450 l		
Volt : 220	- Hz : 50	- Watt: 550	- Classe: N

5. SHIPPING AND HANDLING



PLEASE READ THE INFORMATION CONTAINED IN THIS MANUAL VERY CAREFULLY AS IT PROVIDES IMPORTANT GUIDELINES FOR SAFE INSTALLATION, USE AND MAINTENANCE OF THE APPARATUS

BE SURE TO STORE THIS MANUAL IN A SAFE PLACE FOR ANY FUTURE REFERENCE.

5.1 SHIPPING AND HANDLING

The refrigerated display case must be kept in an upright position during shipping and handling operations, in accordance with the instructions (if present) printed on the package.

Shipping must be carried out by professional and qualified staff only.

The display case must be handled in such a way as to avoid unnecessary damage to any of its parts. Depending on the transport method, the display case must be protected from accidental bumping and stress.

Before shipping, the refrigerator may either be packaged or not, according to the means of transportation used.

The refrigerator is packaged in cardboard boxes.

The refrigerator must be handled with forklift truck or a trans-pallet fitted with adequate forks (length should be equal to at least 2/3 of that of the refrigerator).



Any damage occurring to the display case during shipping or handling is not covered by WARRANTY. Repairs or replacement of damaged parts are borne by the Client.

5.2 STORAGE

If a long period of inactivity is foreseen, the refrigerator must be stored with the precautions related to the storage site and storage period.

In this respect:

- Store the display case in a secluded place;
- Make sure it is protected against accidental bumping and stress;
- Keep it protected from moisture and extreme thermal excursions;
- Make sure it does not come into contact with toxic substances.
- Always leave the door open to prevent detachment of NO FOG film and formation of mould.

5.3 CHECKS AND INSPECTIONS

Before putting the refrigerator into service, a series of checks and inspections must be carried out to prevent errors or accidents occurring during start-up.

- Make sure no damage has occurred to the refrigerator during installation.
- Carefully check the integrity of electric cables and tubing.
- Check accuracy of all connections to external power sources.
- Make sure all movable parts are able to rotate and move freely.

6. INSTALLATION



To achieve optimal functionality of your refrigerated display case, it should be placed in a well-ventilated spot, as far as possible from heat sources and direct sunlight.

6.1 COMMISSIONING

- Carefully remove the refrigerator from the cardboard packaging (Fig. 1);
- Remove the transparent protections and cardboard angles (provided by the manufacturer to reduce shipping damage to a minimum) (Fig.2);
- Remove the glass shelves placed on top of the refrigerator (Fig. 3);
- Use a forklift to remove the wooden base (Fig. 4);
- Place the refrigerator on a flat surface.

Fig.1



Fig.2



Fig.3



Fig.4



Before putting the refrigerator into operation, wipe down all its parts with a clean, soft cloth, or spray it with an all-purpose cleaner. Use very little water as it contains suspended mineral matter, that needs to be wiped off almost immediately as it may leave traces that are difficult to remove.

- Wash the reservoir and all interior parts with an anti-bacterial detergent (easy to find at any store);
- Wash away the detergent with a soft sponge soaked with water and dry with a soft, clean cloth.

Do not use abrasive cleaners and/or powders that may dull the surface finishes.

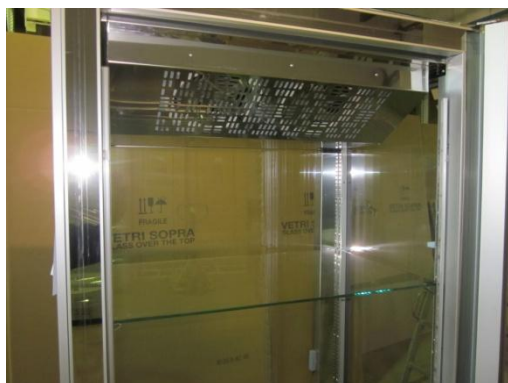
When carrying out the operations above, be careful not to use too much water as it may damage electric parts; a sponge soaked in water will be enough.

- installing the glass shelf supports (Fig.5) on the lateral brackets.
- Position the glass shelf on the side brackets (Fig.6).

