

use and  
maintenance manual

# ECT-F TOUCH



medical  
devices

CE 0051

**Fiocchetti**  
THE COLD MANUFACTURER



## Please read this user manual carefully



Failure to read, any misunderstanding of the instructions contained in this manual can cause irreversible damage to the appliance, as well as create a source of danger for the user, and significantly decrease device performance.

The manufacturer declines all responsibility for uses differing from those listed below



Any maintenance operations must be carried out exclusively by personnel authorized by the manufacturer FIOCCHETTI.



Do not modify any component.

Defective parts may only be replaced with original or similar parts procured from the manufacturer.



Do not power the device before or during any mechanical or electrical maintenance, as some components may be powered.



In the event of non-compliant use or maintenance of the equipment, such as specified by the manufacturer FIOCCHETTI, the warranty would immediately become void.



The material contained in this manual is for informational purposes only. Its content and the product itself may be subject to change without prior notice. Under no circumstances can the manufacturer FIOCCHETTI be held responsible for any damage attributable to the use of this manual.



Provide all the information required regarding the operation of the device being tested to request technical support from Fiocchetti.



All models are available with the environmentally friendly refrigerant R290, in accordance with EU Regulation 2024/573.

Do not damage the refrigerant circuit piping.

The installation environment must have, in compliance with EN 378, a volume of 1m<sup>3</sup> for every 8 g of R290 refrigerant contained in the circuit. The information on the amount of refrigerant is shown on the data plate of the appliance.

| <b>Revision</b> | <b>Date</b> | <b>Description</b>                                                                                                                                                                                                |
|-----------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>F</b>        | 04/2020     | Updated manual dedicated to medical devices. Added module for Usability (EN 62366) and refrigerant gas warnings.<br>Warnings for devices with R290 refrigerant gas inserted<br>Declaration of conformity inserted |
| <b>G</b>        | 09/2023     | Updated Company Name                                                                                                                                                                                              |
| <b>H</b>        | 03/2025     | Graphic update                                                                                                                                                                                                    |



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# 1 GENERAL INFORMATION

## CERTIFICATION

Fiocchetti medical devices are refrigerators and freezers designed for the storage and preservation of human blood, human body liquids and human body tissues destined to transfusion, administration and re-introduction in human body, in accordance with the definition of Attachment IX, point III, rule 2 of Medical Devices Directive 93/42/EC and subsequent modification 2007/47/EC. Following the same directive, these devices fall in class IIa.

## TESTING AND WARRANTY

The machine is tested at our factory in compliance with current regulations and shipped ready for use. The warranty is valid for 12 months from the date of delivery and entitles you to repair/replace parts that are defective, except for electrical and electronic parts. Apparent defects and any discrepancies from the orders must be communicated to the manufacturer within 5 days of goods receipt, under penalty of forfeiture. Any other defect (not apparent) must be reported within 5 days of discovery, and in any case no later than 6 months from goods receipt. The customer is only entitled to the repairing or replacing of the goods, with the absolute exclusion of compensation for any direct or indirect damage of any kind. In any case, the right to repair or replace the goods must be exercised within the maximum time limit provided by the warranty, as the longer terms established by law are being contractually shortened. The repair or replacement of defective parts will take place at the manufacturer's premises, to which the same must be returned on prepaid freight basis; the manufacturer will then return them on ex works basis.

## CONTENT AND RECIPIENTS OF THE MANUAL

This manual has been issued to provide all the necessary instructions for the correct use of the machine and for its maintenance in perfect condition, with specific regard to the safety of the

user. The following professional figures should be defined to identify the tasks and responsibilities:

**Installer:** A qualified technician who carries out the positioning and commissioning of the machine in accordance with the instructions in this manual.

**User:** the person who, after carefully reading the manual, uses the machine for its own and permitted uses. It is mandatory for the user to carefully read the manual and always refer to it.

**Ordinary maintenance technician:** qualified technician able to carry out routine maintenance work on the machine, following the instructions contained in this manual.

**Extraordinary maintenance technician:** qualified technician authorized by the manufacturer, able to carry out extraordinary maintenance work on the machine.



The manufacturer declines any responsibility for improper and invalid intended use of the machine, and for the operations carried out on it neglecting the instructions given in this manual.

The manual must be kept in a place accessible and known to all operators (installer, user, ordinary maintenance technician, extraordinary maintenance technician).

No part of this manual may be reproduced and/or disseminated by any means or in any form.

## PREPARATIONS TO BE MADE BY THE CUSTOMER

The following arrangements are the responsibility of the customer:

- The electrical connection of the machine,
- The preparation of the installation site
- Routine maintenance
- Cleaning the refrigerator and the products used to perform this operation

## REQUEST FOR TECHNICAL INTERVENTION

For technical problems and for any requests for technical assistance, please provide all the information regarding the equipment and its operation.

In this regard, we ask you to send to one of the following addresses all the data requested by the form available at the end of this manual.

|                           |                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technical support</b>  | <a href="mailto:assistenza@fiocchetti.it">assistenza@fiocchetti.it</a>                                                                                          |
| <b>Commercial support</b> | <a href="mailto:commerciale@fiocchetti.it">commerciale@fiocchetti.it</a>                                                                                        |
| <b>Support Request</b>    | <a href="http://www.fiocchetti.it/it/tecnico-frigo.asp">http://www.fiocchetti.it/it/tecnico-frigo.asp</a>                                                       |
| <b>Manual request</b>     | <a href="http://www.fiocchetti.it/it/manuali-frigoriferi-congelatori-emoteche.asp">http://www.fiocchetti.it/it/manuali-frigoriferi-congelatori-emoteche.asp</a> |
| <b>Tel.</b>               | +39 0522 976232                                                                                                                                                 |

Our Technical Assistance Department will provide all the information necessary for the correct operation of the equipment and can put you in touch with the nearest authorized service centre.

## 2 SAFETY

### GENERAL SAFETY RULES



Read the manual carefully and follow the instructions contained. Do not use the equipment for any purpose other than the one it was designed for.

The user is responsible for operations carried out neglecting the instructions in this manual.



The following are the main safety rules to be respected:

- Do not touch the machine with damp or wet hands or feet
- Do not insert screwdrivers or anything else between guards or moving parts
- Do not pull the power cord to disconnect the machine from the mains power supply
- Do not allow the machine to be used by unauthorized users
- Before carrying out any cleaning or maintenance operation, disconnect the machine from the mains power supply, switching it off and unplugging it
- In the event of a fault and/or malfunction, switch off the machine and refrain from any attempt to repair it or any other direct intervention. Only qualified personnel should be consulted.
- Components and parts may only be replaced with original components purchased from the manufacturer or with identical components.

### SAFETY AND ACCIDENT PREVENTION

The machine has been manufactured using appropriate precautions to guarantee the safety and health of the user.

The measures taken to protect against mechanical hazards are listed below:

- Stability: The machine has been designed and built to ensure stability in all expected operating conditions, even when grids/drawers are pulled out, without the risk of overturning, falling or sudden displacement. Carefully read the paragraph dedicated to placement operations
- Surfaces, edges, corners: within the limits permitted by their functions, the accessible parts of the machine are free of sharp corners and sharp edges, as well as rough surfaces that could cause injury
- Moving elements: All movable elements have been designed, constructed and arranged in such a way as to avoid risks. Some parts are also equipped with fixed protections to prevent contact and injury risks.

The following are the measures taken to protect against other risks:

- Electricity: the machine has been designed, built and equipped in such a way as to prevent the risks deriving from electricity, in compliance with the specific regulations in force.
- Noise: the machine has been designed and built in such a way as to minimize the risks of noise pollution (always less than 70 dB).

#### **It is absolutely forbidden:**

- tamper with or remove the evaporator cover, which protects the user from risk of cuts due to the evaporator fins
- Remove the data plates attached to the inner edge of the engine compartment, indicating the technical characteristics and earthing warnings
- Remove the data plate attached to the evaporator and near the electrical wiring inside

the engine compartment, which warns you to shut power off before working on the appliance.

- Replace the power cord of the device without using a cable strain relief.

**The manufacturer accepts no responsibility for the safety of the appliance if the above warnings are not observed.**

## CONTRAINDICATIONS FOR USE

The equipment must not be used:

- Exposed to the elements
- With adapters or extension cords
- In explosive atmospheres or at risk of fire
- Near heat sources

## REFRIGERANT WARNINGS

The product contains flammable gas (R290 refrigerant); the following label appears on the compressor:



In this case, some special precautions must be taken:

1. Place the product in an environment of adequate size, considering that according to the EN 378 standard, a volume of 1m<sup>3</sup> is required for every 8 g of R290 refrigerant. The information on the amount of refrigerant is

shown on the plate located inside the appliance.

2. Do not use the appliance if it shows signs of damage.
3. To avoid damaging the refrigerant circuit, do not use mechanical tools to speed up the defrosting process.
4. Make sure that the ventilation openings of the appliance are always clean and free from obstructions.
5. In the event of a refrigerant spill, avoid using open flames, remove any flammable objects from the product and ventilate the room immediately.
6. Do not store potentially explosive substances (e.g. aerosol cans containing flammable gases) inside the equipment.
7. Do not use electrical appliances inside the refrigerated compartment, unless it is ATEX certified according to EN 60079-1.

In the event of a malfunction, disconnect the appliance from power.



Non-routine maintenance operations must be carried out exclusively by professionally qualified personnel authorized by the manufacturer, and only original or similar components may be used.

### 3 PRODUCT DESCRIPTION

#### TECHNICAL DESCRIPTION

The equipment covered by this manual produces cold by vaporizing a liquid refrigerant at low pressure inside a heat exchanger (evaporator). The vapor thus obtained is returned to the liquid state by mechanical compression at higher pressure (by means of a compressor), followed by cooling in another heat exchanger (condenser). The correct and uniform distribution of air inside the cabinet is guaranteed by one or more fan motors, depending on the model.

The machine consists of a modular monocoque covered with different materials and insulated with polyurethane foam with a density of 43 kg/m<sup>3</sup>.

The instrumentation is grouped on the front panel; In some models, the front panel also functions as a lid for the condensing unit and the electric wirings.

Internally, the machine is equipped with racks suitable for supporting shelves (grids), pull-out drawers and steel baskets.

The doors of all machines are equipped with spring hinges with automatic return and door stop, and with magnetic gaskets for a perfect seal, which can be easily replaced. During design and construction phases, measures are taken to obtain an appliance complying with safety requirements, such as rounded internal corners, condensate water removal, absence of rough surfaces, fixed protections on moving or dangerous components, etc.

For all models covered by the following user manual, the maximum capacity of shelves and drawers is 30 kg with evenly distributed weight.

Some models will need to be fixed to the wall to ensure stability.



**All models are for indoor use: outdoor installation is not permitted. Incorrect operation caused by installation in unsuitable environments will void the warranty of the equipment.**

#### INTENDED USE



The equipment covered by this manual is a storage device: for its correct operation, it is necessary to introduce only pre-cooled or frozen products, depending on the model.

Any use other than those permitted is considered "improper use" and will therefore void the warranty.

Fiocchetti's medical device is identified as devices intended for the preservation of blood, plasma and human milk, intended for transfusion, administration or introduction into the body, as defined in Annex IX, point III, regulation 2 of Directive 93/42/EEC and its amendment 2007/47/EEC. According to the same directive, these medical devices are classified as class IIa.

As a result, medical devices can store those body fluids that will then be reintroduced into the human body, for example:

- Blood
- Plasma
- Donor breast milk

The models that fall into this category are:

| MODEL                                                     | Settable T set point                                       | Factory T set point                       |
|-----------------------------------------------------------|------------------------------------------------------------|-------------------------------------------|
| <b>BLOOD BANK</b>                                         | +3°C to +5°C or<br>+21°C to +23°C*                         | +4°C or<br>+22°C*                         |
| <b>2T BLOOD BANK (Compartment A/Compartment B)</b>        | +3°C to +5°C                                               | +4°C                                      |
| <b>TWIN BLOOD BANK</b>                                    | +3°C to +5°C                                               | +4°C                                      |
| <b>PLASMA SUPERARTIC</b>                                  | -20°C to -40°C                                             | -35°C                                     |
| <b>PLASMA VISION</b>                                      | -10°C to -20°C                                             | -20°C                                     |
| <b>PLASMA VISION 2T (Compartment A/Compartment B)</b>     | +3°C to +5°C compartment A<br>-10°C to -20°C compartment B | +4°C compartment A<br>-20°C compartment B |
| <b>PLASMA FREEZER</b>                                     | -10°C to -25°C                                             | -20°C                                     |
| <b>PLASMA-LABOR 2T (Compartment A/Compartment B)</b>      | +3°C to +5°C compartment A<br>-10°C to -25°C compartment B | +4°C compartment A<br>-20°C compartment B |
| <b>PLASMA SUPERARTIC 2T (Compartment A/Compartment B)</b> | +3°C to +5°C compartment A<br>-20°C to -40°C compartment B | +4°C compartment A<br>-30°C compartment B |

\*On request for models from 100 to 500

Despite the definition of medical device, the refrigerators can also be used for the storage and preservation of:

- Properly packaged drugs, vaccines and reagents, of any kind
- Substances or materials of general use in a hospital, laboratory or pharmaceutical environment **that are NOT flammable nor explosive**

**The user must pay attention to the temperatures reported.** Being medical devices, the set point temperatures set by the manufacturer can be modified within the limits of the intended use; therefore, **it is the user's responsibility to store such general-purpose substances or materials with reference to their storage temperatures[FFI].**

## IMPORTANT



Breast milk, blood bags and blood-derived products must **NOT** be stored with other materials (drugs, reagents, general purpose substances), must be preserved according to the temperatures set by the manufacturer, and for the appropriate storage period



Blood and breast milk **MUST NOT** be stored together.

For the integrity of the "product", it is important to use the device for the storage of one only of these body fluids, in separate devices, and not in a promiscuous way.



Fiocchetti company declines all responsibility in the event that the personnel in charge is not adequately trained on the specifications of storage of body fluids, or trained in relation to the correct use of blood (specific temperatures and storage times on the basis of sector studies) and

the correct treatment of donated breast milk according to the guidelines (Official Gazette no. 32, 8 February 2014).



Fiocchi declines all responsibility for the product lifecycle/phases prior to or following the storage of donated breast milk, blood and blood products

## GENERAL FEATURES OF THE DEVICE

|                                                      |                                                                                  |
|------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Power supply</b>                                  | See power supply on the product identification label on the back of this manual. |
| <b>Frequency</b>                                     | See power frequency on the product rating plate on the back of this manual.      |
| <b>Phase</b>                                         | 1 ph                                                                             |
| <b>Ambient temperature of use</b>                    | See climate class on the product identification plate on the back of this manual |
| <b>Permissible ambient humidity</b>                  | Maximum relative humidity 60%, non-condensing                                    |
| <b>Environment of use</b>                            | For indoor use only. Violation of this requirement will void the warranty terms. |
| <b>Overvoltage category</b>                          | Category II                                                                      |
| <b>IP Grade</b>                                      | IPX0                                                                             |
| <b>Altitude</b>                                      | Up to 2,000 m                                                                    |
| <b>Degree of pollution of the environment of use</b> | 2                                                                                |
| <b>Cooling</b>                                       | See refrigerant gas type on the product rating plate on the back of this manual. |
| <b>Gas quantity</b>                                  | See refrigerant quantity on the product rating plate on the back of this manual. |

|                                     |                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Maximum pressure rating</b>      | High side: 22 bar<br>Low side: 14 bar                                                         |
| <b>Storage temperature</b>          | See table in the previous paragraph according to the model.                                   |
| <b>Current rating</b>               | See product rating plate on the back of this manual                                           |
| <b>Display</b>                      | 7" resistive touch screen display                                                             |
| <b>Display resolution</b>           | 0.1°C,<br>accuracy +/- 0.3°C                                                                  |
| <b>Noise</b>                        | ≤ 70 dB                                                                                       |
| <b>Load capacity of the shelves</b> | 30 kg evenly distributed                                                                      |
| <b>Drawer load capacity</b>         | 30 kg evenly distributed                                                                      |
| <b>Insulation</b>                   | Polyurethane foam with a density of 43 kg/m <sup>3</sup> .                                    |
| <b>General Fuse</b>                 | See detail at following paragraph and on the product rating plate on the back of this manual. |
| <b>Electronic Board Fuse</b>        | T2A 250V, 5x20 mm and<br>T4A 250V, 5x20 mm                                                    |
| <b>Interior lighting</b>            | Full LED (if present)                                                                         |
| <b>Defrosting</b>                   | Automatic                                                                                     |
| <b>Alarm system</b>                 | Yes                                                                                           |

## GENERAL FUSES

General fuses ratings may vary basing on the model and are always described on the device data plate on the back of this user manual and on the device itself.

On most of the models, ratings are T10A 250V 6,3x32 mm, except for following models:

| MODEL                | GENERAL FUSES RATINGS   |
|----------------------|-------------------------|
| PLASMA- FREEZER 1500 | T15A 250V,<br>6,3x32 mm |

|                               |                        |
|-------------------------------|------------------------|
| <b>PLASMA- SUPERARTIC 250</b> | T16A 500V,<br>10x38 mm |
| <b>PLASMA-SUPERARTIC 400</b>  | T16A 500V,<br>10x38 mm |
| <b>PLASMA-SUPERARTIC 700</b>  | T16A 500V,<br>10x38 mm |

Fuses are replaceable by operators, except for models SUPERARTIC 250, SUPERARTIC 400 and SUPERARTIC 700, in which they are located inside technical box.

### CLIMATE CLASS

The device identification plate (see chapter 9) shows the correspondent climatic class, i.e. correct suitable

ambient temperature range for proper operation. Below is a table showing the symbols with the corresponding ambient operating temperatures.

| SYMBOL    | OPERATING RANGE °T |
|-----------|--------------------|
| <b>SN</b> | +10°C to +32°C     |
| <b>N</b>  | +16°C to +32°C     |
| <b>ST</b> | +18°C to +38°C     |
| <b>C</b>  | +10°C to +25°C     |



The climate class shown on the plate refers to the factory set point.

## 4 DEVICE INSTALLATION

### TRANSPORT AND HANDLING

The appliance must be transported and handled in a vertical position only, following the instructions on the packaging.

The accessories supplied with the machine (guides, grids, drawers, baskets, etc.) are placed inside the cabinet. The machine is fixed to a wooden base by means of screws, and packaged with polyethylene, cardboard, cage or wooden crate packaging.

The appliance must be handled using a lifting or trans-pallet trolley, equipped with suitable forks (with a length of at least 2/3 of the appliance).

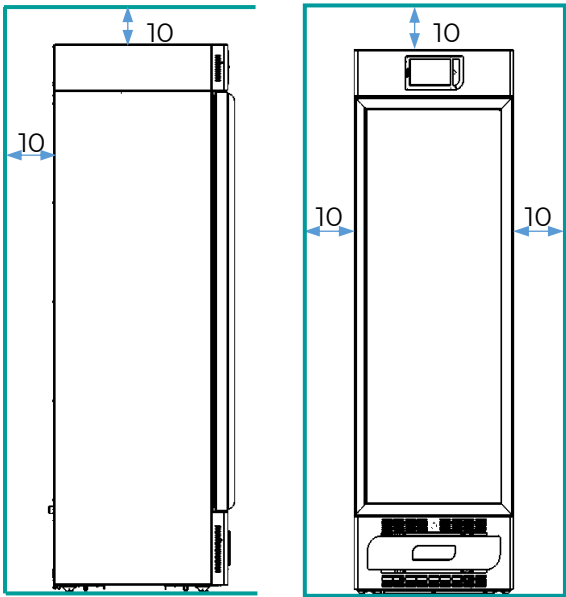
In case the appliance needs to be laid flat during transport to access the rooms of destination, it is then essential to wait at least 6 hours before putting it into operation. The manufacturer declines any responsibility for problems due to transport carried out under conditions other than those specified.

### POSITIONING OPERATIONS

Since incorrect positioning of the appliance can result in damage to the machine and risks for users, the installer must comply with the following general rules:

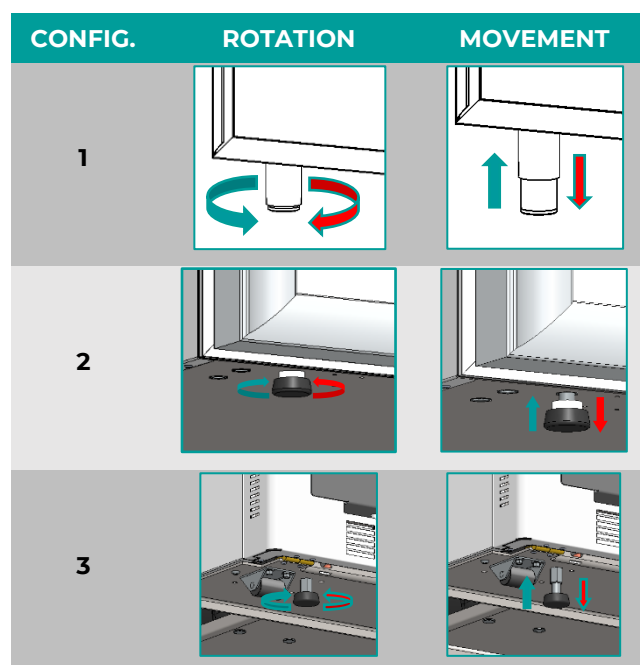
- Position the appliance keeping a minimum distance of 10 cm. from any wall (in the case of installation in furniture, the correct ventilation of

the condensing unit (compressor/fan motor) must always be guaranteed).

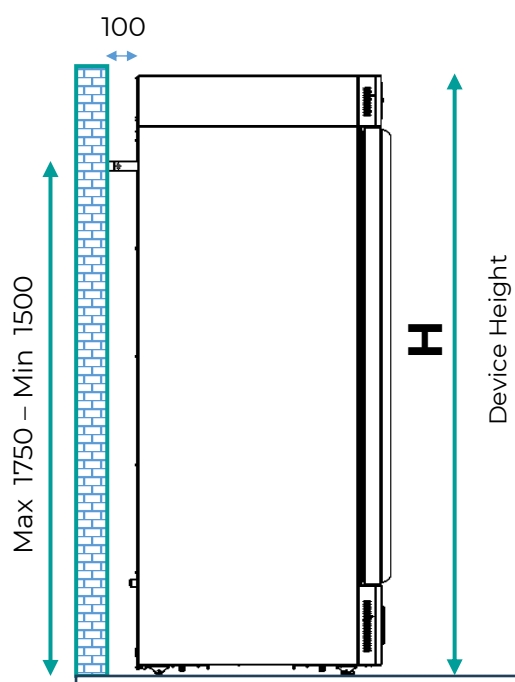


- Place the machine in a sufficiently ventilated environment
- Place the machine away from heat sources
- Place the machine away from sources of electromagnetic interference (such as motors, generators, infrared rays, telephones) that may have adverse effects on the operation of the equipment
- Avoid direct sun exposure and air conditioning flow
- remove the supplied accessories and the wooden pallet

- do not position the device in a way such as to make difficult the disconnection of the power cord if necessary.
- Position the machine using a spirit level and adjust the feet metal base (in models equipped with adjustable feet)



For models with a height of more than 1.5 m, installation with wall mounting brackets is indicated.



## CLEANING OPERATIONS

The appliance has already been factory cleaned. However, it is suggested to carry out a further cleaning following the instructions below:

- remove the PVC film applied to protect the external surfaces of the machine
- Wipe the inside of the cell with an alcohol cloth to remove protective oils.

The glass door must be cleaned using a cloth dampened with water. Never use chemicals for internal cleaning.



\*: To clean the device, please also refer to the dedicated chapter of this manual

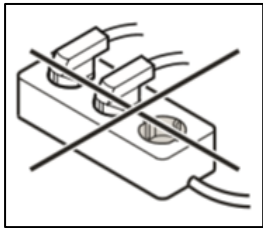
## WIRING AND ELECTRICAL CONNECTION

The installation and electrical connection must be carried out by qualified personnel.

For safety purposes, the following information must be observed:

- The power cord is the primary means of disconnection for the devices covered by this user manual. To remove power from the device, unplug the power cord.
- check that the sizing of the system is adequate for the power absorbed by the machine
- correctly connect the equipment to an effective earthing system set in accordance with the law, as required by current provisions
- In the event of incompatibility between the socket and the plug of the machine, replace the socket with another of a suitable type, given it complies with the regulation.
- If the power cord is damaged, it must be replaced only by qualified personnel to prevent any risk
- The socket must not be positioned behind the appliance and must be within easy reach. If the

- appliance is supplied without a plug, connect it directly under the electrical panel.
- If it is necessary to replace the power cord, the operation may only be carried out by qualified personnel authorized by the manufacturer, with components supplied by the manufacturer, including a cable strain relief.
  - Do not plug the appliance in with an extension cord or power strip. (See figure below).



- Do not use inverters for off-grid systems (conversion of direct current to alternating current or three-phase current) or energy-saving connectors, as they may cause damage to the electronics.



For SUPERARTIC model, special attention must be paid to the electrical connection, as the power consumption is high. Prepare cables with a cross-section of at least 2.5 mm and limited length.

## ELECTRICAL PROTECTIONS

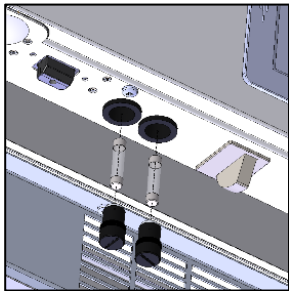
According to safety regulations, the devices are equipped with n.2 (phase and neutral) general safety fuses for integral protection against electric shocks, short circuits and overcurrent. In most models, the general fuses are replaceable by the operator and accessible from the front: when you open the refrigerator door, they are located below the front panel. If this is not the case, contact technical support.

The general fuses which can be replaced by the operator and are accessible from the outside of the unit have a size of **6.3 x 32 mm**, except for following models:

| MODEL               | GENERL FUSES RATINGS |
|---------------------|----------------------|
| PLASMA-FREEZER 1500 | T15A 250V, 6,3x32 mm |

|                       |                     |
|-----------------------|---------------------|
| PLASMA-SUPERARTIC 250 | T16A 500V, 10x38 mm |
| PLASMA-SUPERARTIC 400 | T16A 500V, 10x38 mm |
| PLASMA-SUPERARTIC 700 | T16A 500V, 10x38 mm |

The fuse rating for the specific appliance can be found on the product data plate, which is attached to the back of this manual, or within the chamber of the device itself.



In some models, however, the main fuse is not accessible by the operator as it is installed inside the electrical box. In this case, the fuses are 10 x 38 mm in size and the breaking current is shown on the product date plate attached on the back of this manual or within the chamber of the device itself.

In any case, the fuses on the electronic controller cannot be replaced by the operator but can only be accessed by qualified personnel.

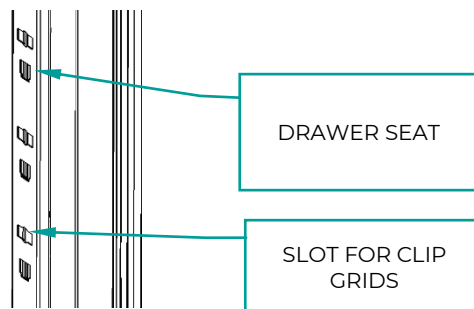
## TUNING OPERATIONS

Before starting the equipment, check that no damage has occurred during transport, handling and installation operations.

- check the integrity of the packaging (it must not have dents and/or breaks)
- check the integrity of the external parts of the structure (they must not have dents and/or breaks)
- check the integrity of the power cord (it must not have suffered abrasions or cuts)
- check the solidity of the feet and/or wheels
- check if the door opens correctly and that it closes tightly
- check the door seals: they must not present cuts and/or abrasions
- Check the user interface (display) for marks or cracks

## USE OF THE INTERIOR AND MATERIAL STORAGE

The stainless-steel rack system allows the insertion of shelves (grids) and/or drawers that can be completely extracted on telescopic guides (non-telescopic for SUPERARTIC and PLASMA SUPERARTIC models) with the possibility of having a perfectly interchangeable drawer/grid set-up.

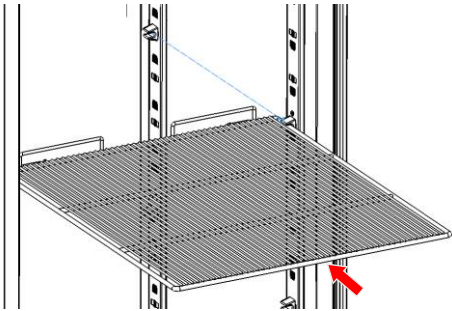


### INSTALLING THE SHELVES (GRIDS)

Place the supports for the grids on the racks in the most suitable position for use, insert them into the appropriate seats and turn them 90° to lock them. It is now possible to insert the grids.

| Sequence | Figure                                                                                                                                                               |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | A technical drawing showing a support bracket being inserted into the horizontal slot of the rack profile. A red line indicates the path of the bracket's insertion. |
| 2        | A technical drawing showing the support bracket being rotated 90 degrees, as indicated by a red curved arrow and the '90°' label, to lock it into the rack profile.  |
| 3        | A technical drawing showing a grid being inserted into the vertical slot of the rack profile. The grid is shown with its characteristic slatted structure.           |

4

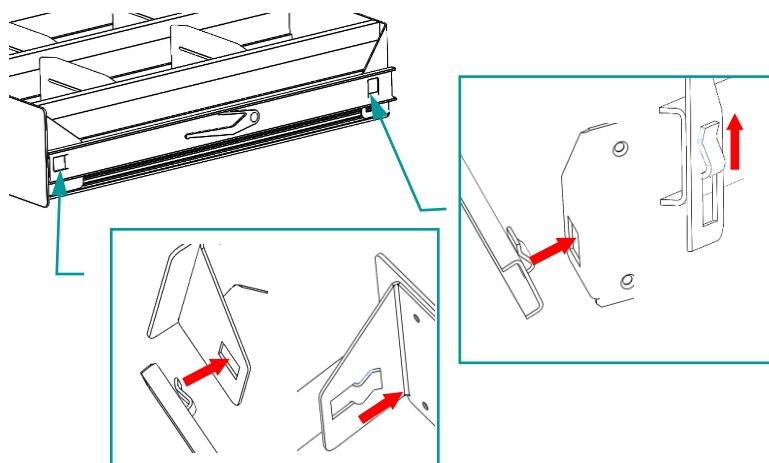


DRAWER INSTALLATION

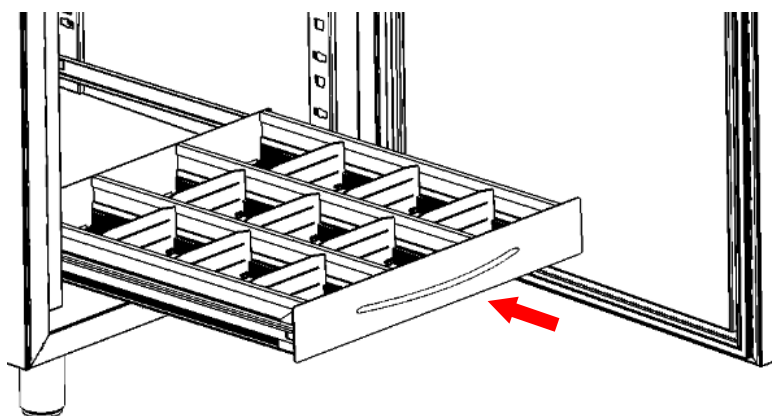
Insert the guides into the appropriate rack slots and remove the telescopic guides by pressing on the black lever, mount them on the drawer and insert the drawer on the guides on the racks.

| Sequence | Figure |
|----------|--------|
| 1        |        |
| 2        |        |
| 3        |        |
| 4        |        |

5



6



## POSITIONING MATERIAL INSIDE THE COMPARTMENT

To avoid malfunctions and to allow an air flow such as to guarantee temperature uniformity inside the refrigerated compartment, it is necessary to pay attention to the loading operations of the material.

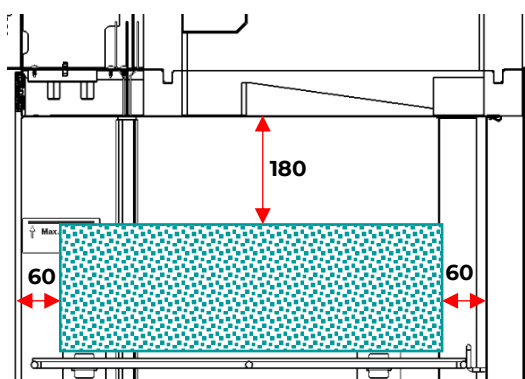
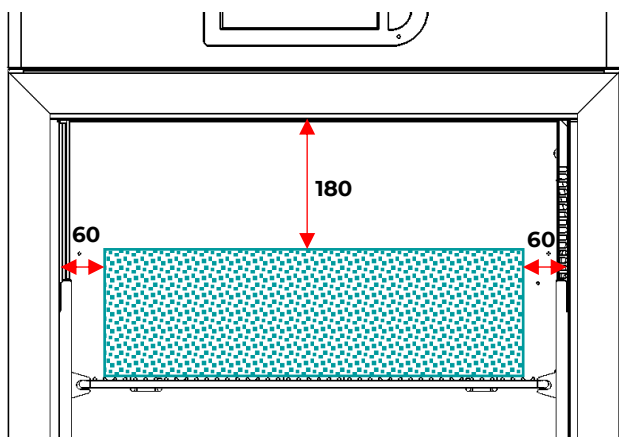
Follow these steps:

Do not place material above the indicator label of the maximum permissible level.

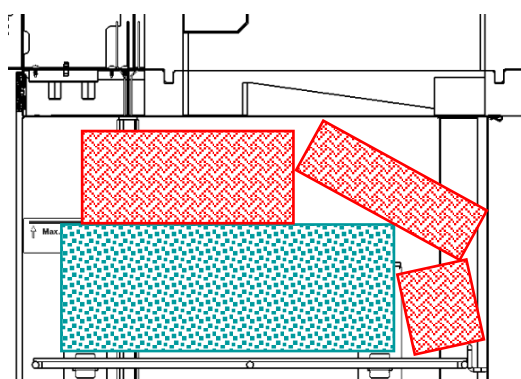
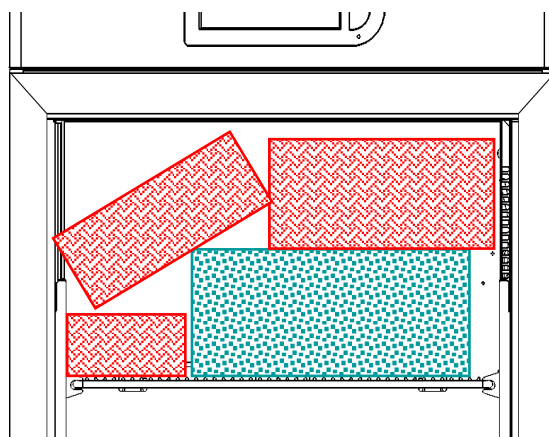


Always store the material at least 6 cm from the walls and at least 18 cm from the top of the compartment.

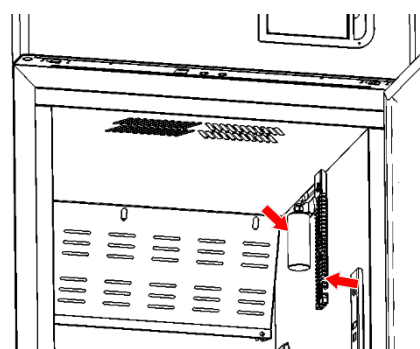
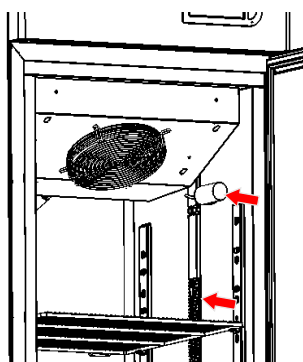
**CORRECT**



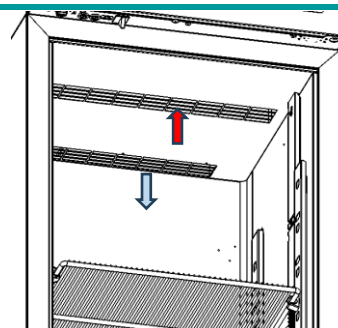
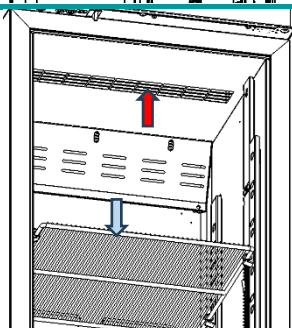
**INCORRECT**



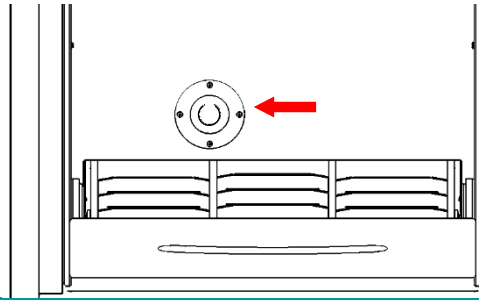
Do not place material in contact with, or near, the temperature probes.



Do not block the air vents



Do not block the equalization valve in SUPERARTIC models



## INDICATIONS FOR OPTIMAL USE

Following indications must be followed to achieve the best operating performance of the machine:

- The supply voltage must be as shown on the rating plate (+/- 10%)
- The equipment has been designed and manufactured to operate in environments according to the climatic class shown on the technical data plate and relative humidity of 60%.
- Do not block the air inlets of the cooling unit compartment
- gradually insert the stored material at room temperature to allow proper refrigeration
- arrange the material on the appropriate shelves (or drawers). Do not place goods directly on the bottom, nor against the walls, doors or fixed protections (see section 4.6.2)
- close the doors carefully
- limit, as far as possible, the frequency and duration of doors opening.
- Always keep the defrost water discharge pipe clear

- follow a regular maintenance schedule (see chapter 6)

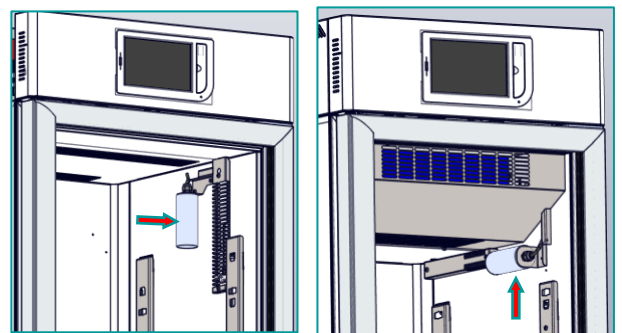
All freezers are designed to accommodate already frozen material, especially SUPERARCTIC models.  
The turnover of the material cannot therefore exceed 5% of the total conservation volume.



## PRODUCT REFERENCE SENSOR

Product reference sensor is an additional sensor meant to simulate the temperature at the heart of the product. Its position varies according to the model. Pay attention not to place material and load in direct contact with the product reference cylinder, to avoid having a false reading.

Its value is visible in the "Product" box of the interface homepage, and its temperature limits are on the side.

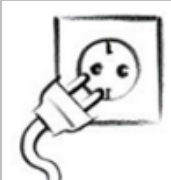
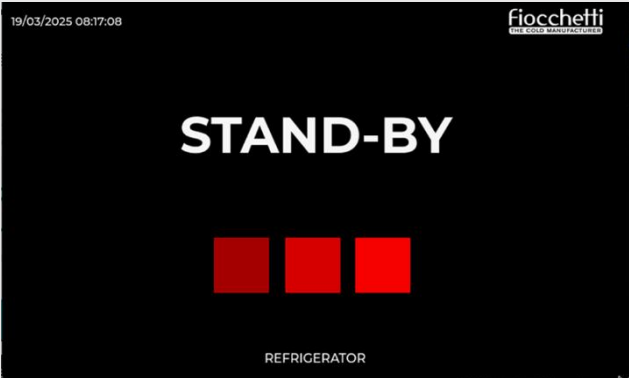
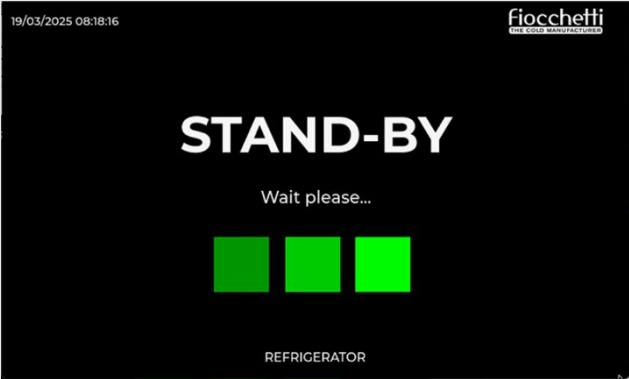


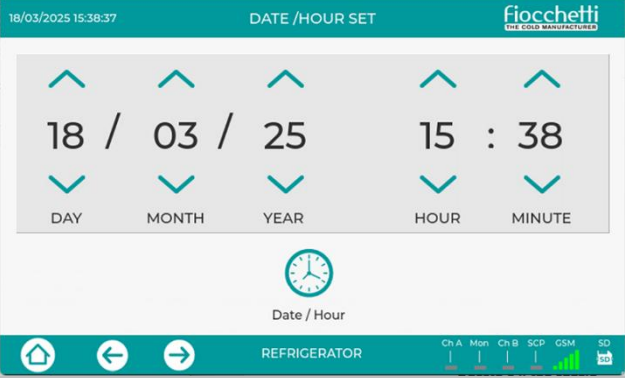
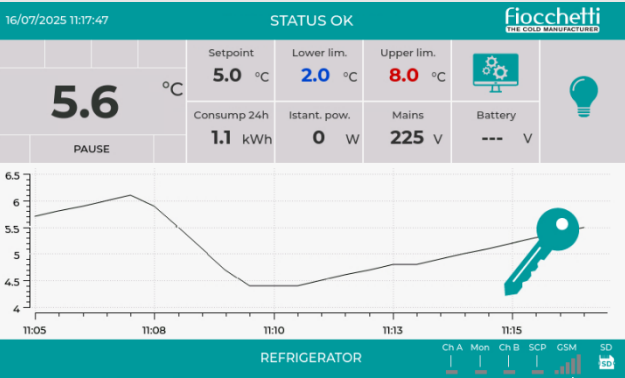
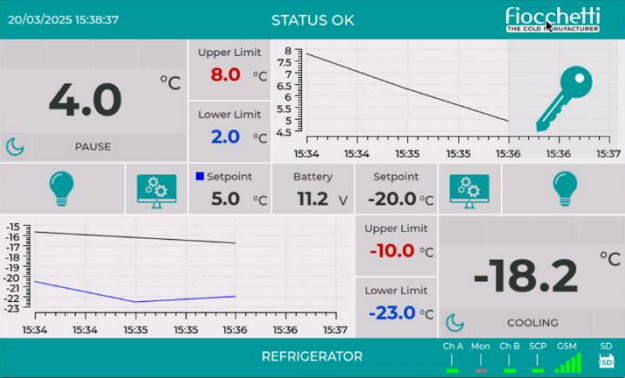
# 5 USER INTERFACE OPERATION

## ECT-F TOUCH CONTROL OPERATION

### FIRST TIME SWITCHING ON

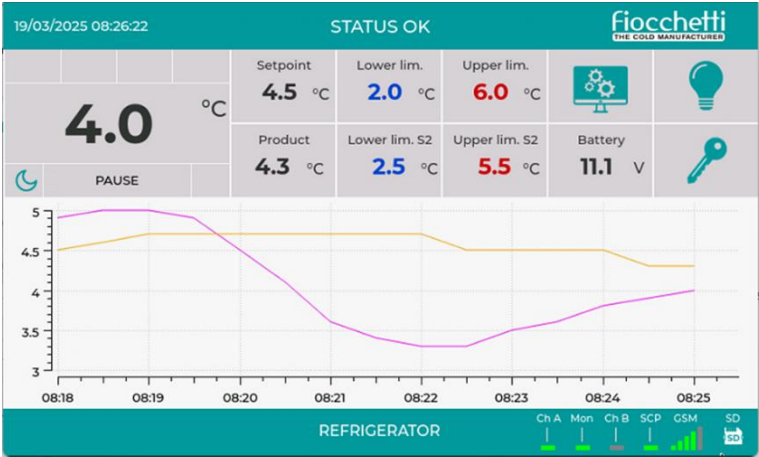
To turn on the equipment for the first time, follow the instructions below.

|    |                                                                                                                                                             |                                                                                                                                                                                                |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Connect the appliance plug to the power outlet                                                                                                              |                                                                                                             |
| 2. | Turn on the refrigerator by pressing in sequence the three red squares from left to right (by performing the correct sequence, the squares will turn green) | <div></div> <div></div> |
| 3. | Set language, date, and time                                                                                                                                |                                                                                                            |