Fig.5



Fig.6



6.2 PREARRANGEMENTS

- Make sure the cable sections and the plug are suitable for the power absorbed by the apparatus.

IT IS FORBIDDEN TO USE CABLE EXTENSIONS, ADAPTORS AND MULTIPLE - OUTLET SOCKETS

- Be careful not to install the refrigerator near to heat sources, such as ovens, radiators, direct sunlight, etc.
- Leave at least a 75 mm space (3 inches) between back of cabinet and wall (if this is the case), to prevent formation of condensation.
- Keep the engine compartment clear of any obstacle that may impede or limit air-flow through the condensing unit located in the refrigerator front lower part.
- Make sure the area where the refrigerator is installed is adequately ventilated to guarantee proper cooling of the condenser and compressor unit.
- To ensure effective performance and operation of the refrigerator, make sure the temperature of the area where it is installed will not exceed 30° C (86 F).

Failure to comply with the foregoing conditions may be detrimental to the refrigerator's overall performance, and cause premature wear and tear and abnormally high power usage.



Also see the information under paragraph 1.5

6.3 CONNECTIONS

To avoid any kind of problem during start up, follow the procedures described below.

6.3.1 ELECTRICAL CONNECTIONS

The Client is in charge of making the necessary electrical connections. Connections to the power line must be made in compliance with the regulations in force in the country where the refrigerator is being installed.

- Make sure the power supply voltage corresponds exactly to the indications stated on the label plate affixed to the refrigerator (see Label Plate A).
- Make sure the socket is in conformity with the relevant regulations in force.
- Carefully check for any bare wires.



GROUNDING OF THE REFRIGERATOR IS A MANDATORY SAFETY REQUIREMENT (see Label Plate C).

In case multiple devices need to be aligned, each one must be powered separately.

In order to protect the refrigerator's electrical system from power overload or short-circuit, an overload switch with adequate breaking power must be installed upstream of the refrigerator socket (see Label Plate D).

7. FUNCTIONING

7.1 OPERATORS

Staff in charge of operating and installing the refrigerator must have (or have acquired through appropriate schooling and training course) the qualifications listed below and must also be acquainted with this manual and all safety related information contained therein:

- General and technical culture at sufficient level to understand the contents of this manual.
- Knowledge of the most important standards related to hygiene in the workplace, accident - prevention and technology.

7.2 PUTTING INTO OPERATION

In case the refrigerator was shipped in a horizontal position, leave it upright for 2 hours or so before putting it into operation.

7.3 START UP AND CONTROL PANEL

Tools needed:

- Screwdriver (Philips Head)



- Use the screwdriver to remove the 4 screws located on the rear panel (Fig. 7).
- Run the power supply cable underneath the refrigerator and close the rear panel again (8).
- Connect the plug to the relevant socket.

Fig.7



Fig.8



7.3.1 CONTROL PANEL FUNCTIONS

- A self-test on the touch instrumentation integrated in the refrigerator door will automatically run as soon as the plug is inserted. Once the test is completed, the central red button shall remain lit, and from this point on, the refrigerated display case can be switched on. (Fig. 9).

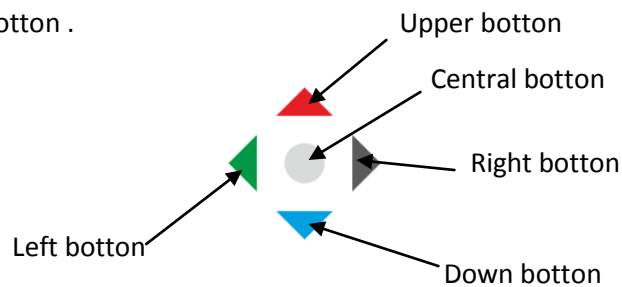
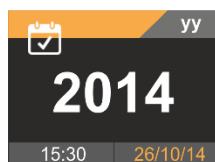
Fig.9



- To turn on the display refrigerated cabinet hold the center red for a few seconds.
- If the internal battery it will be discharge, clock icon appears, to adjust the date and time follow these instructions:



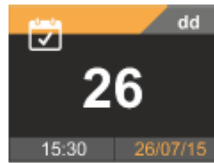
1. Press the central button .