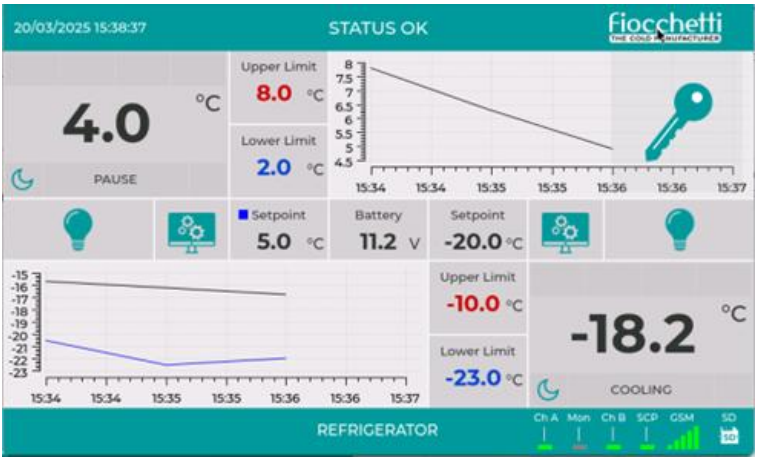
|    |                                                                                |                                                                                                                                                                                                                                                                           |
|----|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                |                                                                                                                                                                                         |
| 4. | After setting the required data, the interface will appear on the main screen: | <p>For single temperature range appliances:</p>  <p>For double temperature ranges appliances:</p>  |

MAIN INTERFACE

SINGLE-TEMPERATURE VERSION WITH  
PRODUCT TEMPERATURE SIMULATOR  
SENSOR



DUAL-TEMPERATURE VERSION (2T)



HARDWARE INTERFACE

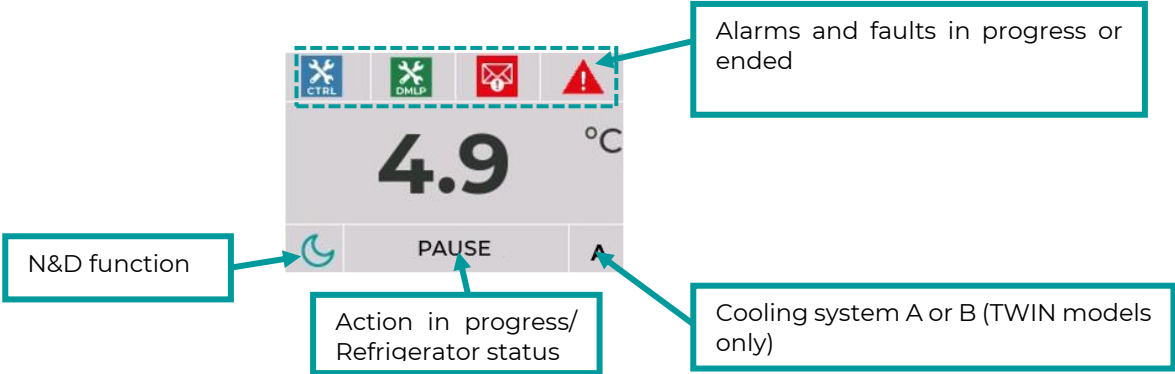
**USB port** for software updates, programming and for the back-up of temperatures recording data

**SIM Card slot** for GSM module (optional)



**SD card** for historical logging of system functional data, temperatures recording and technical documentation in digital format

INFO PANEL 1

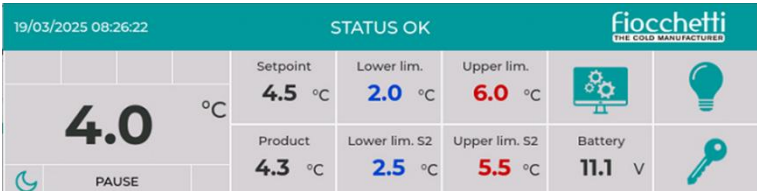


| STRING   | CURRENT FEATURE                                                                  |
|----------|----------------------------------------------------------------------------------|
| PAUSE    | The compressor is off, waiting to be turned on again to cool down                |
| COOLING  | The compressor is switched on to reach the set temperature (setpoint)            |
| DEFROST  | The fridge is defrosting by heating the evaporator                               |
| DRIPPING | Last phase of defrosting, allowing the evaporator to drip                        |
| HEATING  | Heating is active (for certain models only)                                      |
| WAITING  | Waiting for communication with control board, or a blocking fault is in progress |

INFO PANEL 2

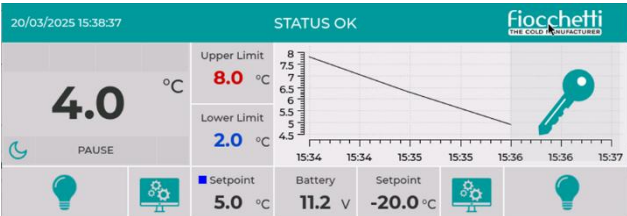
Info Panel 2 displays all settings (Setpoint, Lower and Upper Alarm Limits) and information about the operation of the equipment.

**SINGLE-TEMPERATURE  
VERSION WITH PRODUCT  
TEMPERATURE SIMULATOR  
SENSOR**

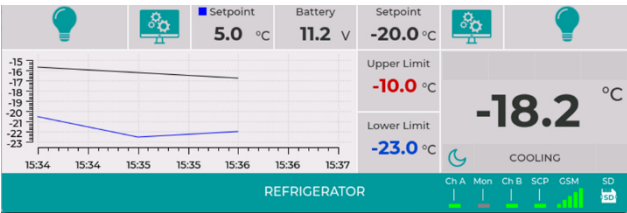


**DUAL-TEMPERATURE  
VERSION (2T)**

Chamber  
A

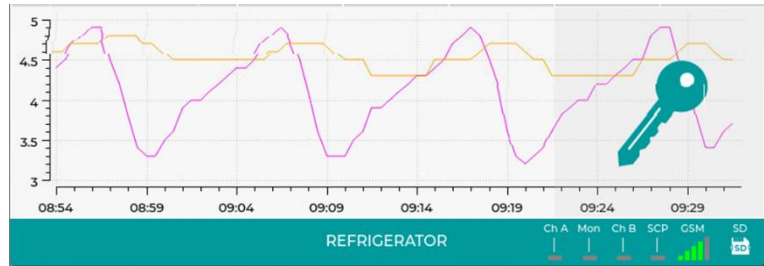


Chamber  
B



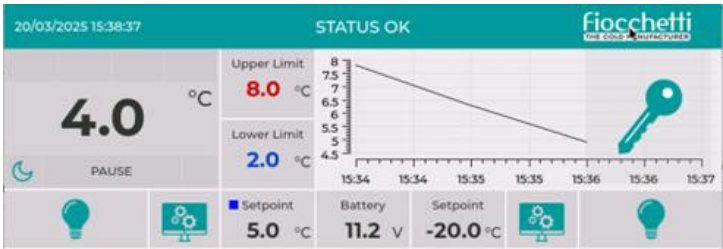
GRAPHIC PANEL

**SINGLE-TEMPERATURE  
VERSION WITH PRODUCT  
SIMULATOR SENSOR**

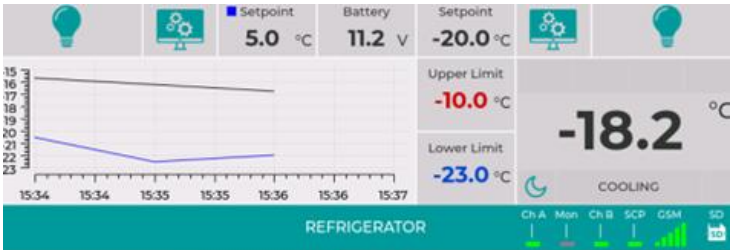


Chamber A

**DUAL-TEMPERATURE  
VERSION (2T)**

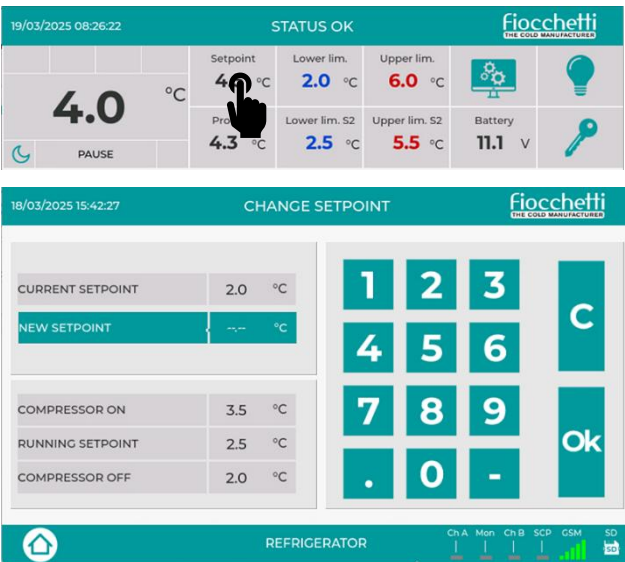


Chamber B



CHANGE SETPOINT

Click on the Setpoint value to access the dedicated section



If the user password protection is activated, you will be required a password to enter this section

On the "Setpoint Setting" screen, type the value you want to set, then confirm with . Click the "home" symbol



to return to the main screen. In addition to the Setpoint value, the "Setpoint Setting" screen displays information on the compressor on/off differential and the operating Setpoint (which differs from the "Current Setpoint" when the "Night & Day" function is activated).



Whenever you change the temperature of the Setpoint, you must check if the Inf/Sup alarm limits are still adequate. If necessary, they must be modified

SETPOINT EDITING LIMITS

In the previous paragraph, we explained how to change the Set-Point value of the device. These settings, however, have limits imposed by the manufacturer.

Below is a table showing the factory limits for each model; within this range, the user can change the set-point temperature.

| MODEL                                               | Can be set between                                             | Factory                                         |
|-----------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------|
| EMOTECA                                             | +3°C ; +5°C<br>or<br>+21°C ; +23°C*                            | +4°C<br>or<br>+22°C*                            |
| EMOTECA 2T<br>(chamber A/<br>chamber B)             | +3°C ; +5°C                                                    | +4°C                                            |
| EMOTECA TWIN                                        | +3°C ; +5°C                                                    | +4°C                                            |
| PLASMA-<br>SUPERARTIC                               | -20°C ; -40°C                                                  | -35°C                                           |
| PLASMA-VISION                                       | -10°C ; -20°C                                                  | -20°C                                           |
| PLASMA VISION<br>2T (Chamber<br>A/Chamber B)        | +3°C ; +5°C<br>compartment A<br>-10°C ; -20°C<br>compartment B | +4°C<br>compartment A<br>-20°C<br>compartment B |
| PLASMA FREEZER                                      | -10°C ; -25°C                                                  | -20°C                                           |
| PLASMA-LABOR<br>2T(Chamber<br>A/Chamber B)          | +3°C ; +5°C<br>compartment A<br>-10°C ; -25°C<br>compartment B | +4°C<br>compartment A<br>-20°C<br>compartment B |
| PLASMA<br>SUPERARTIC 2T<br>(Chamber<br>A/Chamber B) | +3°C ; +5°C<br>compartment A<br>-20°C ; -40°C<br>compartment B | +4°C<br>compartment A<br>-30°C<br>compartment B |

\*on request for models from 100L to 500L

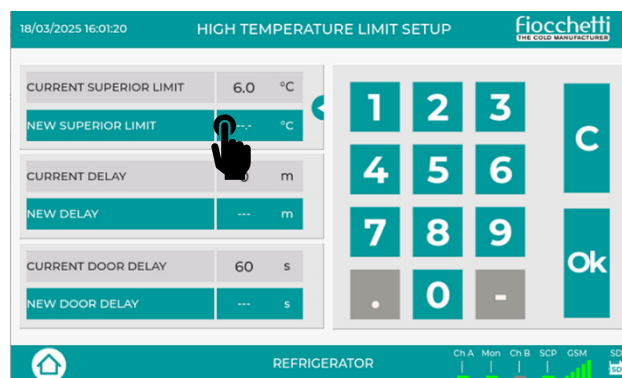
**The storage duration period of blood cells or donated breast milk is closely linked to the set temperatures.**



Fiocchetti declines all responsibility if the staff in charge is not adequately trained on storage specifications.

## LOWER/UPPER ALARM LIMITS.

Touch the value of the lower or upper limit to access the dedicated section.



If the user password protection is activated, you will be required to access this section

On the "SETUP LOWER LIMIT/HIGHER TEMPERATURE" screen, select "new lower limit" or "new upper limit" and type the value you want to set

Ok

on the keyboard, and confirm with



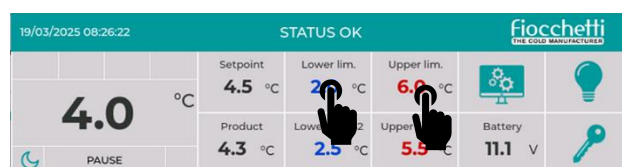
"home" symbol to return to the main screen.

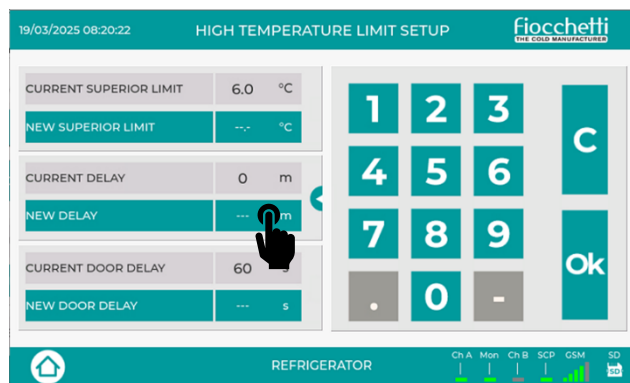


We recommend setting appropriate limit values with respect to the setpoint to avoid unwanted alarms.

## ALARM REPORTING DELAY

Touch the value of the lower or upper limit to enter the dedicated section.





On the "SETUP TEMPERATURE LOWER/HIGHER LIMIT" screen, select "new delay time" and type the value you want to set on the keypad, then confirm

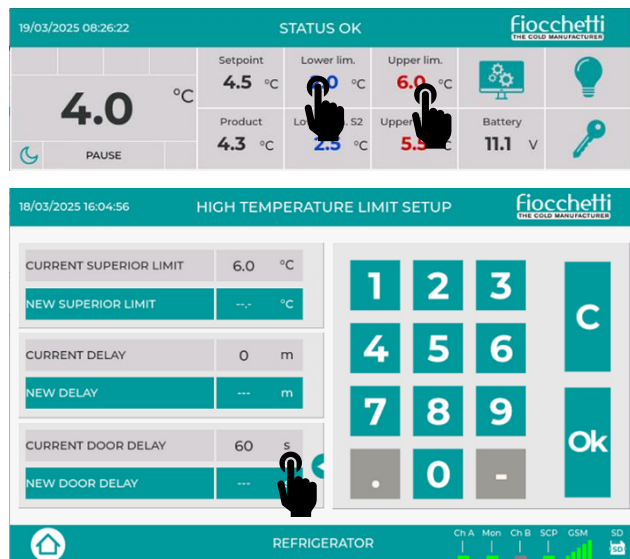
with , click the "home" symbol  to return to the main screen.



If the user password is active you will be asked for a password to enter this section

## DOOR OPEN SIGNAL DELAY

Click on the value of the lower or upper limit to enter the dedicated section.



On the "SETUP LIMIT IN/SUP. TEMPERATURE" screen, click on "New door delay" and type the value you want to set on the keypad and confirm with the key . Click the "home" symbol  to return to the main screen.



If the user password protection is activated, you will be required a password to enter this section

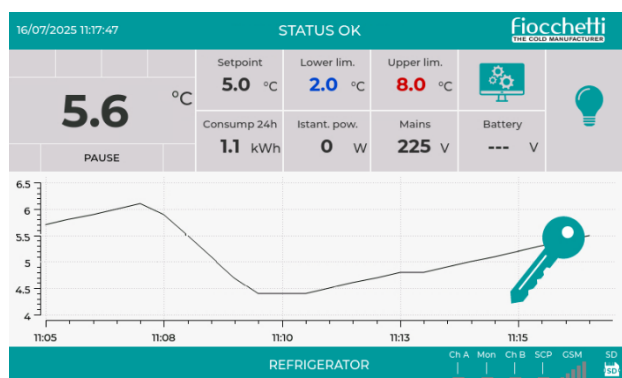
## ELECTRONIC LOCK RELEASE

To protect against unwanted access, the equipment can be equipped with an electric lock. The door is

opened by touching the "key" icon .



If User Password Control is enabled, you will be required a password to open the door



If the device is switched off (STAND-BY state), the lock opens automatically.



In the event of a power failure, if the door status is open, the door remains open. If, on the contrary, the door is closed, it remains closed, and you must proceed with the manual release of the lock.

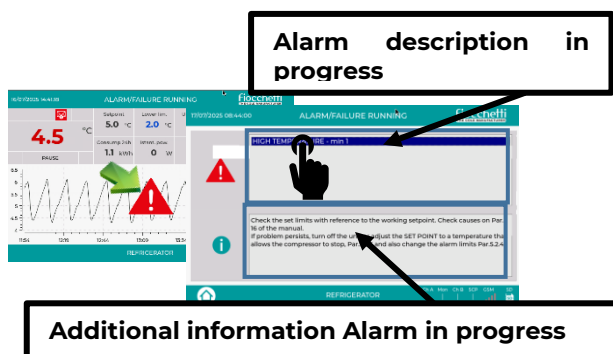
## EVENT IN PROGRESS REPORTING

In the event of an alarm or fault in progress, the icon



will appear on the display, and the equipment

will give an acoustic signal. Touch the icon  to silence the audible alarm in progress and read the description of the alarm type. By selecting the description of the type of fault you can get more information and guidance on how to solve the problem.



Return to the homepage, clicking on . The icon



will appear above the temperature indication to remind the user that the alarm is still in progress. If the fault or alarm persists, after 15 minutes the audible alarm will be repeated, and the large icon will



reappear. Even if the alarm returns, the user continues to be visually notified of the same on the homepage via the



"temperature alarm list" icon, as well as acoustically, every two minutes; in the event of a fault,

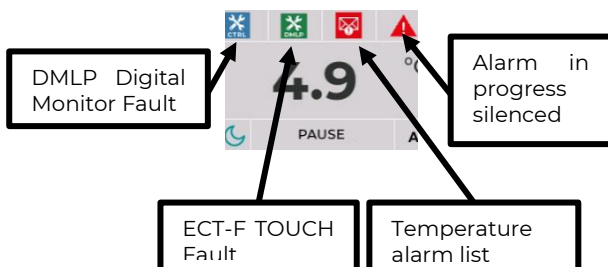


via the CTRL or DMLP icon.

When the temperature alarm ends, touching the



icon shows the alarm that has occurred, its duration and the temperature peak reached, and ends the signal. In the event of a fault, refer to the procedures at the end of the manual.



## DATA LOGGING

The system performs a double recording of all the operating data of the equipment on a non-modifiable database; the first on an internal memory that can be exported via USB support, and the second on an SD card.

Sampling has a frequency of 30 seconds and records both temperatures and events, thus allowing the historical logging to be saved within the display board, or on a PC.

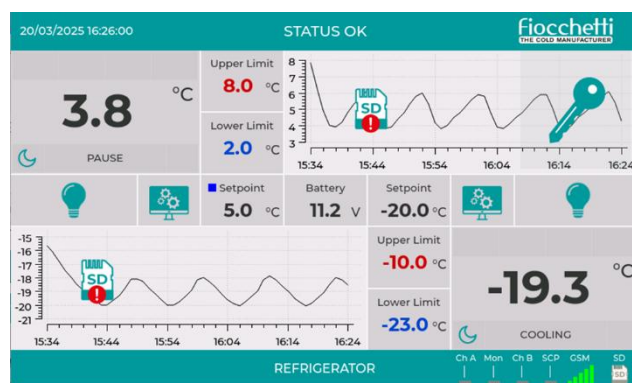
Using the PC software supplied, it is possible to extrapolate graphs and data tables, simply by following the instructions in the dedicated paragraph of this manual.

If the SD card is not recognized, the display beeps every 2 minutes, and the SD icon appears on the



display.

In this condition, registration does not take place.



The SD card lever must not be in the "LOCK" position



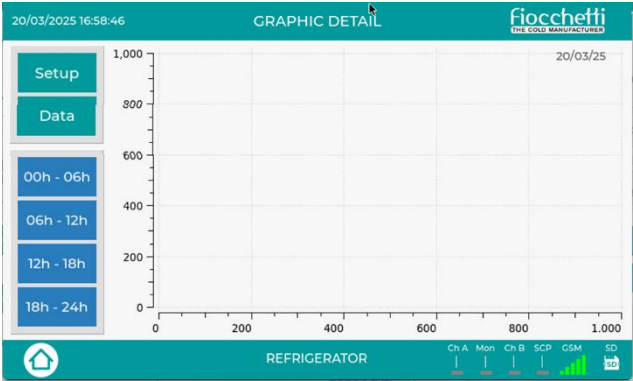
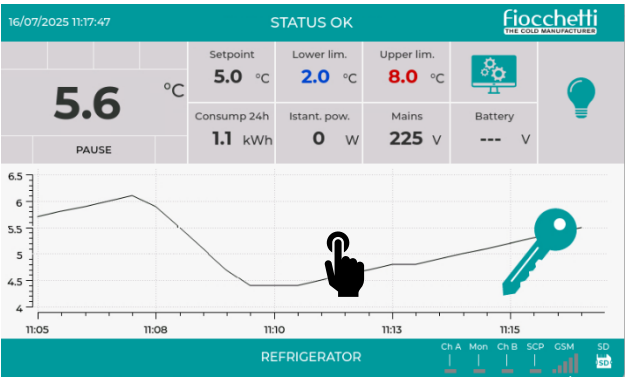
We suggest the replacement of the SD memory every 5 years to safeguard the integrity of the stored information.



You cannot swap the SD card of two devices as it will not be recognized, but, in case of replacement, you can insert a blank SD card.