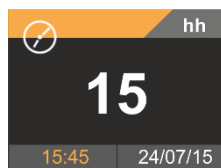
2. Press the upper button to increase the value , and down button to decrease, press the right button to move to the month.



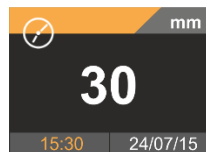
3. Press the upper button to increase the value , the down button to decrease, press the right button to move to the day.



4. Press the upper button to increase the value , the down button to decrease, press the right button to move to the hour.



5. Press the upper button to increase the value , the down button to decrease, press the right button to move to the minutes.



6. Press for four second the central button until confirm the values.

- **KEYBOARD**



LIGHT



---DATE/HOUR

---ROOM TEMPERATURE

EVAP.TEMP. SET POINT COND. TEMP.

- Press the button Left to switch on the led light .

- **7.4 TEMPERATURE ADJUSTMENT**

To set the temperature, proceed as follows :

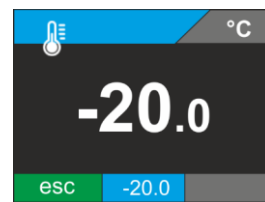
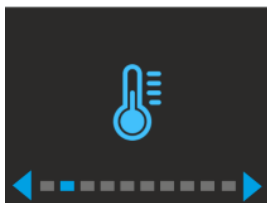
- Press the central button until appeared the Home Page..



Home page



- Press two time the bottom right until appeared the temperature icon.



- Press the central button, the set point temperature appeared, adjust the temperature with the button UPPER AND DOWN , press the central button until confirm the value.

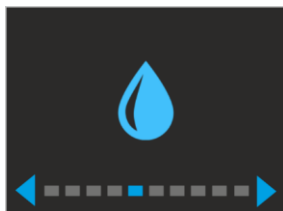
7.4.2 DEFROSTING

The refrigerated display case defrost is automatically. In case if necessity manual defrost follow this instructions:

- Press the central button the home page appeared.



Press five time the bottom right until the defrost icon, press the central button until the defrost start.

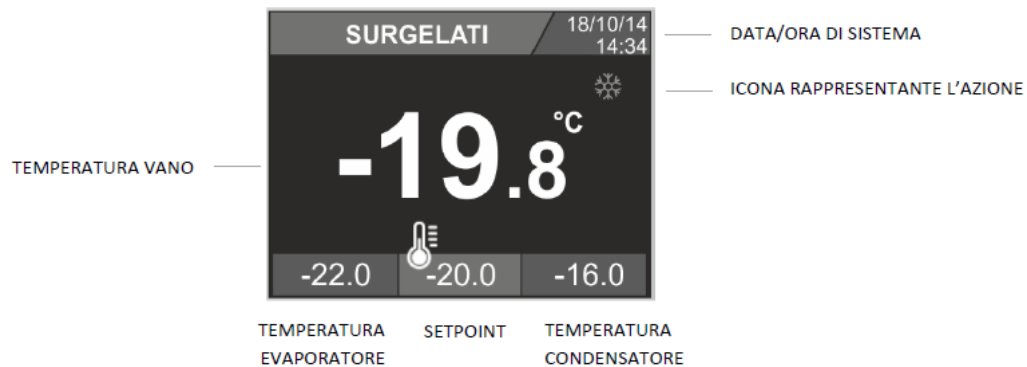


The defrost water is conveyed to the condenser drip pan located inside the engine compartment and evaporates automatically.

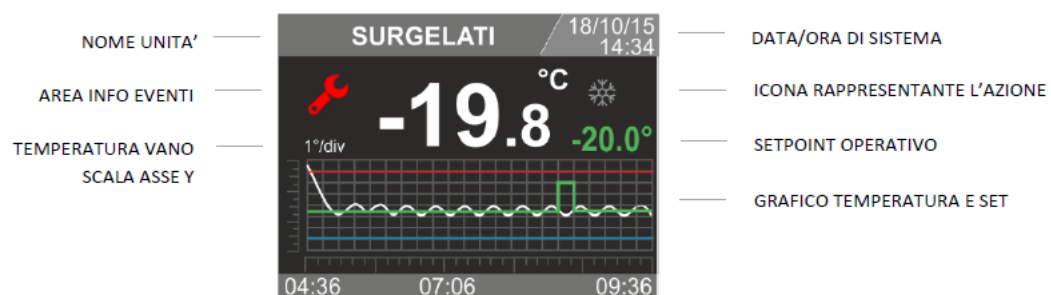
- **TEMPERATURE DISPLAYED**

Is possible control the temperature in the refrigerated cabinet in two way: EASY and SCIENTIFIC. To select the easy or scientific press two time the central botton.

MODALITA' EASY



MODALITA' SCIENTIFICA



- **SWITCH OFF REFRIGERATED CABINET**

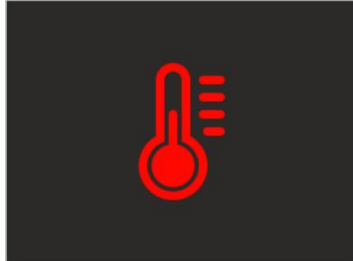
Press the central botton the home page appared, press one time the right botton the OFF icon appared , press the central botton until the refrigerated cabinet switch off.






7.4.3 ALLARM

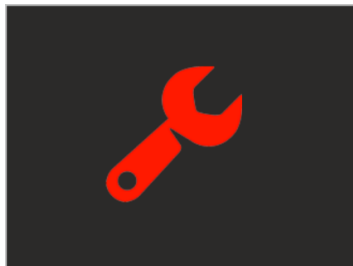
- When there is temperature alarm, the alarm icon appeared and the central button flashing .


Press the central button and the alarm list appeared.



A	06/01/2016	1/3
	9.8° 10m	18.10.15 14:50
	S2	09.10.15 09:28
	S3	09.10.15 09:28

- If there is a failure the failure icon appeared and the central button flashing. Press the Central button the the failure list appeared.



A	06/01/2016	1/3
	S1	09.10.15 09:28
	S2	09.10.15 09:28
	S3	09.10.15 09:28

- When alarm ends ,red envelope appeared, pressing the central button to check the allarm type and cancel the red envelope.
- Open door :



• 7.5.1 ALLARM LIST



BATTERIA GUASTA
BATTERIE EN PANNE
FALLA DE LA BATERÍA
BATTERY FAILURE



SONDA GUASTA
SONDE ERREUR
SONDA ERROR
PROBE ERROR



TIME OUT SBRINAMENTO
TIME OUT DÉGIVRAGE
TIME OUT DESCARCHE
TIME OUT DEFROST



ALTA PRESSIONE
HAUTE PRESSION
ALTA PRESIÓN
HIGH PRESSURE



ALTA TEMPERATURA
HAUTE TEMPERATURE
ALTA TEMPERATURA
HIGH TEMPERATURE



ALTA TEMPERATURA PORTA APERTA
HAUTE TEMPERATURE PORTE OUVERT
ALTA TEMPERATURA PUETRA APERTA
HIGH TEMPERATURE OPEN DOOR



ALTA TEMPERATURA ERRORE DI RETE
HAUTE TEMPERTAURE INTERRUPTION ÉLECTRIQUE
ALTA TEMPERATURA INTERRUPCIÓN ELÉCTRICA
HIGH TEMPERATURE ELECTRICAL INTERRUPTION