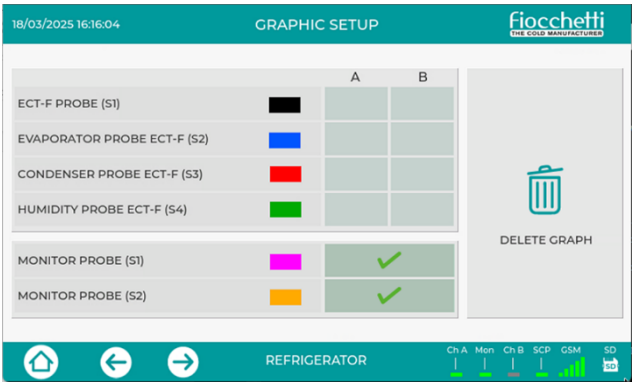
# HISTORICAL TEMPERATURE CHART

On the homepage the temperature graph of the last 6 hours is always displayed  
By tapping on the graph at any point you can detail the data thanks to the "Chart Detail" section.



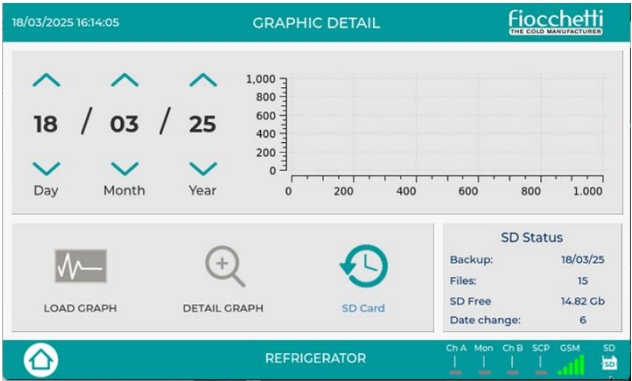
Select the probes you want to view

SETUP

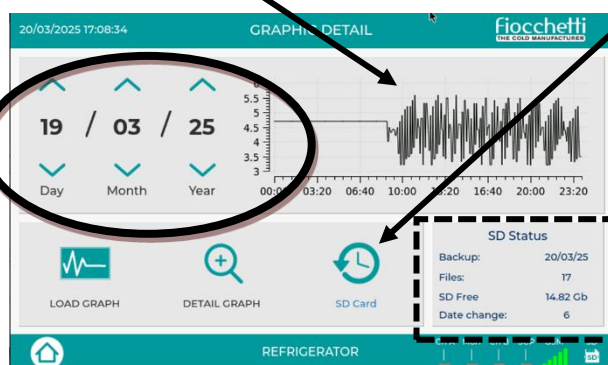


This function can be used to trace older thermal recording data.

DATA



## 24h Chart Preview



The symbol allows you to switch from the data contained in the SD Card to those of the internal memory (flash memory, 1 year), in case of momentary absence, loss or failure of the SD Card.

## SD INFO:

- Last date Back up
- No. of files contained
- Free space
- No. of folders present, resulting from date/time changes made by user

Select the day/month/year you want to view and tap on the "Load Chart"  item: a preview of the daily graph (24 hours) will be loaded on the right side of the display. By selecting the "Detail Graph"  item, you can view chart details by time slots.

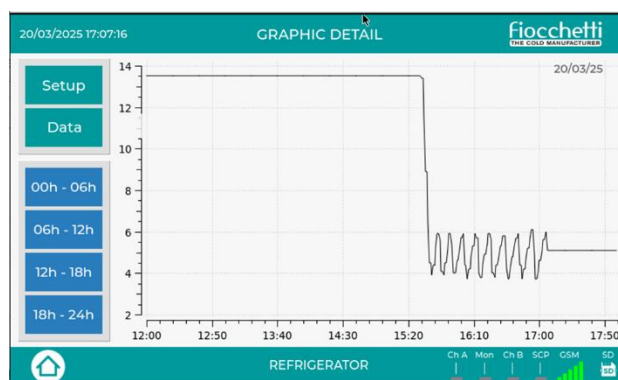
Choose one of the icons on the side to view the details of the selected time slot.

00h - 06h

06h - 12h

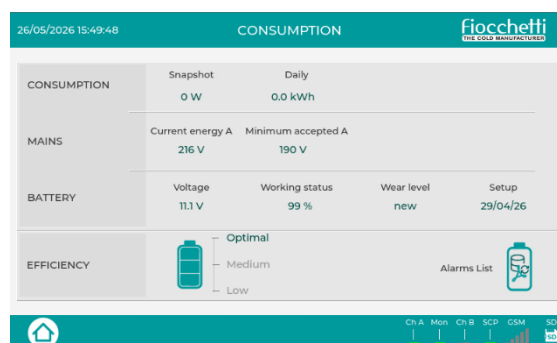
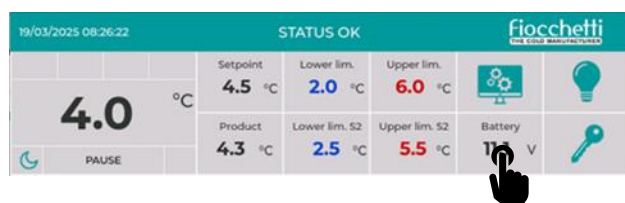
12h - 18h

18h - 24h



## ENERGY PANEL

Click on the "Battery" value to access the dedicated section.



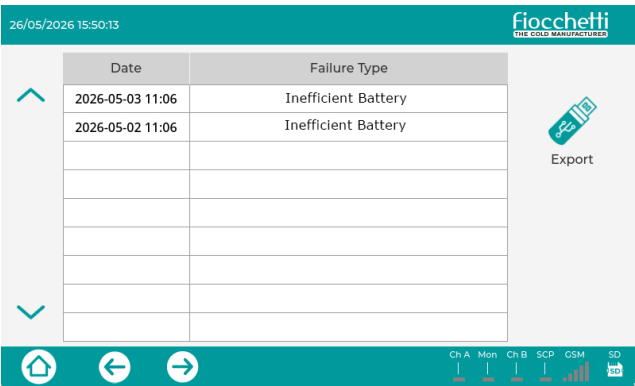
On the "ENERGY" screen, you can view the following information:

- Instant device consumption
- Daily device consumption (last 24 hours)
- Instant mains voltage

- Minimum value for signalling "Low mains voltage"
- Backup Battery Voltage (if battery is present)
- Battery Backup functional status (if battery is present)
- Battery Backup Wear (if battery is present)
- Backup Battery Installation Date (if battery is present)



By clicking on  icon, you will access to the list of events related to batteries (if installed).



| Date             | Failure Type        |
|------------------|---------------------|
| 2026-05-03 11:06 | Inefficient Battery |
| 2026-05-02 11:06 | Inefficient Battery |
|                  |                     |
|                  |                     |
|                  |                     |
|                  |                     |
|                  |                     |
|                  |                     |



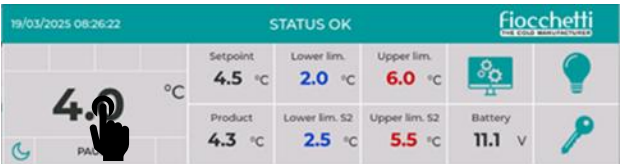
By clicking on export  and inserting a USB stick, you can export the data in pdf format.



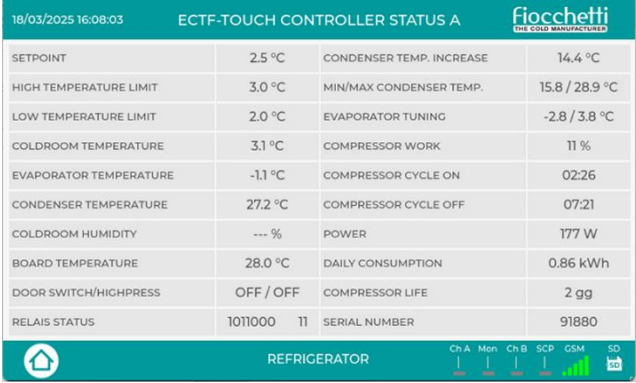
Click the "home" symbol  to return to the main screen.

## ECT-F STATUS PANEL

By touching the current temperature value, you will enter a panel called "ECT-F status" panel, which instantly shows all information on the operation of the device, and which is also useful to identify any current problem.



| Setpoint | Lower lim.    | Upper lim.    |
|----------|---------------|---------------|
| 4.5 °C   | 2.0 °C        | 6.0 °C        |
| Product  | Lower lim. S2 | Upper lim. S2 |
| 4.3 °C   | 2.5 °C        | 5.5 °C        |
| Battery  | 11.1 V        |               |



| SETPOINT               | 2.5 °C     | CONDENSER TEMP. INCREASE | 14.4 °C        |
|------------------------|------------|--------------------------|----------------|
| HIGH TEMPERATURE LIMIT | 3.0 °C     | MIN/MAX CONDENSER TEMP.  | 15.8 / 28.9 °C |
| LOW TEMPERATURE LIMIT  | 2.0 °C     | EVAPORATOR TUNING        | -2.8 / 3.8 °C  |
| COLDROOM TEMPERATURE   | 3.1 °C     | COMPRESSOR WORK          | 11 %           |
| EVAPORATOR TEMPERATURE | -1.1 °C    | COMPRESSOR CYCLE ON      | 02:26          |
| CONDENSER TEMPERATURE  | 27.2 °C    | COMPRESSOR CYCLE OFF     | 07:21          |
| COLDROOM HUMIDITY      | --- %      | POWER                    | 177 W          |
| BOARD TEMPERATURE      | 28.0 °C    | DAILY CONSUMPTION        | 0.86 kWh       |
| DOOR SWITCH/HIGHPRESS  | OFF / OFF  | COMPRESSOR LIFE          | 2 gg           |
| RELAIS STATUS          | 1011000 11 | SERIAL NUMBER            | 91880          |

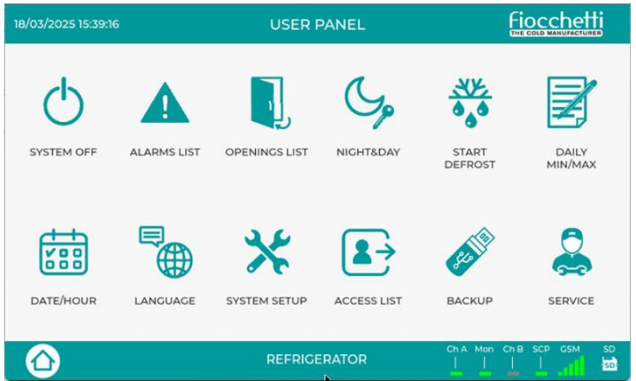
## USER MENU



| Setpoint | Lower lim.    | Upper lim.    |
|----------|---------------|---------------|
| 4.5 °C   | 2.0 °C        | 6.0 °C        |
| Product  | Lower lim. S2 | Upper lim. S2 |
| 4.3 °C   | 2.5 °C        | 5.5 °C        |
| Battery  | 11.1 V        |               |



Touch the icon  to access the dedicated section.



| SYSTEM OFF | ALARMS LIST | OPENINGS LIST | NIGHT&DAY   | START DEFROST | DAILY MIN/MAX |
|------------|-------------|---------------|-------------|---------------|---------------|
| DATE/HOUR  | LANGUAGE    | SYSTEM SETUP  | ACCESS LIST | BACKUP        | SERVICE       |

In this section, several operations are present:

| ICONS                                                                                | DESCRIPTION                                                                                                                           |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|  | Allows you to turn off the equipment ( <u>Password protected if this is active</u> )                                                  |
|  | Allows the display of the last 32 recorded alarms                                                                                     |
|  | Allows the display of the number of door opening during the last 32 days                                                              |
|  | Allows access to the Night & Day function and the electric lock management options ( <u>Password protected if this is activated</u> ) |

|                                                                                     |                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|    | Performs manual defrosting                                         |
|    | Access the table of daily minimum and maximum temperatures         |
|    | Allows to change the date and time                                 |
|    | Allows to select the desired language                              |
|    | Allows access to User Customization Set Up                         |
|    | Access the list of registered users and related authorizations.    |
|   | Allows you to download a backup file of recorded temperatures data |
|  | Enter the SERVICE area ( <u>Always password protected</u> )        |

## TURN OFF THE DEVICE

To turn off the refrigerator touch the icon  and

then select the "power off" icon . At this point you will be asked for further confirmation: to confirm

press , or press  to cancel.

 If the user password check is active, you will be asked for a password to enter this section

## ALARM LIST

To enter the alarm list, click on the icon  and

then select .

| 20/03/2025 17:02:29 LIST OF ALARMS ECT-F A |               |               |          |                  | fiocchetti<br>THE COLD MANUFACTURERS |
|--------------------------------------------|---------------|---------------|----------|------------------|--------------------------------------|
| Alarm                                      | Date of begin | Hour of begin | Duration | Peak temperature |                                      |
| High temperature                           | 20/03/25      | 11:20         | 173 min  | 6.1 °C           |                                      |
| High temperature                           | 19/03/25      | 15:36         | 999 min  | 5.6 °C           |                                      |
| High temperature                           | 19/03/25      | 08:35         | 319 min  | 5.6 °C           |                                      |
| High temperature                           | 19/03/25      | 08:11         | 5 min    | 4.5 °C           |                                      |
| High temperature                           | 19/03/25      | 07:59         | 9 min    | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 07:47         | 9 min    | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 07:35         | 10 min   | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 07:23         | 10 min   | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 07:11         | 10 min   | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 06:59         | 10 min   | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 06:46         | 10 min   | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 06:34         | 10 min   | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 06:21         | 10 min   | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 06:08         | 10 min   | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 05:56         | 10 min   | 5.0 °C           |                                      |
| High temperature                           | 19/03/25      | 05:43         | 10 min   | 5.0 °C           |                                      |

The alarm list screen displays:

- Alarm type
- Start date and time
- Event duration
- Critical temperature reached

| MESSAGE                               | TYPE OF FAULT IN PROGRESS                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>HIGH TEMPERATURE</b>               | High temperature inside the compartment                                                                     |
| <b>LOW TEMPERATURE</b>                | Low temperature inside the compartment                                                                      |
| <b>HIGH TEMPERATURE FOR OPEN DOOR</b> | High temperature inside the compartment due to incorrect door closing or too frequent and prolonged opening |
| <b>HIGH TEMPERATURE FOR BLACKOUT</b>  | High temperature inside the compartment caused power failure                                                |

## DOOR OPENING LIST

To enter the door opening list, click on the icon 

and then select .

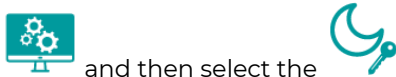
[illegible]

The door opening list page displays the door opening events of the last 32 days with an indication of:

- Opening date
- Total duration achieved in the day
- Total number of openings of the day
- Number of critical openings of the day (with a duration > 30 seconds)

## NIGHT & DAY FUNCTION

To enter the Night & Day function, click on the icon



This page controls two functions:

## Night & day function

The Night & Day function achieves significant energy saving during periods of less frequent use of the appliance (e.g. night hours, closing day, holidays, etc.). The function allows you to lower the brightness of the display, of the logo, and of the inner LED lights (changing them to blue colour but still permitting the display of the stored product), and to raise the setpoint temperature by a predefined value (from 0.1°C to 2°C max).

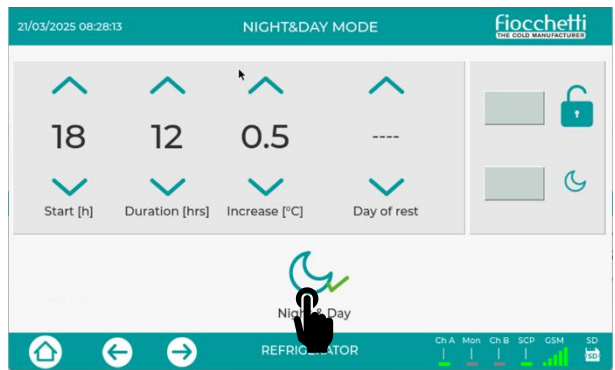
The Night & Day function can be activated in different ways:

**Time Mode:**

Choose the start time of the Night & Day function, the duration and the desired increment for the Setpoint



and touch the icon  to activate the function. Every day, at the set time, and for the required duration, the refrigerator will go into Night & Day operation.

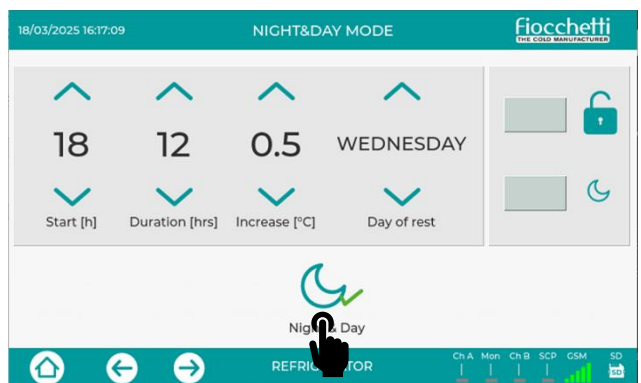


### Time mode and day off:

Choose the start time, duration and set point increment, choose the rest day and touch the icon



to activate the Night & Day function. With these choices active, the Night & Day function will be activated every day at the set time and for the duration requested; on the rest day, it will be active throughout the day. The function automatically deactivates.



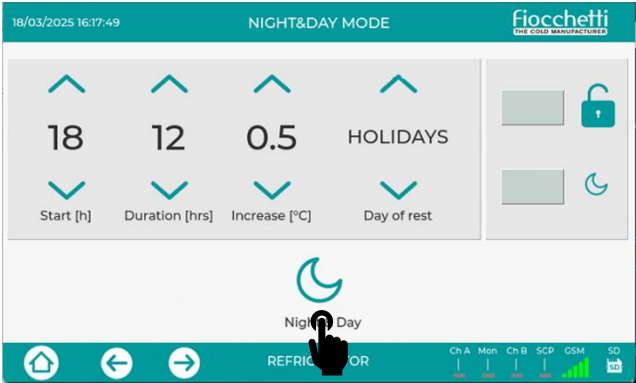
### Vacation Mode:

Enter HOLIDAYS as a rest day and touch the icon



to activate the Night & Day function. This will be immediately activated and will remain so until manually disabled by clicking on the icon again



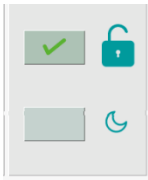


If the "User Password Check" function is active, accessing the Night & day function requires typing the password **0000**

Automatic management of electric locks

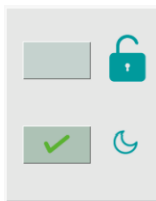
This feature allows the user to configure the electronic lock according to its optimal use. There are two more configuration in addition to the standard touch opening:

- Lock always open → flag  the box next to the icon  and exit with .



- Lock with automatic opening and closing, according to the Night & Day settings: always open during the hours of use of the equipment and always closed during the hours of activation of the Night & Day. It will still be possible to open

the door by touching the icon. → flag  the box next to the icon  and exit with the key



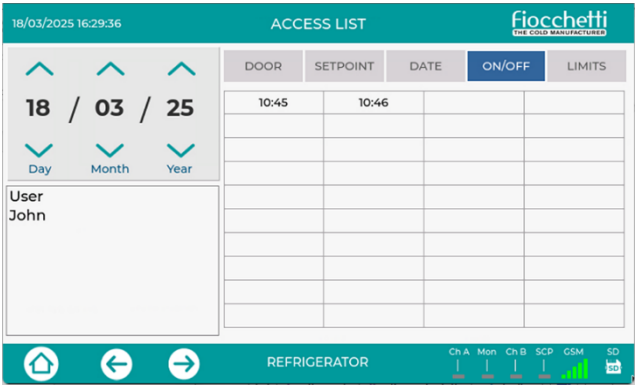
ACCESS LIST



To enter the door access list, click on , and then



select the icon . In this page you will see how many door openings, setpoint changes, limit changes and shutdowns/turns on have been made by each of the users created, on a given day. Select the day, user, and function involved to view the time of the action performed.



DEFROSTING

Refrigerated cabinets with ECT-F TOUCH controller perform an "intelligent" defrost management: defrost is made automatically only if necessary. This drastically reduces the number of defrosts, with substantial energy savings; for this reason, the user does not need to perform manual defrosting. Within the user panel, however, there is the chance (only if the conditions exist) to perform a manual



defrost by clicking on the icon .

DAILY MIN/MAX TABLE

This table displays the minimum and maximum daily temperatures of the probes recorded by the controller. Depending on the model, there will be data from one or more probes. The page will first display the data related to the current month, but changing the month or year and



clicking on  will display the data of the selected month.

By clicking on export  and inserting a USB stick, you can export the data in pdf format.

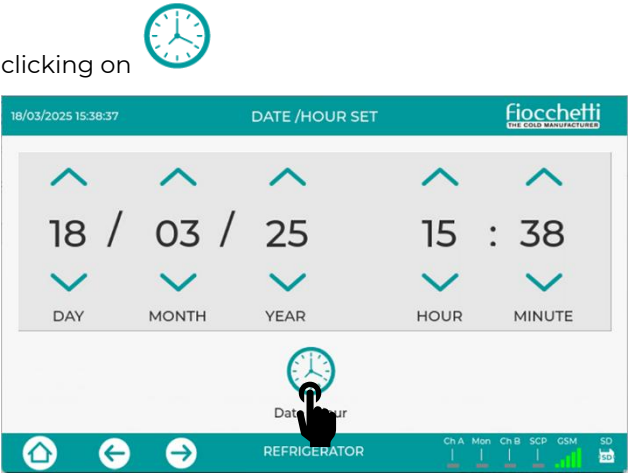


| Date       | S1 [A] |     | S1 [B] |       | S1 Mon |     | S2 Mon |     |
|------------|--------|-----|--------|-------|--------|-----|--------|-----|
|            | max    | min | max    | min   | max    | min | max    | min |
| 19/03/2025 | 5.2    | 2.6 | ---    | ---   | 5.0    | 3.3 | 4.7    | 4.2 |
| 18/03/2025 | 5.9    | 0.8 | ---    | ---   | 5.4    | 1.4 | 5.1    | 2.6 |
| 17/03/2025 | 4.5    | 2.8 | 0.0    | -20.2 | 5.4    | 3.3 | 5.1    | 4.5 |
| 16/03/2025 | 6.5    | 3.6 | -17.9  | -20.2 | ---    | --- | ---    | --- |
| 15/03/2025 | 6.5    | 3.5 | -17.9  | -20.2 | ---    | --- | ---    | --- |
| 14/03/2025 | 0.0    | 2.6 | 0.0    | -20.2 | 5.4    | 3.2 | 5.1    | 2.8 |
| 13/03/2025 | 10.2   | 2.7 | ---    | ---   | 9.7    | 3.2 | 9.3    | 2.8 |
| 12/03/2025 | 3.7    | 3.7 | ---    | ---   | ---    | --- | ---    | --- |
| 11/03/2025 | 5.2    | 5.0 | ---    | ---   | ---    | --- | ---    | --- |

### SET DATE/TIME

This panel allows you to change the system date and time.

Once you have set the desired values, confirm by



In order not to overwrite existing data, changing the date and time creates a new folder in the data storage directory. For this reason, when downloading data via USB port, only those stored after the date/time change will be downloaded.

### CHANGE LANGUAGE

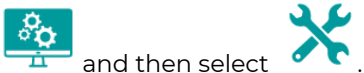
This mask allows you to choose the desired system language.

Click on the language flag to select it.

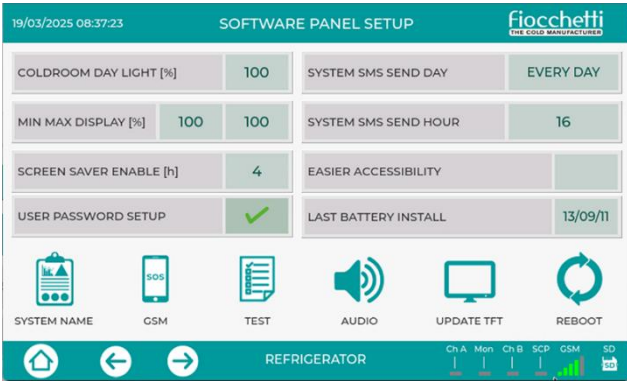


### SYSTEM SETUP

To enter the system setup menu, touch the icon

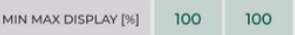


Through this menu the user may customize some optional functions of the equipment.





Change the brightness of the inner light (from 0 to 100%)



Change the brightness of the display (MAX for normal operation, MIN for Night & Day function)



Screen saver activation a certain number of hours (from 1 to 12 hours, or never)

USER PASSWORD SETUP

Enable the "User Password Check" function (use password 0000 to activate/deactivate). After confirmation, the general password will be 1234.

SYSTEM SMS SEND DAY

EVERY DAY

SYSTEM SMS SEND HOUR

16

System SMS sending day and time setting (only if GSM Communicator module is installed)

EASIER ACCESSIBILITY

This function increases the dimensions of the icons for opening the door and turning on/off the light on the HOMEPAGE

LAST BATTERY INSTALL

13/09/11

Date of last battery installation

| ICON                                                                                | FUNCTION                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Allows you to assign a name to the equipment: this name will also be displayed on the Homepage.                                                                           |
|  | Allows you to enter a GSM number to send an automatic SMS in the event of a system failure (only with additional GSM module)<br>Always enter the country code (e.g. +39). |
|  | Tests menu on the device. See section 5.2.5.4 for more details.                                                                                                           |



Permanently enables and disables the audio signals of the equipment

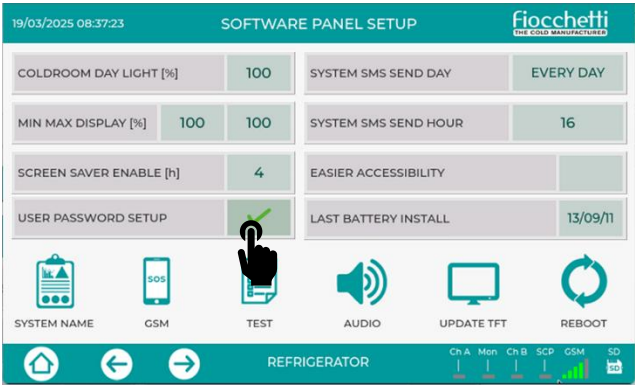


Performs a TFT update (to be used only upon instructions of the technical service)



Performs an operating system restart

PASSWORD ENABLING



Enabling the "user password setup"  from the System Set Up menu (password 0000 to validate activation) protects the appliance from the modification of significant parameters by unauthorized personnel.

Passcode will protect following functions:

- Turning on
- Switching off
- Temperature Setpoint Change
- Change Alarm Info and limits
- Door opening (if the device is equipped with an electric lock)
- Change date/time
- Access to the Night & Day menu



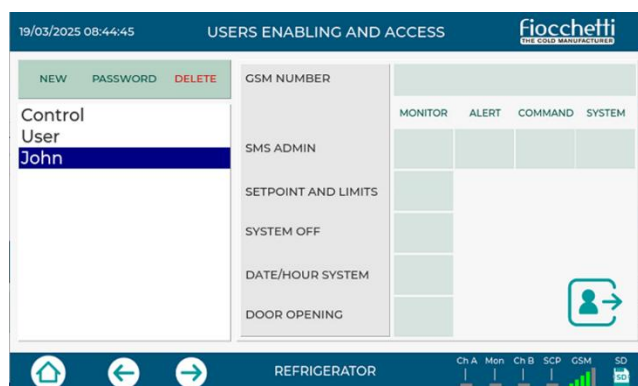
The generic password of the generic USER is 1234 and can only be changed by accessing the "Access Control" section into Service menu.

## CREATION OF ADDITIONAL USERS

It is advisable contacting FIOCCHETTI's customer support before performing this operation.

Enter the "User Management" section within the

service menu  by clicking on the icon  to create users with personalized access to the different functions of the equipment.



Within the "USER MANAGEMENT AND AUTHORIZATIONS" section there are two default users. The first is named CONTROL, and the second is named USER.

The **CONTROL** user is a generic user with the function of administrator to enable and disable the Password management from the SYSTEM SETUP menu. This user does not have any login credentials, as he is only authorized to change the password. The password for managing the CONTROL user is 0000, but by entering this menu and selecting USER, it will be possible to change this password as well.

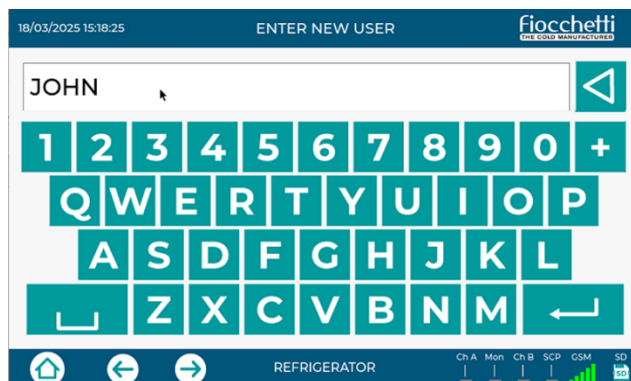


Warning: Password 0000 is required by SYSTEM SETUP menu of the User Panel when you choose to activate the USER PASSWORD CHECK.

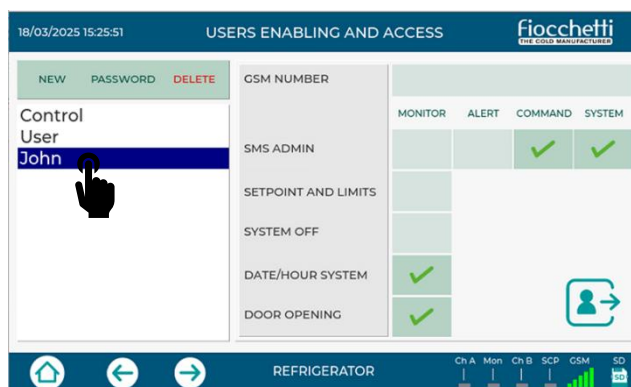
The second is the USER: it is enabled by default to do everything via password 1234.

You can create new users using the "NEW" key, typing the name (e.g. JOHN) on the keyboard;

confirming with , you will be asked to enter a specific password for the new user.



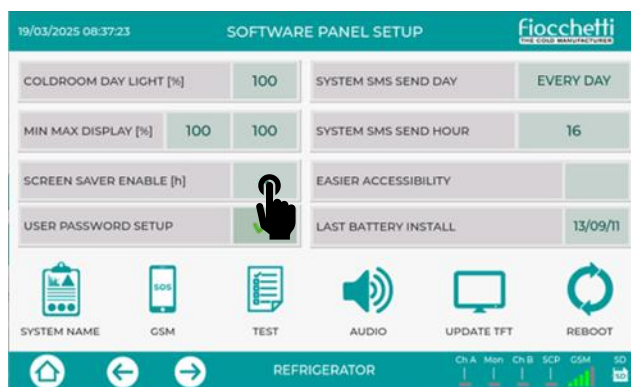
Select the name of the user created (which will turn blue) and enable or disable the functions for this user (changing the setpoint and limits, turning the refrigerator off and on, changing the system date and time, opening etc.).



In case password is lost, contact Fiocchetti technical support to recover it.

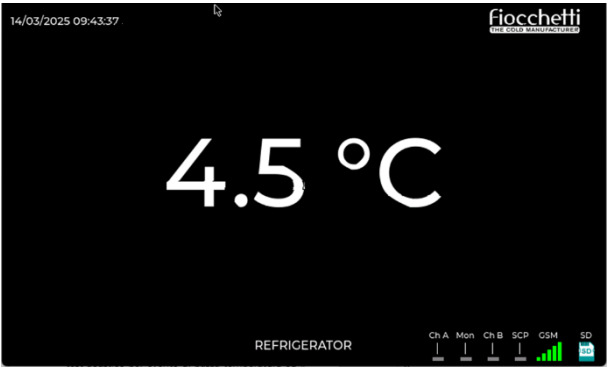
## SCREEN SAVER

By entering the Software Setup Panel, you can enable a screensaver that will automatically activate after a certain period of non-use of the screen based on the value set.



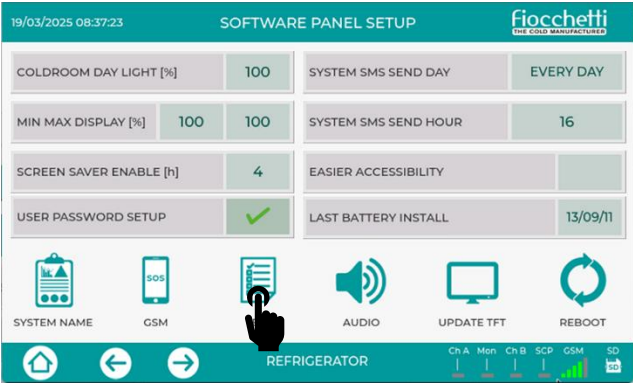
The screensaver will show the temperature of the machine in large letters on a black background, making the data easily visible even from a distance.

The screensaver will disappear as soon as the screen is touched.

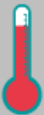


ALARM TEST FUNCTION

The test program allows you to verify the operation of some safety signals, such as the acoustic test for high temperature event, the acoustic test for low temperature event and the remote alarm test for acoustic signalling and activation of dry contacts.



During these tests, the refrigerator operates normally and the temperature inside the cold room remains within the predetermined limits. The following table describes the functions of this menu.



By selecting this icon, the probe displays an artificially increasing temperature until it exceeds the set high temperature limit. The process takes about a minute. As soon as this limit is exceeded, the acoustic signal is repeated three times and the dry contact is activated, just as it would do in the event of a high temperature alarm. At the end of the test, the temperature returns close to the operating value of the device; you can



now exit the test menu or select another function to test. The simulated event is saved in the alarm list and on the SD card, under the heading "SIMULATED HIGH TEMP".



By selecting this icon, the probe displays an artificially decreasing temperature until a value below the low temperature alarm limit is reached. The process takes about a minute.

As soon as this limit is exceeded, the acoustic signal is repeated three times and the dry contact is activated, just as it would do in the event of a low temperature alarm. At the end of the test, the temperature returns close to the operating value of the device; you can now exit the test menu or select another test.

The simulated event is saved in the alarm list and on the SD card, under the heading "SIMULATED LOW TEMP".



This icon allows you to perform a functional test on the device's audio buzzer by activating an acoustic signal and switches the dry contact (remote alarms) for 10 seconds. The dry contact is located on the electronic board, or, as an optional, on the external terminal board at the back of the cabinet.

The remote alarm test is available on all models, while the high and low temperature tests are only for those equipped with DMLP Digital Monitor. When the test is not available these two icons will appear grey and not selectable.

High and low temperature tests can only be performed under optimal and failure-free equipment operating conditions. If the test is unsuccessful,



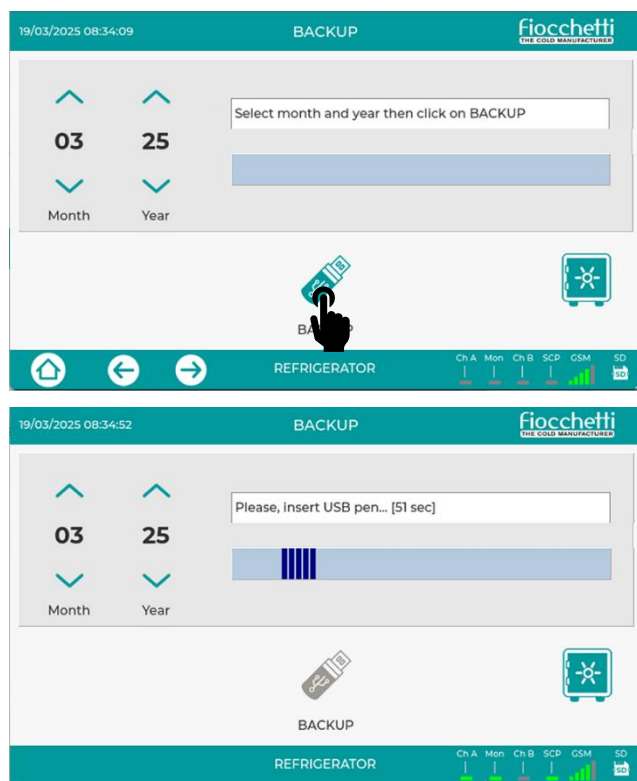
a red triangle will be displayed  and you will be able to return to the homepage to check for failures/alarms.

The visualization of this event using Capture software is only granted if data are displayed with a sampling frequency of 30 seconds. If the frequency is from 1 to 5 minutes, the visualization depends on the time during which the test was carried out.

## DATA DOWNLOAD VIA USB

This menu allows you to perform a monthly backup of the temperature recorded data using a USB key.

To perform a Backup, click on the icon  and then select . The following screen appears:

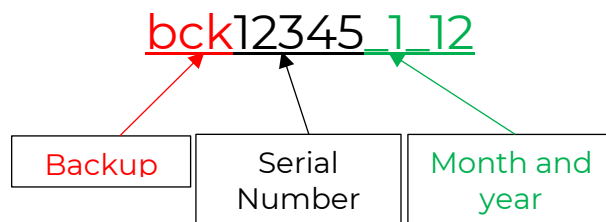


Select the month and year using the arrows, touch

the icon  and follow the on-screen wizard.

A folder containing all the recorded data will be automatically generated inside the USB key. The

name of the folder is structured with a code that uniquely identifies the device, so it is possible to back up different equipment on the same flash drive:



**WARNING:** downloading data with a USB key could create data loss problems in the event of a change in time and date of the device (e.g.: when switching from daylight savings time to winter time and vice versa); it is therefore advisable to download data from the SD Card in this case.

The first time you download data, install Capture 5.2 software contained in the supplied SD Card, and then download data from this support.

## DATA DOWNLOAD VIA SD CARD

We suggest saving the recorded data on a pc at least every two months, to make sure of the availability of historical data even in the event of loss or permanent damage to the digital support.

To perform a backup, simply remove the SD Card and copy the "Backup" folder to your PC, being careful not to delete any file.

Check that the write lever on the SD; if not, the controller does not detect the presence of the SD, and won't write any data on it.

To ensure maximum system efficiency, we recommend replacing the SD Card every 3-4 years

The SD card also contains the following documents for immediate reference:

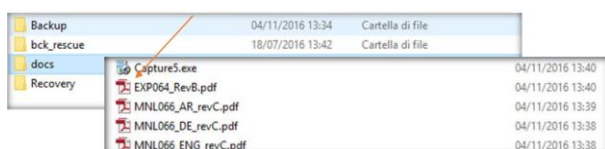
- User Manual
- Wiring diagram
- Exploded view of spare parts

## READING DATA VIA PC SOFTWARE

- Remove the SD Card from its SLOT on the device.
- Insert the SD card into the computer slot (if present) or use the included Card Reader
- Double-click on the Removable Disk corresponding to the SD card (e.g. memory G:)



- Open the "Docs" folder and install the Capture program



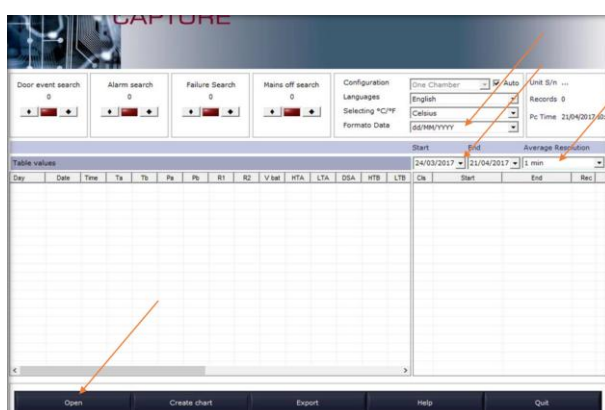
- Open the Capture program, select the period you want to download (Start-End)



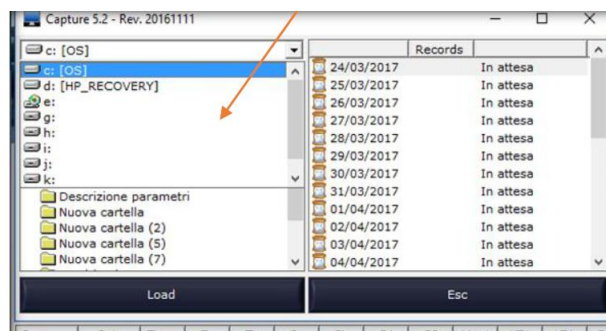
and set the average resolution  
 resolution 1 min (choose 5 minutes to create monthly graphs)



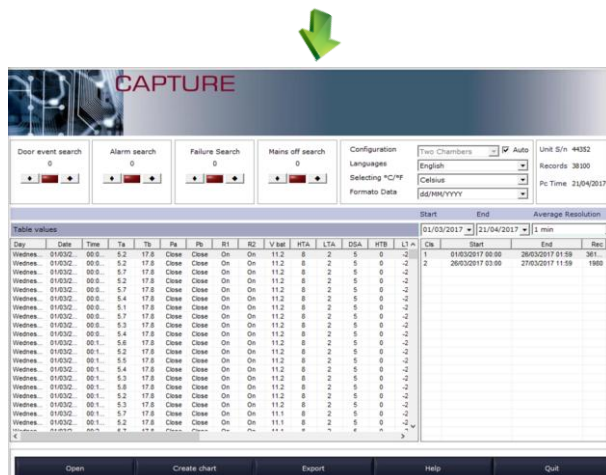
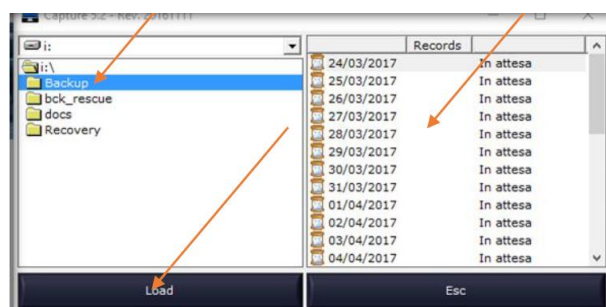
- Click on "Open"



- Select the path to the folder you want to upload



- Double-click only on the "backup" folder, click on Open and wait for data to load



## CREATE A CHART

After downloading the data from the SD Card, you can create a graph by clicking on the **Create chart** button and selecting the desired chamber (Compartment A – Compartment B – Channel A+B – Battery)

Each chart shows the following data:

**Serial Number:** Equipment serial number

**Chart start and end date**

**Printed:** Printing date

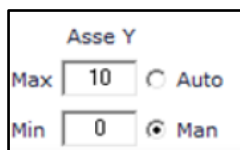
**Notes**



The above graph is daily; you can click on **+1** the button to view the next day's chart, or by clicking on the button **+7**, instantly create a weekly chart.

Pressing the button **+7** again will automatically display the following week.

The scale of the graph on the temperature axis is automatic and is based on the values displayed on the graph. This can be modified it using the menu at the bottom left of the screen, by selecting the "Man" key



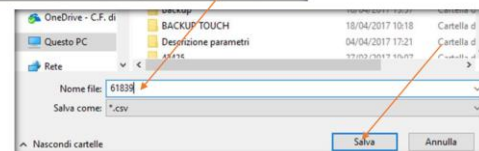
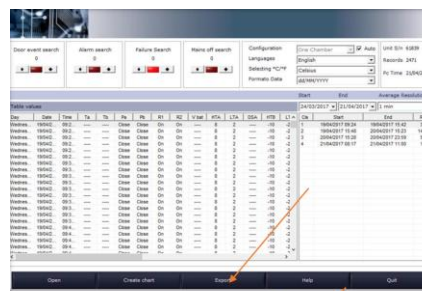
To activate or deactivate the display of the desired chamber, click on the buttons on the left of the graph (Ta-Tb-Set-S1-S2-S3-Rh)

The "upload" button **Load** allows, by setting a start and end date, **20/04/2017** to **20/04/2017** to create a personalized graph of the requested period.

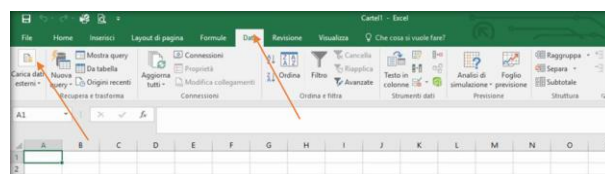
You can also use the available "Zoom" tools and the Y-axis "Auto Scale" function to perform more in-depth analysis on the recorded data.