BASSA TEMPERATURA
BASSE TEMPÉRATURE
BAJA TEMPERATURA
LOW TEMPERATURE



ALTA CONDENSAZIONE
HAUTE CONDENSATION
ALTA CONDENSACIÓN
HIGH CONDENSATION



BASSE EVAPORAZIONE
LOW EVAPORATION
BAJA EVAPORATION
LOW EVAPORATION



ERRORE PORTA
ERREUR DE PORT
ERROR DE LA PUERTA
ERROR OF THE DOOR



ERRORE MICROPROCESSORE
ERREUR DE MICROPROCESSEUR
ERROR DE MICROPROCESADOR
MICROPROCESSOR ERROR



ERRORE DI RETE
ERREUR D'ALIMENTATION ÉLECTRIQUE
ERROR DE ALIMENTACIÓN ELÉCTRICA
ELECTRICAL POWER SUPPLY ERROR



ERRORE RIDODANZA
ERREUR DE REDONDANCE
ERROR DE REDUNDANCIA
REDUNDANCY ERROR



ALTA TEMPERATURA SCHEDA
HAUTE TEMPÉRATURE CARTE
ALTA TEMPERATURA TABLERA
HIGH TEMPERATURE BOARD



MICRO SD GUASTA
MICRO SD PANNE
MICRO SD FALLO
MICRO SD FAILURE



ERRORI CARICHI
ERREURS CHARGES
ERRORES CARGAS
ERRORS LOADS



GUASTO RELE' 1
DEFAULT RELAIS 1
FALLA RELE' 1
FAILURE RELAY 1



GUASTO RELE' 2
DEFAULT RELE' 2
FALLA RELE' 2
FAILURE RELAY 2



GUASTO RELE' UX
DEFAULT RELE' UX
FALLA RELE' UX
FAILURE RELAY UX

7.6 STORAGE OF FOOD ITEMS

To achieve the best performance from your refrigerator, please follow the advice below;

- Do not introduce hot foods or uncovered liquids into the refrigerator;
- Provide additional protection/packaging to foods, in particular those that contain strong aromas or cream;
- Do not pack the overpack the refrigerator as this can stop cool air from circulating freely
- Open the refrigerator door as little as possible and do not leave open for too long. After closing the door, wait a few seconds before reopening it.

7.6 PRESERVATION OF FOOD ITEMS

One of the major causes of degradation of food and organic substances in general is caused by the multiplication of bacteria that are found inside the cells of food items. Such bacterial proliferation may be delayed considerably by lowering the temperature of the food. As a matter of fact, food items - according to their organoleptic properties - require specific temperatures and environmental conditions for optimal preservation.

To achieve the best performance and efficiency from your newly-purchased refrigerator, we recommend that you pay special attention to:

- The freezing point
- Characteristics and data related to the preservation of certain types of frozen products.

8. ORDINARY AND SCHEDULED MAINTENANCE

The information contained in this chapter are destined for both the End Users (non-specialised staff) and staff in charge of Ordinary Maintenance.

8.1 SAFETY STANDARD REGULATIONS



Before performing any kind of maintenance work, shut down the refrigerator and disconnect the plug from the outlet.

8.1.1 PROHIBITION AGAINST REMOVAL OF SAFETY DEVICES



It is strictly forbidden to remove the guards for carrying out ordinary maintenance works

The manufacturer shall not be held liable for any accident due to non-fulfilment of the foregoing requirement.

8.1.2 GUIDELINES FOR FIRE-FIGHTING EMERGENCY RESPONSE

- Unplug the refrigerator or turn off the power supply master switch;
- Do not use water jets;
- Use dry powder or foam extinguishers.

8.1.3 CLEANING OF INTERNAL PARTS

In this respect, guidelines are provided below:

- Cleaning products: water or neutral, non-abrasive detergents (DO NOT USE SOLVENTS);
- Cleaning methods: wash with soft cloth or sponge;
- Cleaning should be performed on a weekly schedule.

8.1.4 CLEANING OF THE CONDENSER

Tools needed:

- Screwdriver (Philips Head)



A clogged condenser may compromise the overall performance of the condenser unit, and for this reason, it should be cleaned on a weekly basis. Proceed as described below:

- Shut down and unplug the refrigerator
- Open the refrigerator door and use the screwdriver to remove the two screws from the front grille (Fig. 10).
- Lower the front grille and, with the aid of jet of air (Fig. 11) or a dry paintbrush or a brush with rigid bristles, remove dust or lint from the flaps in a vertical movement (Fig. 12).
- In case of oily sediments, use a paintbrush soaked in ethyl alcohol or any other similar substance. Once the operation is completed, close the front grille and restart the refrigerator.