## DATA EXPORT

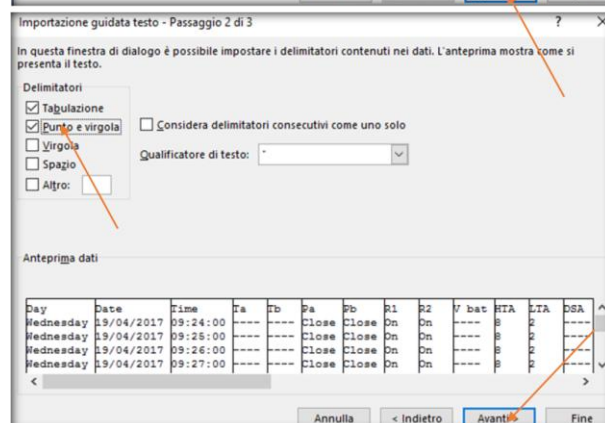
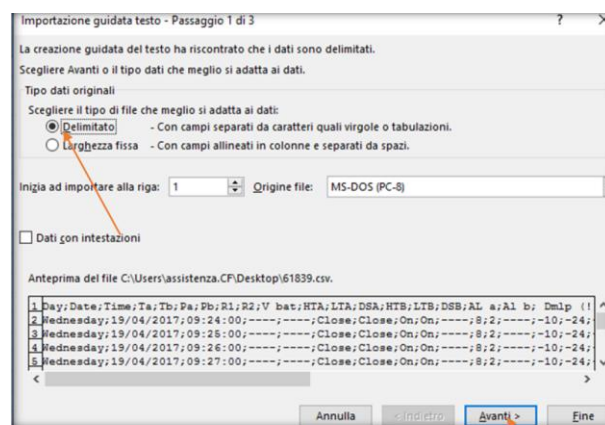
- Click on the "Export" button **Export** and save the file (e.g. with the serial number of the equipment) and click on "Save"

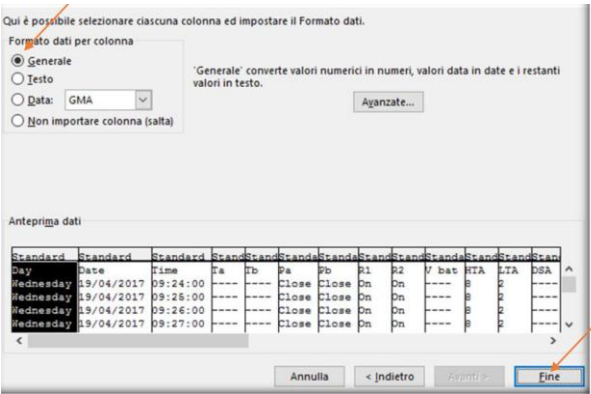


- Open the "Excel" program, select "Data" and upload the previously downloaded file



- Select the following options:





iv. The following table of data will be exported:

## BACKUP BATTERIES FOR POWER FAILURE ALARM

Backup batteries feed the power failure alarm signal for about 12 hours.

The controller recharges the batteries, keep them charged and ensures their performance when needed.



## REMOTE CONNECTIVITY AND ALARM REMOTE OPTIONS

### GSM MODULE (OPTIONAL)

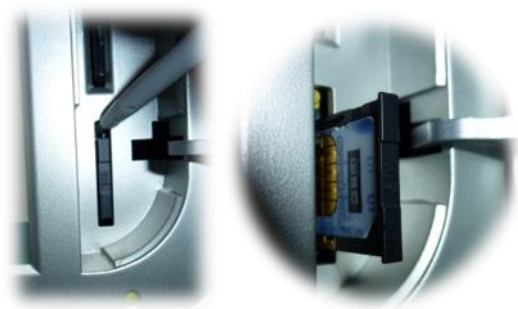
A GSM module is available as an additional accessory to receive notifications from the device in the event of an alarm or fault via SMS. In conjunction with the module, batteries are also installed, to grant remote signalling in the event of a power failure.

You will need to insert a SIM card, using a pointed object to remove the Sim support from the display frame.

Use a telephone SIM without any PIN and deactivate all the services offered by the telephone operator (answering machine, automatic recall, advertising SMS etc...) Failure to do so may result in malfunctions.

The type of SIM card must be compatible with 4G technology





Once the SIM is inserted and the system has restarted, it is possible to enter the telephone numbers for receiving SMS notifications in the SYSTEM SETUP menu.

To enter the system setup menu, click on the icon  and then select  to set the parameters.

|                      |           |
|----------------------|-----------|
| SYSTEM SMS SEND DAY  | EVERY DAY |
| SYSTEM SMS SEND HOUR | 16        |

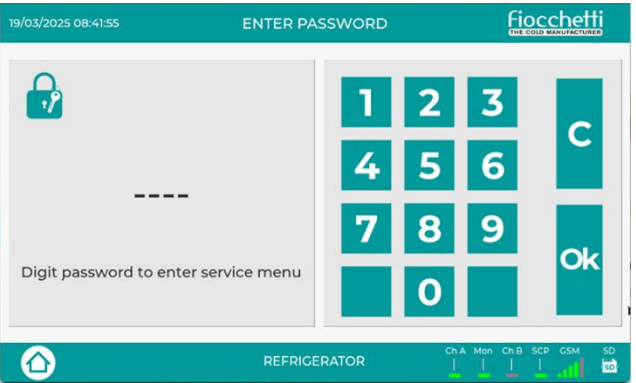
Day and time of the week setting for sending system SMS (only with GSM Communicator module installed)

Allows entering a mobile phone number to send an automatic SMS in the event of a system failure.



To add additional mobile phone numbers, you can create additional users, as described in the paragraphs below.

After accessing the Service Menu, enter the password 2810 and confirm with 

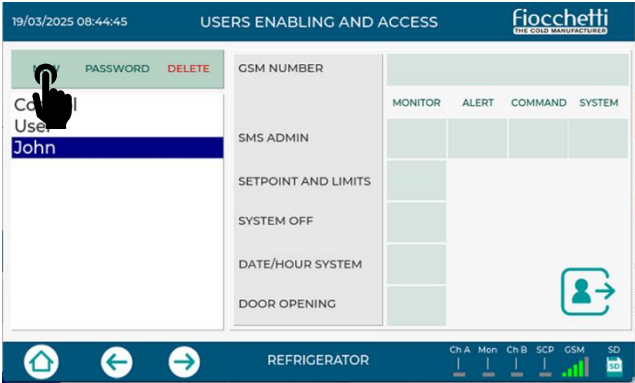


19/03/2025 08:41:55 ENTER PASSWORD Fiocchetti THE COLD MANUFACTURER

Digit password to enter service menu

1 2 3 4 5 6 7 8 9 0 C Ok

Enter the "User Management" section within the service menu  by clicking on the icon .



19/03/2025 08:44:45 USERS ENABLING AND ACCESS Fiocchetti THE COLD MANUFACTURER

PASSWORD DELETE GSM NUMBER

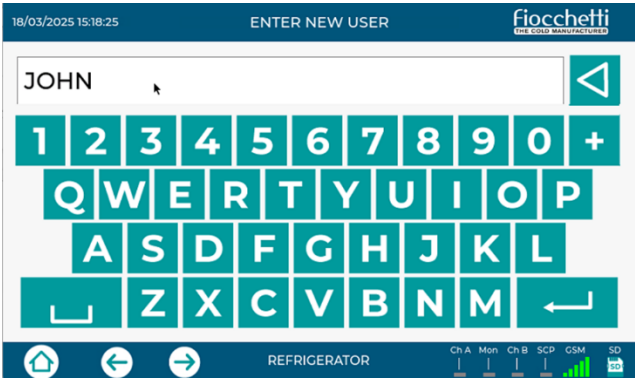
Control User John

SMS ADMIN SETPOINT AND LIMITS SYSTEM OFF DATE/HOUR SYSTEM DOOR OPENING

MONITOR ALERT COMMAND SYSTEM

REFRIGERATOR Ch A Mon Ch B SCP GSM SD

You can create new users using the "NEW" key, typing the name (e.g. JOHN) on the keyboard, confirming with ; you will be asked to enter a specific password for this user.



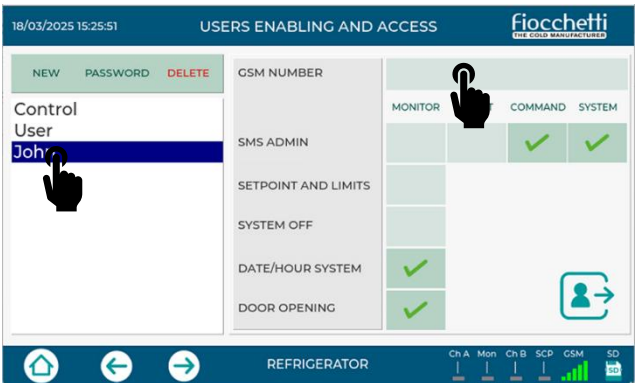
18/03/2025 15:18:25 ENTER NEW USER Fiocchetti THE COLD MANUFACTURER

JOHN

1 2 3 4 5 6 7 8 9 0 + Q W E R T Y U I O P A S D F G H J K L Z X C V B N M

REFRIGERATOR Ch A Mon Ch B SCP GSM SD

Select the name of the user you created (which will now turn blue), click on the box at the top to enter the phone number.



18/03/2025 15:25:51 USERS ENABLING AND ACCESS Fiocchetti THE COLD MANUFACTURER

NEW PASSWORD DELETE GSM NUMBER

Control User John

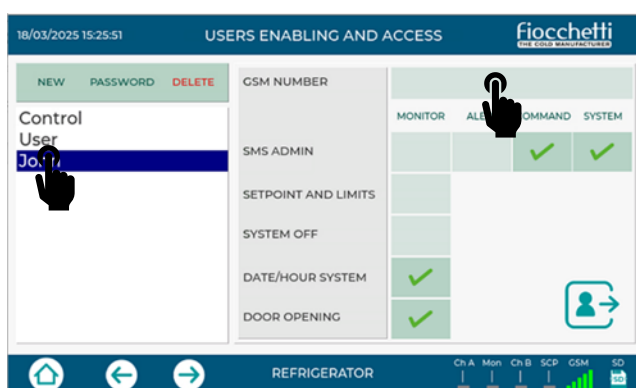
SMS ADMIN SETPOINT AND LIMITS SYSTEM OFF DATE/HOUR SYSTEM DOOR OPENING

MONITOR COMMAND SYSTEM

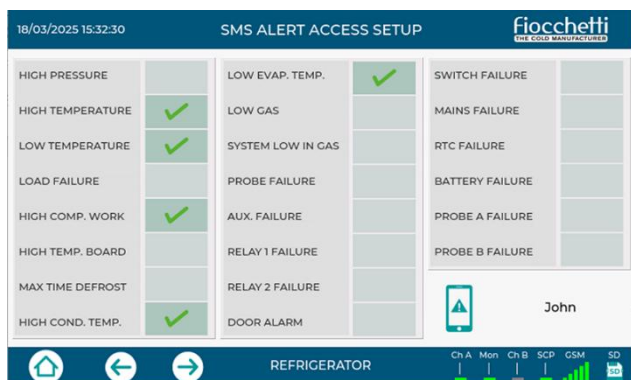
REFRIGERATOR Ch A Mon Ch B SCP GSM SD



Always enter the country code in the telephone number (e.g. +39)



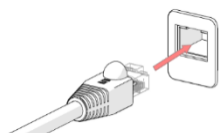
Select once more the user created, click on ALERT to select the types of alarm and/or fault you want him to receive each time an event occurs.



When the configuration is complete, exit with the button .

## CONNECTING TO THE LOCAL AREA NETWORK LAN

If an ethernet port connector (RJ-45) is present on back or on top of the device, insert the ethernet cable of the local network.

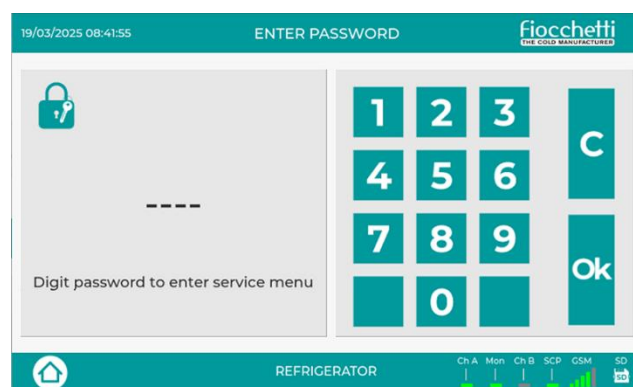


Each piece of equipment is factory set with the static IP address **192.168.0.127**, which must be aligned with the one of network of the installation site.

To change the IP address of the device, access

Service menu by touching the icon  and then on .

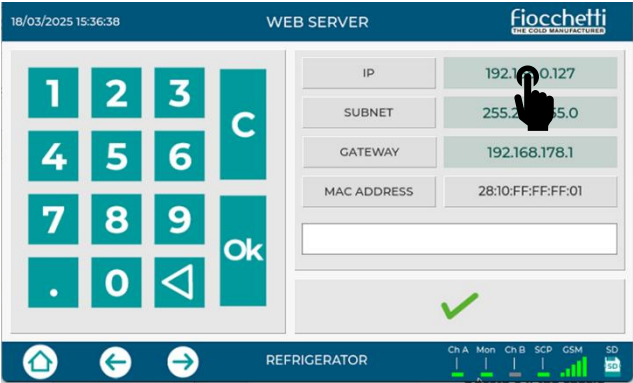
Once you have accessed the Service Menu, enter the password 2810 and confirm with .



Within the menu, select the LAN Setup item by

clicking on the icon  and change the IP address and the SUBNET address, confirm both entries with the button , click on  to register, and exit the menu.





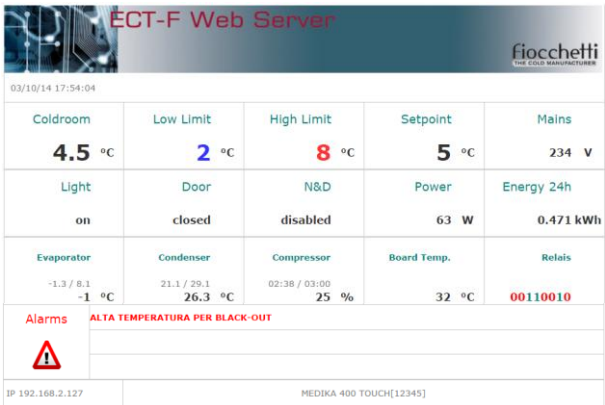
If you are using a MODBUS communication protocol, restart the operating system to make modifications effective.



Attention: the Service Menu contains parameterizations and configurations to guarantee the proper functioning of the equipment. The user is therefore requested not to change parameters on his own will, other than prescribed in this document, or the warranty of the equipment will automatically expire.

## LOCAL MONITORING

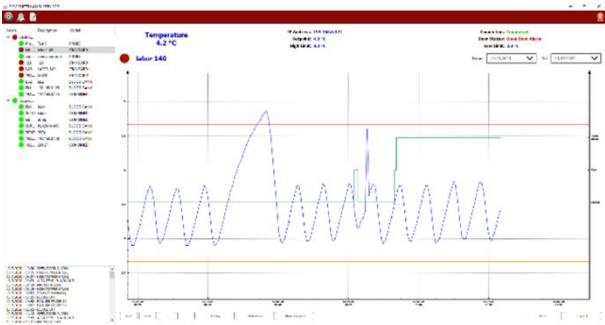
Once the network parameters are set, it is possible to type in the IP address on a browser and monitor some functions of the device. What is visible on the web is shown in the following figure.



Devices connected to the same network can be supervised via the optional LAN SUPERVISOR software.

This allows you to monitor the temperatures of all devices on the network from a single location, and to receive acoustic, visual and email notifications in the event of malfunction and alarm event. See dedicated manual for further reference.

For more details, please refer to the dedicated documentation.



## MONITORING FROM THIRD-PARTY SOFTWARE VIA MODBUS TCP/IP PROTOCOL

The RJ45 (Ethernet) port also allows the equipment to be interfaced with a third-party BMS (Building Management System) external acquisition systems over a LAN network.

The supported function is that of "ReadHoldingRegister", therefore read-only, with a polling of no less than 5 seconds. The temperature values displayed will be divided by 10.

By default, the device address is 1.

Below are the main registers displayed for reading:

| SINGLE TEMPERATURE     | CTRL  | AIR  | PRODUCT |
|------------------------|-------|------|---------|
| CURRENT TEMPERATURE    |       | 3000 | 3001    |
| DOOR STATUS            | 1075* |      |         |
| SETPOINT               | 1003  |      |         |
| HIGH TEMPERATURE LIMIT |       | 3002 | 3003    |
| LOW TEMPERATURE LIMIT  |       | 3004 | 3005    |
| ON/OFF (0=OFF, 1=ON)   | 1078  |      |         |
| MAINS FAULT            | 3026  |      |         |
| HIGH TEMPERATURE ALARM |       | 3014 | 3018    |
| LOW TEMPERATURE ALARM  |       | 3016 | 3020    |
| HIGH COMPRESSOR USE    | 1033  |      |         |
| DEFROST TIME           | 1037  |      |         |

|                                          |      |      |      |
|------------------------------------------|------|------|------|
| HIGH CONDENSER TEMPERATURE               | 1038 |      |      |
| LOW EVAPORATION TEMPERATURE              | 1039 |      |      |
| FAILURE OF S1 PROBE                      | 1042 |      |      |
| FAILURE OF S2 PROBE                      | 1043 |      |      |
| FAILURE OF S3 PROBE                      | 1044 |      |      |
| HIGH TEMPERATURE CAUSED BY POWER FAILURE |      | 3039 | 3040 |
| HIGH TEMPERATURE CAUSED BY OPEN DOOR     |      | 3036 | 3038 |

\*0= closed, 1= open, 2= door open alarm in progress

\*\*only if DMLP digital monitor is installed. Otherwise, it's not managed.

| DUAL TEMPERATURE           | COMPARTME NT A | COMPARTME NT B |
|----------------------------|----------------|----------------|
| CURRENT TEMPERATURE        | 3000           | 3001           |
| DOOR STATUS                | 1075*          | 2075*          |
| SETPOINT                   | 1003           | 2003           |
| HIGH TEMPERATURE LIMIT     | 3002           | 3003           |
| LOW TEMPERATURE LIMIT      | 3004           | 3005           |
| ON/OFF (0=OFF, 1=ON)       | 1078           | 2078           |
| MAINS FAULT                | 3026           | 3026           |
| HIGH TEMPERATURE ALARM     | 3014           | 3018           |
| LOW TEMPERATURE ALARM      | 3016           | 3020           |
| HIGH COMPRESSOR USE        | 1033           | 2033           |
| DEFROST TIME               | 1037           | 2037           |
| HIGH CONDENSER TEMPERATURE | 1038           | 2038           |
| LOW EVAPORATOR TEMPERATURE | 1039           | 2039           |
| FAILURE S1 PROBE           | 1042           | 2042           |
| FAILURE S2 PROBE           | 1043           | 2043           |
| FAILURE                    | 1044           | 2044           |

|                                          |      |      |
|------------------------------------------|------|------|
| S3 PROBE                                 |      |      |
| HIGH TEMPERATURE CAUSED BY POWER FAILURE | 3039 | 3040 |
| HIGH TEMPERATURE CAUSED BY OPEN DOOR     | 3036 | 3038 |

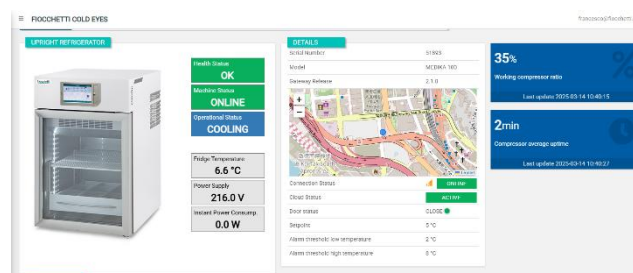
\*0= closed, 1= open, 2= door open alarm in progress

\*\*only if DMLP digital monitor is installed, otherwise unmanaged.

## CLOUD MONITORING

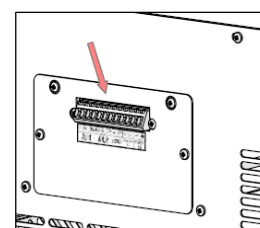
As an optional feature, it is possible to monitor the devices via the "FIOCCHETTI COLD EYES" cloud service. In this case, an additional gateway is required to send data to a remote server via an integrated SIM card; the working data of the equipment can now be accessed from any PC or mobile APP workstation, anytime, anywhere, and receive notifications in the event of alarms.

Please refer to the additional dedicated documentation.



## EXTERNAL TERMINAL BOARD FOR WIRED CONNECTION

If this accessory is installed on the back of the equipment, it is possible to connect to a centralized alarm system via the outputs AL1-AL2 (dry contacts). The contact commutes when an alarm/fault occurs and is detected by the ECT-F TOUCH controller.



|                                                                                   |     |   |    |     |   |    |  |             |   |             |   |
|-----------------------------------------------------------------------------------|-----|---|----|-----|---|----|--|-------------|---|-------------|---|
|  | na  | c | nc | na  | c | nc |  | -           | + | -           | + |
|                                                                                   | AL1 |   |    | AL2 |   |    |  | 4-20mA<br>A |   | 4-20mA<br>B |   |
|                                                                                   |     |   |    |     |   |    |  |             |   |             |   |

The external circuit must have the following characteristics: max 48V, max 600 mA, double insulation or reinforced insulation

DRY CONTACT FOR ALARM SIGNALING

The contact (NO-C-NC) commutes when an alarm or fault is detected by the controller or, if present, by the DMLP Digital Monitor module.

The following table shows which chamber should be connected to the remote instrument.

| SINGLE-TEMPERATURE MODELS |                |                       |                           |
|---------------------------|----------------|-----------------------|---------------------------|
|                           | FAILURES       | AIR TEMPERATURE ALARM | PRODUCT TEMPERATURE ALARM |
| AL1                       | ●              | ●                     |                           |
| AL2                       |                |                       | ●                         |
| TWO-TEMPERATURE MODELS    |                |                       |                           |
|                           | EVENTS COMP. A |                       | EVENTS COMP. B            |
| AL1                       | ●              |                       |                           |
| AL2                       |                |                       | ●                         |

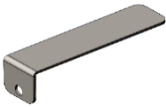
MODULE 4-20 MA (OPTIONAL)

The 4-20mA outputs connect the equipment, respecting polarity, to an external acquisition system with a 4-20mA input. The temperature value detected by the probe of the ECT-F TOUCH controller or DMLP Digital Monitor can therefore be converted into a current signal via the add-on module and these outputs.

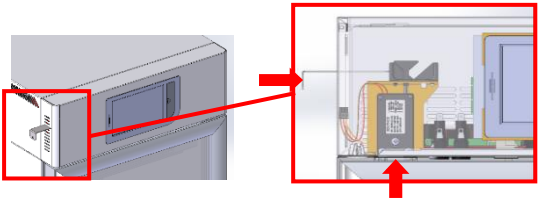
MANUAL ELECTRIC LOCK RELEASE

In the event of a power failure, if the appliance is equipped with an electric lock in the “closed” state, the lock remains closed, and the following instructions must be followed to perform manual unlocking:

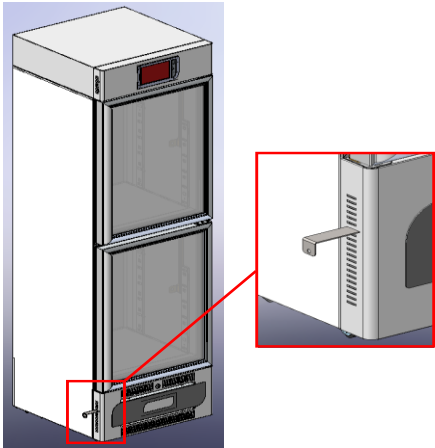
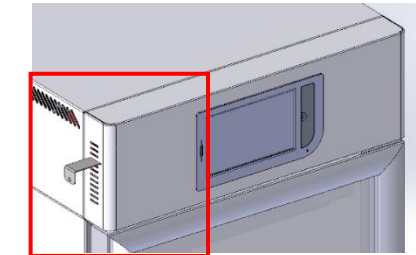
- i. In the event of a power failure, if the door is closed by an electric lock, the door can be opened with the special key supplied (fig. 26)



- ii. **For 1 temperature models:** Insert the key into the dedicated slot on the side of the front panel and keep the key pressed on the release lever while opening the door (releasing the mechanism will lock the door again)(fig.27 )

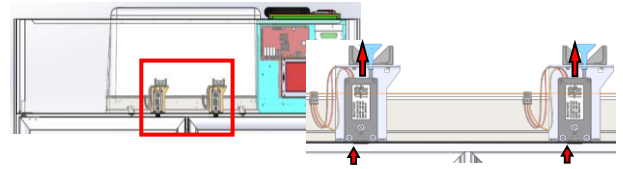


- iii. **For 2-temperature models:** Insert the key into the dedicated slot on the side of the front panels (both for the upper and lower compartments fig.28) and keep the key pressed on the release lever while opening the doors (releasing the mechanism will lock the door again)



- iv. **For 600 2T model:** manual release is possible from the front panel, using the key supplied

- v. **For 1500 model:** to open the doors manually, access the refrigerator from the top, and identify the locks (see below picture). The locks can be opened by simply manually pulling the appropriate release lever. Keeping the levers individually in traction, open the relevant doors.



## 6 ORDINARY AND SCHEDULED MAINTENANCE

The information contained in this chapter is intended for both the user (non-specialized personnel) and the Ordinary Maintenance Technician.

### PROHIBITION OF REMOVAL OF SAFETY DEVICES

It is absolutely forbidden to remove the safety protections without turning off the refrigerator and disconnecting it from the mains.

The manufacturer shall not be liable for accidents resulting from the non-compliance with this obligation.



Do not remove the cord strain relief clamp

Do not replace the power cord with a new one supplied by the manufacturer, without also replacing the strain relief clamp.

### CLEANING THE INTERIOR AND EXTERIOR CABINET

#### ATTENTION:



**ALWAYS DISCONNECT THE POWER SUPPLY BEFORE CARRYING OUT THIS OPERATION.**

For this purpose, the following products are suggested:

#### - CLEANING PRODUCTS

The following industrial detergents have been successfully used on white sheet metal (SANISTEEL)

| TRADE NAME              | DILUTION IN WATER |
|-------------------------|-------------------|
| <b>P3 OXONIA</b>        | At 5%             |
| <b>P3 TOPACTIVE 200</b> | At 5%             |
| <b>P3 TOPAX 66</b>      | At 5%             |
| <b>P3 TOPAX 990</b>     | At 3%             |

The choice of detergents available on the market is endless, not to mention the mix of their components; however, you may refer to the labels showing the composition of the detergents as guide.

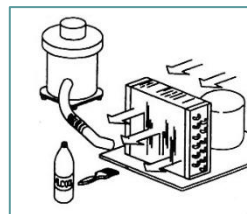
If you are not sure about the product, you can use water and neutral NON-AGGRESSIVE detergents. DO NOT USE SOLVENTS AND THINNERS

- CLEANING METHODS: wash the internal and external parts with a NON-ABRASIVE cloth or sponge
- DISINFECTION: avoid substances that can alter the organoleptic characteristics of the products
- RINSING: cloth or sponge soaked in water. **DO NOT USE WATER JETS**
- FREQUENCY: at least twice a year, or at different intervals depending on the type of product stored.

### CLEANING THE CONDENSER

Failure to clean the condenser may cause the equipment to malfunction. Cleaning must be carried out every 2-3 months, even in the cleanest environments.

It is necessary to access the condensing coil, located in all models in the technical compartment near the compressor, and clean it with one of the following elements:



- Long-bristled brush
- Vacuum cleaner
- Compressed air



**DO NOT USE WIRE BRUSHES NOT TO BEND THE CONDENSER FINS**

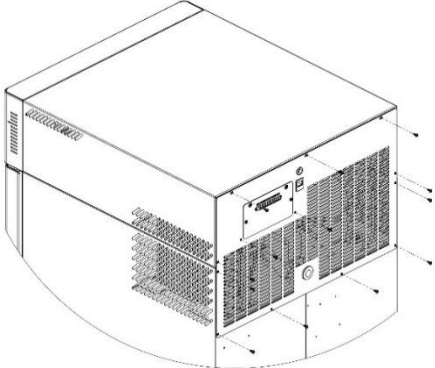
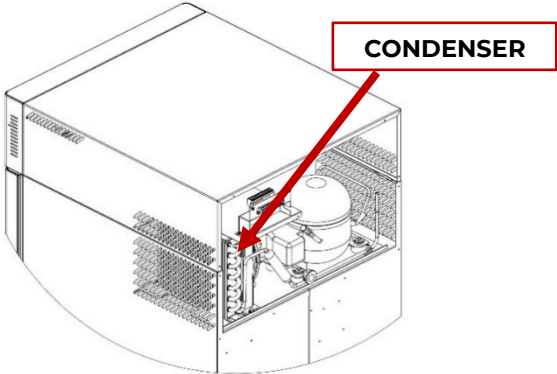
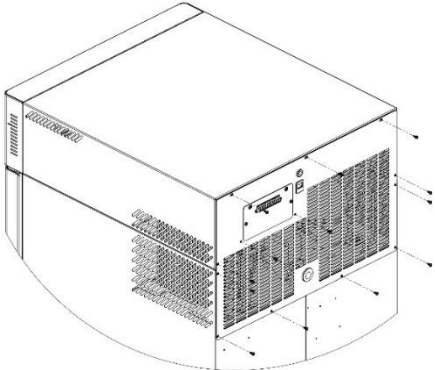


**ALWAYS DISCONNECT THE POWER SUPPLY BEFORE CARRYING OUT THE OPERATION.**

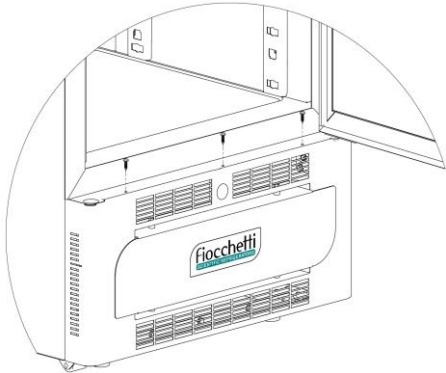
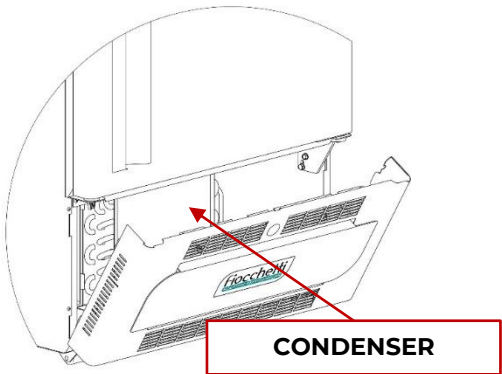
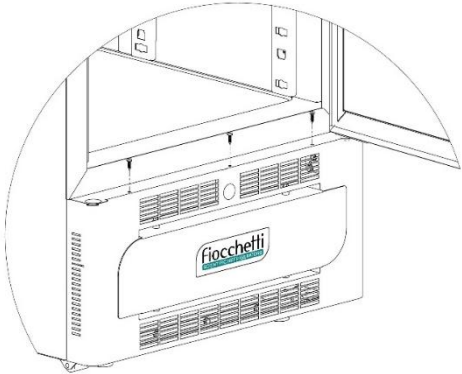
To ensure the correct operation of the appliance, it is essential to follow the manufacturer's instructions and have periodic maintenance carried out by professionally qualified personnel.

Depending on the model, follow these instructions for cleaning the condenser

MODEL 100-140-280 2T

| DESCRIPTION                                                                                                                                                                                                                                                                                         | IMAGE                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Remove the rear cover using a Phillips screwdriver (if the battery pack cover is present, do not remove the screws on the right and left of the terminal block and the screws securing the cover itself) For the 280 2T model, the rear channel covering the electrical wiring must also be removed |    |
| Using a vacuum cleaner or air jet, remove all dust from the condenser fins.                                                                                                                                                                                                                         |   |
| Perform the reverse procedure to replace the back cover in position.                                                                                                                                                                                                                                |  |

MODEL 130-170-200-250-300-600 2T-400-500 (1T & 2T)

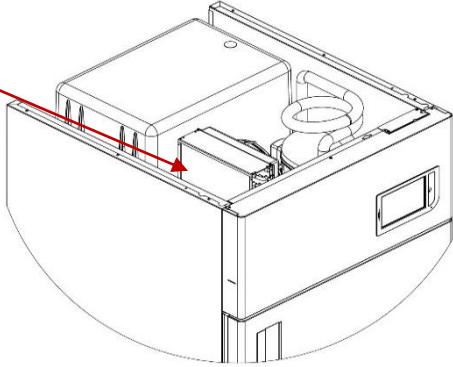
| DESCRIPTION                                                                                                                    | IMAGE                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p>Unscrew the panel using a Phillips screwdriver (3 screws).</p>                                                              |    |
| <p>Rotate and pull down the lower panel</p> <p>Using a vacuum cleaner or air jet, remove all dust from the condenser fins.</p> |   |
| <p>Perform the reverse procedure to restore the correct attachment of the front cover.</p>                                     |  |

MODEL 700-1500

| DESCRIPTION | IMAGE |
|-------------|-------|
|-------------|-------|

In models with a ceiling type cooling unit, the condenser is accessible directly from the outside, using a ladder.

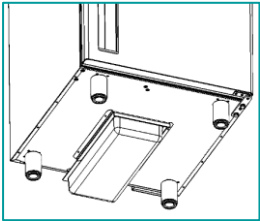
CONDENSER



Use a vacuum cleaner, air blast, or long-bristled brush and remove all dust from the condenser fins.

CONDENSATE WATER DISPOSAL

Defrosting causes the formation of condensate water. In most models, water evaporates automatically, while in following models the water is collected in a provided tray, which must be placed under the cabinet and inserted in the appropriate guides. This tray must be emptied periodically.



As an optional accessory, certain models with ceiling type cooling units (see list below) offer a drip tray for the automatic evaporation of condensate water.

| MODEL                | SERIES |
|----------------------|--------|
| PLASMA-SUPERARTIC    | 700    |
| PLASMA-SUPERARTIC 2T | 700    |
| PLASMA-LABOR 2T      | 700    |
| PLASMA-VISION 2T     | 700    |

COMPLETE DEFROSTING OF FREEZERS

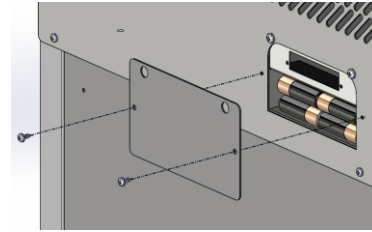
For the following models, it is recommended to perform a complete defrosting at least once a year to eliminate ice residues that could affect the performance of the device. To perform this operation, remove the goods from the chambers and leave the fridge switched off for at least 24 hours with open doors. Dry the cabinet completely and empty the condensation water drip tray if necessary (models indicated in the previous paragraph). The models subject to this procedure are:

| MODEL                                | °T factory set point |
|--------------------------------------|----------------------|
| PLASMA-VISION                        | -20°C                |
| PLASMA-VISION 2T (Compartment B)     | -20°C                |
| PLASMA-FREEZER                       | -20°C                |
| PLASMA-LABOR 2T(Compartment B)       | -20°C                |
| PLASMA-SUPERARTIC                    | -40°C                |
| PLASMA-SUPERARTIC 2T (Compartment B) | -30°C                |

## REPLACEMENT OF BUFFER BATTERIES

To ensure maximum efficiency, the batteries of the acoustic and visual blackout alarm must be replaced periodically, at least every 2 years. This operation can be carried out by the user, easily accessing the slot located:

- on the back of the device
- on the top of the device (models with ceiling type cooling units)



### BATTERY BACKUP

N.8 Rechargeable NiMH AA 1.2V 2600mAh

## 7 DEMOLITION

This appliance is marked in accordance with the European Directive 2012/19/EU (WEEE).



The symbol  indicates that this product should not be treated as household waste but should be handed over to the appropriate collection point for the recycling of electrical and electronic equipment.

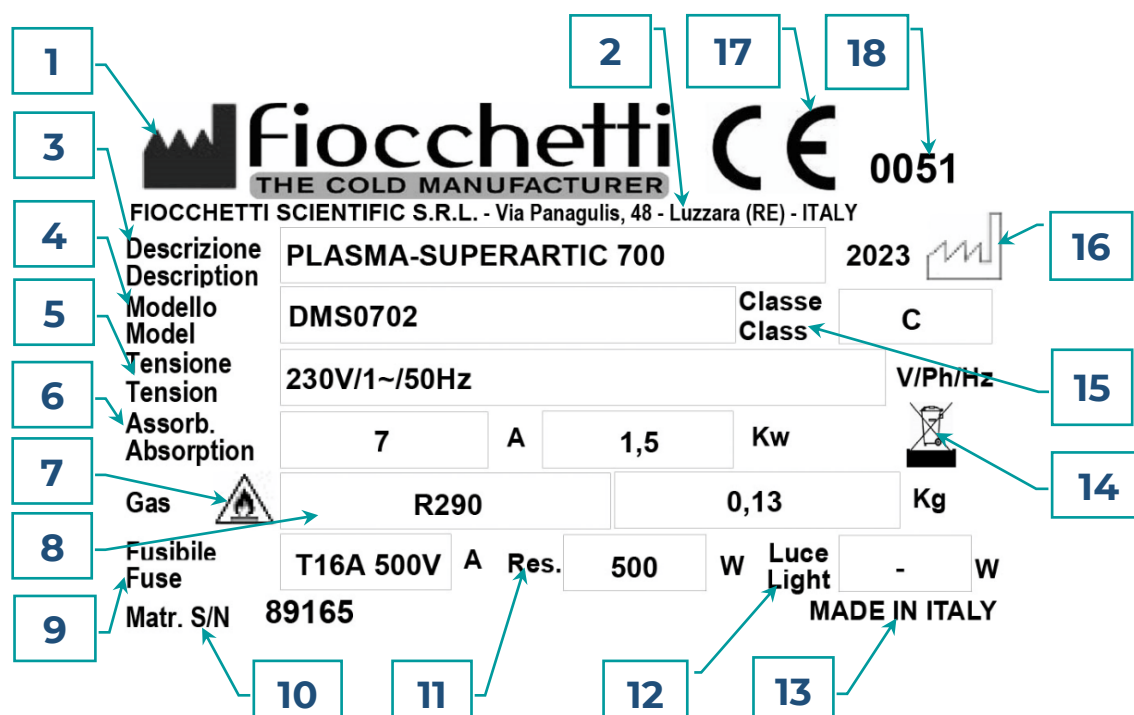
When disposing of the appliance, make it unusable by cutting the power cord, removing the doors, shelves or drawers, so that children cannot access the inside of the equipment. Do not leave it unattended even for a few days.

For more information on how to dispose, reuse and recycle this product, please contact your local office, household waste collection service, or distributor. Comply with current regulations.

The gas present in the system must be extracted by authorized personnel.

## 8 LABELLING

### MACHINE DATAPLATE



| Pos. | Symbol                        | Description                                                                                                                                                                                                                                                              | Standard         |
|------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1    |                               | Indicates the manufacturer of the medical device                                                                                                                                                                                                                         | ISO 15223-1:2021 |
| 2    |                               | Registered office address                                                                                                                                                                                                                                                |                  |
| 3    | <b>Description</b>            | Trade name of the product                                                                                                                                                                                                                                                |                  |
| 4    | <b>Modello<br/>Model</b>      | Product Model                                                                                                                                                                                                                                                            |                  |
| 5    | <b>Tensione<br/>Tension</b>   | Machine power supply: <ul style="list-style-type: none"> <li>- Voltage: <b>230V</b> (in this image)</li> <li>- number of phases: <b>/1</b> (single-phase),</li> <li>- Current Type : <b>~</b> (Alternating)</li> <li>- Frequency: <b>50Hz</b> (in this image)</li> </ul> |                  |
| 6    | <b>Assorb.<br/>Absorption</b> | The current consumption expressed in Ampère (A) followed by the absorbed power expressed in KiloWatt (KW)                                                                                                                                                                |                  |
| 7    |                               | Flammable refrigerant GAS                                                                                                                                                                                                                                                | ISO 7010:2012    |
| 8    | <b>R290</b>                   | Type of refrigerant gas used. Followed by the amount of charge required for the device in question, expressed in Kilograms (Kg)                                                                                                                                          |                  |

|    |                                                                                   |                                                                                                                                          |                                               |
|----|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 9  | <b>Fusibile Fuse</b>                                                              | Fuse type; followed by the type of fuse installed on the equipment.                                                                      |                                               |
| 10 | <b>Matr. S/N</b>                                                                  | Serial number                                                                                                                            |                                               |
| 11 | <b>Res.</b>                                                                       | Indicates the power expressed in Watts (W) of the defrost heater, if present                                                             |                                               |
| 12 | <b>Luce Light</b>                                                                 | Indicates the power expressed in Watts (W) of the light inside the cell, if present                                                      |                                               |
| 13 | <b>MADE IN ITALY</b>                                                              | Country where the device was manufactured                                                                                                |                                               |
| 14 |  | The symbol indicating the separate collection of electrical and electronic equipment according to art. 28 of Directive 2012/19/EU (WEEE) | ANNEX IX<br>Directive<br>2012/19/UE<br>(WEEE) |
| 15 | <b>Classe Class</b>                                                               | Indicates the climate class. That is, the ambient operating temperature of the device                                                    |                                               |
| 16 |  | It indicates the period of manufacture and is preceded by the year                                                                       | ISO 15223-1:2021                              |
| 17 |  | Product mark indicating compliance with European Community regulatory requirements                                                       | ANNEX XII<br>Directive<br>93/42/EEC<br>(MDD)  |
| 18 |                                                                                   | Identification code of the Notified Body                                                                                                 |                                               |

## OTHER LABELLING



General hazard (ISO 7010-W012)



Electrical hazard (ISO 7010-W012)  
Remove electrical power before removing guards



Earth Symbol



WARNING: Risk of fire



Heat Hazard  
High Temperature Parts



Warning and obligation to read this manual



WEEE symbol



PRIMA DI APRIRE LA PROTEZIONE TOGLIERE LA TENSIONE  
TURN OFF AND UNPLUG AC BEFORE OPENING COVER  
AVANT D'OUVRIR LA PROTECTION ÔTER LA TENSION  
BEVOR DER SCHUTZ ZU OEFFNEN, ZU ENTSPANNEN

Disconnect the power before removing the guard

**BATTERY BACKUP**

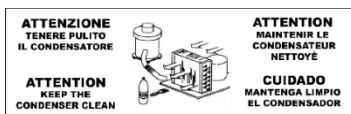
N.8 Rechargeable NiMH AA 1.2V 2600mAh

Battery Backup Warning and Rating

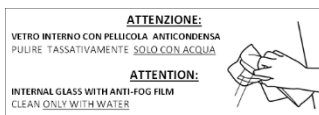


|     |   |    |     |   |    |  |             |   |             |   |
|-----|---|----|-----|---|----|--|-------------|---|-------------|---|
| na  | c | nc | na  | c | nc |  | -           | + | -           | + |
| AL1 |   |    | AL2 |   |    |  | 4-20mA<br>A |   | 4-20mA<br>B |   |

Labelling for dry contact connection and 4-20 mA transducer



Periodic condenser cleaning



Glass door cleaning for Vision models



Do not exceed the indicated level



Fuse ratings label



DANGER - RISK Of Fire Or Explosion. FLAMMABLE REFRIGERANT Used. To Be Repaired Only By Trained Service Personnel. Do Not Puncture REFRIGERANT Tubing This equipment is intended for use in commercial, industrial, or institutional occupancies as defined in the Safety Standard for Refrigeration Systems, ANSI/ASHRAE 15  
CAUTION - RISK Of Fire Or Explosion. Dispose Of Properly In Accordance With Federal Or Local Regulations. FLAMMABLE REFRIGERANT Used  
CAUTION - RISK Of Fire Or Explosion. FLAMMABLE REFRIGERANT Used. Consult Repair Manual/Owner's Guide Before Attempting To Install Or Service This Equipment. All Safety Precautions Must be Followed

AVERTISSEMENT - Risque d'incendie ou d'explosion. RÉFRIGÉRANT INFLAMMABLE utilisé. L'appareil doit être réparé uniquement par du personnel qualifié, Ne pas percer le tuyau de réfrigérant.

Cette unité est destinée à être utilisée dans des établissements commerciaux, industriels ou institutionnels tels que définis dans la norme de Sécurité des Systèmes de Réfrigération, ANSI/ASHRAE 15.

AVERTISSEMENT - Risque d'incendie ou d'explosion. Éliminer correctement conformément aux règlements fédéraux ou locaux. RÉFRIGÉRANT INFLAMMABLE utilisé.