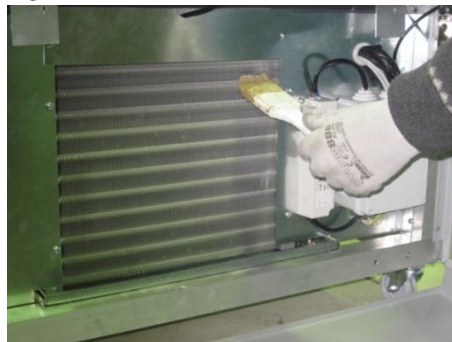
Fig. 10



Fig. 11



Fig. 12



8.1.5 PERIODICAL CHECKS AND INSPECTIONS

The integrity of the electric cables and appliances should be checked on a periodical basis.

8.1.5.1 IN CASE OF PROLONGED INACTIVITY

- Switch off the refrigeration system;
- Switch off the switches;
- Disconnect the plug from the power supply socket interlocked with the switch.
- Remove all products;
- Defrost and clean the machine thoroughly using disinfectant and neutral products to protect it from oxidation (see chapter N.15);
- Leave the doors of the machine open to prevent the formation of mould, bad odours and oxidation which could cause the NON FOG film to detach;
- Cover the machine in order to avoid dust deposits.
- Always check that the power cable is intact; if not, replace it with another with the same characteristics.

9. SPECIAL MAINTENANCE AND REPAIRS



Extraordinary maintenance and repair works must be carried out exclusively by specialized staff and only prior to manufacturer's authorization. We shall not be held liable for any damage resulting from improper interventions carried out by the user or unauthorized staff, or from use of non original spare parts.

10. TROUBLESHOOTING

The table below describes the most common faults, possible causes and troubleshooting suggestions.

FAILURE DESCRIPTION	POSSIBLE CAUSE	SOLUTION
The apparatus fails to turn on	Master switch is set to "OFF" Voltage absent Other causes	Master switch is set to "ON" Check plug, outlet, fuses, power line Contact technical support for assistance
Refrigerator unit fails to start up	Temperature set point reached Failure of control panel Other causes	Set new temperature value Contact technical support Contact technical support
Refrigeration unit runs continuously but fails to reach temperature set point	Excessively warm room Clogged condenser No air vent present on the upper part of the display case Display case exposed to direct sunlight Insufficient refrigerant Condenser fan not running	Add more ventilation to the room Clean the condenser Move display case to another spot Move display case to another spot Contact technical support Contact technical support
Block of ice on evaporator coil	Refrigerator door left open inadvertently Failure of temperature probe Failure of control panel Failure of electrical resistance of water drip surface	Shut down apparatus for 12 hours and then restart Contact technical support Contact technical support Contact technical support
Display case makes too much noise	Extraneous parts clashing into each other Loose screws and bolts Other causes	Check tubing and fan blades to make sure they are not in direct contact with external parts Tighten bolts down Contact technical support
Alarms	See attachment 7.4.3 7.5.1	
Error messages	See attachment 7.4.3 7.5.1	

TO ENSURE THE EFFICIENT OPERATION OF THE REFRIGERATOR, IT IS IMPORTANT TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS. ALSO, PERIODIC MAINTENANCE SHOULD BE CARRIED OUT BY QUALIFIED STAFF ONLY.

(PERIODICAL STANDARDS REGARDING PREVENTION OF WORK-RELATED INJURIES WHEN INSTALLING AND WIRING APPARATUSES).

COMPLIANCE WITH THE CURRENT LAW PROVISIONS ON PREVENTION OF WORK-RELATED INJURIES IS MANDATORY.

11. SPARE PARTS

11.1 SUPPLY OF ORIGINAL SPARE PARTS

Any replacement part can be purchased at our authorized centres. When making your request, the following information must be provided:

- Model and Serial N° (See label plate A);
- Component identification number (see attachment 13.2.3)



Any malfunction due to use of non-original spare parts will not be recognized by our technicians and will cause the warranty to be null.

12. DISMANTLING

The gas present in the system must be removed by authorized staff only. As regards the metal body, it is sufficient to separate steel parts from other materials before sending them to recycling companies.

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