DANGER - Risque d'incendie ou d'explosion. RÉFRIGÉRANT INFLAMMABLE utilisé. Consultez le manuel de réparation/guide du propriétaire avant d'essayer d'installer ou de réparer ce produit. Toutes les précautions de sécurité doivent être suivies

Marking for service, disposal and laboratory use

## 9 ATTACHMENTS

The following documents are attached:

- Declaration of conformity to DIRECTIVE 93/42/EEC
- Declaration of conformity to DIRECTIVE 2011/65/EC (RoHS) (on request)
- Electrical safety verification receipt (attached on request)
- Wiring diagram

## 10 CONSUMABLES

| Code   | Type/Features                                                     | Application                                  | Image                                                                                 |
|--------|-------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------|
| BAT007 | Lithium button battery 3V type CR 2032                            | Pc board clock                               |    |
| BAT005 | AA rechargeable stylus BATTERY<br>NiMH 1.2 V<br>2.6 Ah<br>No.8    | Audible and visual<br>power failure<br>alarm |   |
| DAT014 | SD Card<br>8GB Sandisk SDSDAA-008G or<br>16GB Sandisk SDSDAA-016G | SD Card                                      |  |

## 11 DRAWBACKS AND REMEDIES

The following table shows the indications to identify the causes and solve the most frequent anomalies, which do not automatically require a technical intervention.

Servicing the electrical system can also be carried out by your trusted electrician.

| INCONVENIENCE                                             | POSSIBLE CAUSE                                                            | REMEDY                                                                                             |
|-----------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>The equipment does not turn on</b>                     | • Controller in "Stand-By" mode                                           | • Turn on the controller                                                                           |
|                                                           | • Lack of tension                                                         | • Check plug, receptacle, fuses, and power line                                                    |
|                                                           | • Power plug not connected to electrical outlet                           | • Connect plug to electrical outlet                                                                |
|                                                           | • Controller board failed                                                 | • Contact Technical Support                                                                        |
| <b>The appliance does not reach the set temperature</b>   | • Too much material introduced into the compartment                       | • Reduce the amount of material and leave space between the shelves and the walls of the appliance |
|                                                           |                                                                           | • Insert the products in the compartment little at a time after the temperature stabilization      |
|                                                           | • Material at ambient temperature (e.g. +25°C) placed in the freezer area | • Only insert pre-frozen material                                                                  |
|                                                           | • Prolonged and too frequent door openings                                | • Reduce the number of openings and their duration                                                 |
|                                                           | • Ambient temperature too high                                            | • Air condition the environment                                                                    |
|                                                           | • Condenser clogged with dust or dirt                                     | • Clean the condenser                                                                              |
|                                                           | • Electronic controller malfunction                                       | • Contact Technical Support                                                                        |
|                                                           | • Cooling unit malfunction                                                | • Contact Technical Support                                                                        |
| <b>The equipment is noisy</b>                             | • Appliance instability                                                   | • Check the stability of the equipment by adjusting the feet if necessary                          |
|                                                           | • Contact with foreign bodies (e.g. cardboard, polystyrene or other)      | • Move and/or remove foreign objects touching the equipment                                        |
| <b>Repeated alarm or fault, or alarm detected signals</b> | • The equipment has detected an alarm                                     | • View alarms list                                                                                 |
| <b>Wet products</b>                                       | • Ice formation in the evaporator or sudden thawing                       | • Contact Technical Support                                                                        |
|                                                           | • High humidity in the environment                                        | • Air condition the environment or ventilate the environment                                       |
| <b>Wet glass door</b>                                     | • High humidity in the environment                                        | • Air condition the environment or ventilate the environment                                       |

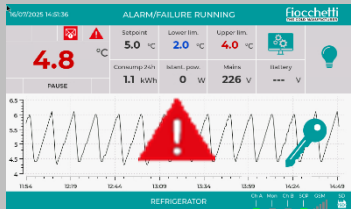
## 12 TOUCH SCREEN ISSUES

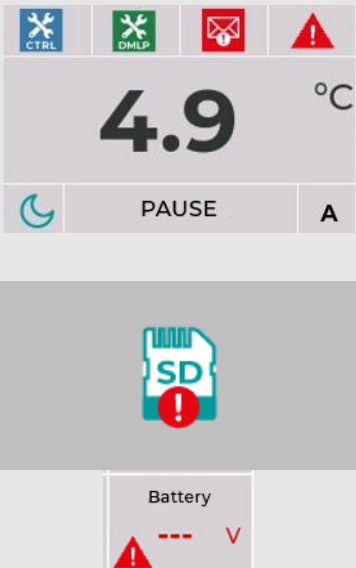
The following problems require contacting technical support to perform some tests, and evaluate the cause of the problem.

| INCONVENIENCE                                                          | POSSIBLE CAUSE                                                                                                                       | REMEDY                                                                                                          |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Red-Black-White colour screen</b>                                   | <ul style="list-style-type: none"> <li>• Disconnecting of electrical parts</li> </ul>                                                | <ul style="list-style-type: none"> <li>• Contact Technical Support</li> </ul>                                   |
|                                                                        | <ul style="list-style-type: none"> <li>• External electromagnetic fields</li> </ul>                                                  |                                                                                                                 |
|                                                                        | <ul style="list-style-type: none"> <li>• Unstable mains voltage</li> </ul>                                                           |                                                                                                                 |
| <b>Icons do not respond to commands or perform different functions</b> | <ul style="list-style-type: none"> <li>• Improper use of the screen with ballpoint pen or spikes and marked/ruined screen</li> </ul> | <ul style="list-style-type: none"> <li>• Use styluses for touch screens</li> </ul>                              |
|                                                                        | <ul style="list-style-type: none"> <li>• Icons are clicked too fast (multitouch)</li> </ul>                                          | <ul style="list-style-type: none"> <li>• The screen does not support multitouch – click icons slowly</li> </ul> |
|                                                                        | <ul style="list-style-type: none"> <li>• Unbalanced screen</li> </ul>                                                                | <ul style="list-style-type: none"> <li>• Contact Technical Support</li> </ul>                                   |
| <b>System stuck in “Starting System”</b>                               | <ul style="list-style-type: none"> <li>• Operating system files damaged by unstable mains voltage</li> </ul>                         | <ul style="list-style-type: none"> <li>• Contact Technical Support</li> </ul>                                   |

## 13 DIAGNOSTIC

List of visual signals on the display:

| VISUAL SIGNALING                                                                    | MEANING                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Audible and visual indication of alarm or fault in progress. (touch the triangle symbol  for details)</p> |
|  | <p><b>FAULT ON DMLP IN PROGRESS OR ENDED</b> (if any)</p>                                                                                                                                        |
|  | <p><b>FAULT ON ECT-F IN PROGRESS OR ENDED</b></p>                                                                                                                                                |

| VISUAL SIGNALING                                                                  | MEANING                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>TEMPERATURE ALARM DETECTED</b></p> <p>Silenced <b>ALARM IN PROGRESS</b><br/>(After 15 minutes, the large triangle reappears in the middle of the screen)</p> <p>SD card missing or damaged or not recognized by the equipment</p> <p>Verify SD card lever is in “write” position</p> <p>Battery disconnected or too low</p> |

If there is an ongoing alarm or the fault icon reappears, touch the icon and wait for the Alarms/Faults List to load.

To mute the alarm, touch the icon  and return to the main screen.

To permanently disable all sound emissions from the equipment, disable the audio in the system setup menu



. Doing so, if an alarm or fault occurs, you will only have a visual signal.

| VISUAL AND ACOUSTIC SIGNALLING | REMEDY                                                                                                                                                  |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HIGH TEMPERATURE</b>        | <ul style="list-style-type: none"> <li>Verify if the set lower and upper limit values have at least a 3° temperature delta from the setpoint</li> </ul> |
|                                | <ul style="list-style-type: none"> <li>Check if goods are stored correctly</li> </ul>                                                                   |
|                                | <ul style="list-style-type: none"> <li>Check if installation environment is not too hot nor cold</li> </ul>                                             |
|                                | <ul style="list-style-type: none"> <li>Clean the condenser</li> </ul>                                                                                   |
|                                | <ul style="list-style-type: none"> <li>Check if the door is properly and fully closed</li> </ul>                                                        |
|                                | <ul style="list-style-type: none"> <li>Air condition the environment</li> </ul>                                                                         |
|                                | <ul style="list-style-type: none"> <li>Check the electrical connection or a momentary power failure is occurring</li> </ul>                             |
| <b>LOW TEMPERATURE</b>         | <ul style="list-style-type: none"> <li>Contact Technical Support</li> </ul>                                                                             |
| <b>OPEN DOOR ALARM</b>         | <ul style="list-style-type: none"> <li>Check if the door is properly and fully closed</li> </ul>                                                        |
|                                | <ul style="list-style-type: none"> <li>Check if the door has been open for longer than the set alarm delay</li> </ul>                                   |

| VISUAL AND ACOUSTIC<br>SIGNALLING      | REMEDY                                                                                                                                                                                                                                                                                                           |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LOW EVAPORATION<br/>TEMPERATURE</b> | <ul style="list-style-type: none"> <li>• Turn off the refrigerator from the keyboard. Unplug the power cord, wait a few seconds and plug it back in. Turn the equipment back on, so that the audible/visual alarm disappears. Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul> |
|                                        | <ul style="list-style-type: none"> <li>• Check that the door is properly and fully closed</li> </ul>                                                                                                                                                                                                             |
|                                        | <ul style="list-style-type: none"> <li>• If the report recurs several times, contact support</li> </ul>                                                                                                                                                                                                          |
| <b>HIGH CONDENSING<br/>TEMPERATURE</b> | <ul style="list-style-type: none"> <li>• Turn off the refrigerator from the keyboard. Turn the equipment back on so that the audible/visual alarm disappears. Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul>                                                                 |
|                                        | <ul style="list-style-type: none"> <li>• Air condition the environment</li> </ul>                                                                                                                                                                                                                                |
|                                        | <ul style="list-style-type: none"> <li>• Check if the installation has been carried out correctly.</li> </ul>                                                                                                                                                                                                    |
|                                        | <ul style="list-style-type: none"> <li>• Clean the condenser.</li> </ul>                                                                                                                                                                                                                                         |
|                                        | <ul style="list-style-type: none"> <li>• If the report recurs several times, contact support</li> </ul>                                                                                                                                                                                                          |
| <b>LOW MAINS VOLTAGE</b>               | <ul style="list-style-type: none"> <li>• Turn off the refrigerator from the keyboard. Turn the equipment back on so that the audible/visual alarm disappears. Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul>                                                                 |
|                                        | <ul style="list-style-type: none"> <li>• Check the mains voltage</li> </ul>                                                                                                                                                                                                                                      |
|                                        | <ul style="list-style-type: none"> <li>• If the report recurs several times, contact support</li> </ul>                                                                                                                                                                                                          |
| <b>DEFROST TIMEOUT</b>                 | <ul style="list-style-type: none"> <li>• Check if the positioning of the products inside the compartment has been carried out correctly</li> </ul>                                                                                                                                                               |
|                                        | <ul style="list-style-type: none"> <li>• Check if installation environment is not too hot nor cold</li> </ul>                                                                                                                                                                                                    |
|                                        | <ul style="list-style-type: none"> <li>• Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul>                                                                                                                                                                                      |

| VISUAL AND ACOUSTIC SIGNALLING                       | REMEDY                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                      | <ul style="list-style-type: none"> <li>If the report recurs several times, contact support</li> </ul>                                                                                                                                                                                                           |
| COMPRESSOR WORK                                      | <ul style="list-style-type: none"> <li>Air condition the environment.</li> </ul>                                                                                                                                                                                                                                |
|                                                      | <ul style="list-style-type: none"> <li>Clean the condenser (see par. 6.3)</li> </ul>                                                                                                                                                                                                                            |
|                                                      | <ul style="list-style-type: none"> <li>Check that installation has been properly performed (see par. 4.2)</li> </ul>                                                                                                                                                                                            |
|                                                      | <ul style="list-style-type: none"> <li>Turn off the refrigerator from the keyboard. Turn the equipment back on so that the audible/visual alarm disappears. Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul>                                                                  |
|                                                      | <ul style="list-style-type: none"> <li>Check that door is properly closed.</li> </ul>                                                                                                                                                                                                                           |
|                                                      | <ul style="list-style-type: none"> <li>If the problem persists, contact Technical Support.</li> </ul>                                                                                                                                                                                                           |
| POWER FEEDER FAILURE                                 | <ul style="list-style-type: none"> <li>Switch off the equipment (see par. 5.2.4.1). Disconnect the plug from the mains, wait for some seconds and plug it again. Switch on the equipment and touch the running failure/alarm icon to eliminate the signalization.</li> </ul>                                    |
|                                                      | <ul style="list-style-type: none"> <li>Contact Technical Support.</li> </ul>                                                                                                                                                                                                                                    |
| MAINS FAILURE                                        | <ul style="list-style-type: none"> <li>Check the electrical system or accidental disconnection of the plug.</li> </ul>                                                                                                                                                                                          |
| SWITCH DOOR FAILURE                                  | <ul style="list-style-type: none"> <li>Turn off the refrigerator from the keyboard. Turn the equipment back on so that the audible/visual alarm disappears. Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul>                                                                  |
|                                                      | <ul style="list-style-type: none"> <li>Check that door is properly closed.</li> </ul>                                                                                                                                                                                                                           |
|                                                      | <ul style="list-style-type: none"> <li>If the problem persists, contact Technical Support.</li> </ul>                                                                                                                                                                                                           |
| PROBE S1-S2-S3 FAILURE                               | <ul style="list-style-type: none"> <li>Contact Technical Support. Refrigerator functioning is guaranteed anyway.</li> </ul>                                                                                                                                                                                     |
| FAILURE LOAD U1-U2-U3-U4-U5-U6-LOAD 1 AUX-LOAD 2 AUX | <ul style="list-style-type: none"> <li>Turn off the refrigerator from the keyboard. Turn the equipment back on so that the audible/visual alarm disappears. Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul>                                                                  |
|                                                      | <ul style="list-style-type: none"> <li>Contact Technical Support. Refrigerator functioning is guaranteed anyway.</li> </ul>                                                                                                                                                                                     |
| --%                                                  | <ul style="list-style-type: none"> <li>Contact Technical Support</li> </ul>                                                                                                                                                                                                                                     |
| PROTECTION AGAINST OVERHEATING (anti-overheating)    | <ul style="list-style-type: none"> <li>Switch off the refrigerator from the keyboard. Unplug the power cord, wait a few seconds and plug it back in. Turn the equipment back on so that the audible/visual alarm disappears. Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul> |
|                                                      | <ul style="list-style-type: none"> <li>Contact Technical Support. The operation of the equipment is still guaranteed</li> </ul>                                                                                                                                                                                 |
| PROTECTION AGAINST FREEZING (anti-freezing)          | <ul style="list-style-type: none"> <li>Switch off the refrigerator from the keyboard. Unplug the power cord, wait a few seconds and plug it back in. Turn the equipment back on so that the audible/visual alarm disappears. Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul> |

| VISUAL AND ACOUSTIC<br>SIGNALLING                                          | REMEDY                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                            | <ul style="list-style-type: none"> <li>• Contact Technical Support. The operation of the equipment is still guaranteed</li> </ul>                                                                                                                  |
| <b>S1m-S2m (only with DMLP Digital Monitor)</b>                            | <ul style="list-style-type: none"> <li>• Contact Technical Support. The operation of the equipment is still guaranteed</li> </ul>                                                                                                                  |
| <b>UNBALANCED PROBES (only with Dmlp Digital Monitor)</b>                  | <ul style="list-style-type: none"> <li>• Switch off the refrigerator from the keyboard. Turn the equipment back on so that the audible/visual alarm disappears. Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul> |
|                                                                            | <ul style="list-style-type: none"> <li>• Contact Technical Support.</li> </ul>                                                                                                                                                                     |
| <b>AUXILIARY COOLING SYSTEM FAILURE. (only for models with TWIN group)</b> | <ul style="list-style-type: none"> <li>• Temperature alarm due to prolonged door opening</li> </ul>                                                                                                                                                |
|                                                                            | <ul style="list-style-type: none"> <li>• Contact Technical Support. The operation of the equipment is still guaranteed</li> </ul>                                                                                                                  |
| <b>TWIN COMMUNICATION FAILURE (only for models with TWIN group)</b>        | <ul style="list-style-type: none"> <li>• Switch off the refrigerator from the keyboard. Turn the equipment back on so that the audible/visual alarm disappears. Tap the fault/alarm in progress or re-entered icon to clear the signal.</li> </ul> |
|                                                                            | <ul style="list-style-type: none"> <li>• Contact Technical Support</li> </ul>                                                                                                                                                                      |

## 14 REQUEST FOR TECHNICAL SUPPORT

Please fill in the form below to provide the necessary data for Technical Assistance intervention. If possible, leave the refrigerator running for 1 hour or even better 24 hours to allow the controller to collect the information in a complete way.

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| APPLICANT:                                                              |     |
| TO BE CARRIED OUT AT*:                                                  |     |
| REFERENCE:                                                              | TEL |
| MODEL:                                                                  | S/N |
| Traceable from the CE plate on the back of the manual or on the cabinet |     |

| The equipment:                                                                                | YES | NO |
|-----------------------------------------------------------------------------------------------|-----|----|
| Does not cool                                                                                 |     |    |
| Does not reach the set temperature                                                            |     |    |
| Doesn't turn on                                                                               |     |    |
| It's embedded in furniture/built-in                                                           |     |    |
| Power cord connected to multiple or adapters on the power outlet                              |     |    |
| The refrigeration unit is noisy                                                               |     |    |
| Display is off                                                                                |     |    |
| Periodic cleaning of the condenser has been carried out as per the use and maintenance manual |     |    |
| When was it lastly performed and by whom (personnel)                                          |     |    |
| Have you checked the trouble shooting according to the use and maintenance manual?            |     |    |
| Does the display show one of the following messages?                                          |     |    |

| The display indicates:      | YES | NO |
|-----------------------------|-----|----|
| LOW EVAPORATION TEMPERATURE |     |    |
| HIGH CONDENSING TEMPERATURE |     |    |
| DEFROST TIMEOUT             |     |    |
| PROBE FAILURE               |     |    |
| COMPRESSOR WORK             |     |    |
| INVALID SD                  |     |    |

|            |                         |
|------------|-------------------------|
| ISSUED ON: | SIGNATURE:<br>(legible) |
|------------|-------------------------|

Send by fax to 0522-976028 or by email to [assistenza@fiocchetti.it](mailto:assistenza@fiocchetti.it) or [commerciale@fiocchetti.it](mailto:commerciale@fiocchetti.it)

**NB.:** failure to send the duly completed request (\* mandatory fields) will result in the failure to open the service ticket and in troubleshooting delay

## 15 USABILITY MODULE (Mod.055)

In accordance with EN 62366 directive, the following questionnaire is intended to identify the usability of the device and to verify the correctness of the information for use.

Below form must be fully completed for each medical device installed by the person, or people, responsible for the same devices. A copy must be kept at the hospital/ward where the medical device is installed, and a copy must be countersigned by the department managers and returned to the company FIOCCHETTI SCIENTIFIC S.R.L. at the following address or fax number:

e-mail : [tecnico@fiocchetti.it](mailto:tecnico@fiocchetti.it)

Fax : +39 0522 976028

| IDENTIFICATION OF THE INSTALLED MEDICAL DEVICE |  |
|------------------------------------------------|--|
| Model                                          |  |
| Model art. reference                           |  |
| Serial Number                                  |  |

| IDENTIFICATION OF USE OF THE MEDICAL DEVICE |  |
|---------------------------------------------|--|
| Department where it is installed            |  |
| Type of preserved product                   |  |

| LIST OF PERSONNEL IN CHARGE OF USE |         |              |
|------------------------------------|---------|--------------|
| NAME                               | SURNAME | JOB FUNCTION |
|                                    |         |              |
|                                    |         |              |
|                                    |         |              |
|                                    |         |              |
|                                    |         |              |
|                                    |         |              |
|                                    |         |              |
|                                    |         |              |

The rating is shown in the following table (highlight only the rectangle of the chosen grade):

| INDEX | EVALUATION   |
|-------|--------------|
| 1     | poor         |
| 2     | insufficient |
| 3     | sufficient   |
| 4     | good         |
| 5     | very good    |

| QUESTIONNAIRE |                                                                                                                                                               |                                 |                               |                                |                               |                               |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|
| N°            | QUESTION/REQUIREMENT                                                                                                                                          | RESPONSE/EVALUATION             |                               |                                |                               |                               |
| 1             | Have you already used the same or similar device, of the same or different brand?                                                                             | YES<br><input type="checkbox"/> |                               | NO<br><input type="checkbox"/> |                               |                               |
| 2             | Are users intended for the use of the device adequately trained on the "good use" of blood and its blood products? (blood collection, processing and storage) | YES<br><input type="checkbox"/> |                               | NO<br><input type="checkbox"/> |                               |                               |
| 3             | Are users adequately trained on the correct treatment of donated breast milk? (collecting, processing and storage)                                            | YES<br><input type="checkbox"/> |                               | NO<br><input type="checkbox"/> |                               |                               |
| 4             | Among the staff chosen for the use of the device, is there at least one person informed on the regulations in force for medical devices?                      | YES<br><input type="checkbox"/> |                               | NO<br><input type="checkbox"/> |                               |                               |
| 5             | Has the provided documentation been read? (Use & Maintenance Manual)                                                                                          | YES<br><input type="checkbox"/> |                               | NO<br><input type="checkbox"/> |                               |                               |
| 6             | Was the installation carried out in accordance with the instructions in the manual?                                                                           | YES<br><input type="checkbox"/> |                               | NO<br><input type="checkbox"/> |                               |                               |
| 7             | The documentation provided is sufficiently clear to give the correct information on the use of the device                                                     | 1<br><input type="checkbox"/>   | 2<br><input type="checkbox"/> | 3<br><input type="checkbox"/>  | 4<br><input type="checkbox"/> | 5<br><input type="checkbox"/> |
| 8             | The instructions on the packaging are adequately clear for its removal                                                                                        | 1<br><input type="checkbox"/>   | 2<br><input type="checkbox"/> | 3<br><input type="checkbox"/>  | 4<br><input type="checkbox"/> | 5<br><input type="checkbox"/> |
| 9             | The indications for the first installation of the device are clear and leave no room for interpretation                                                       | 1<br><input type="checkbox"/>   | 2<br><input type="checkbox"/> | 3<br><input type="checkbox"/>  | 4<br><input type="checkbox"/> | 5<br><input type="checkbox"/> |
| 10            | Can I use the device improperly or incorrectly despite the instructions provided by the manufacturer (User Manual)?                                           | YES<br><input type="checkbox"/> |                               | NO<br><input type="checkbox"/> |                               |                               |
| 11            | If you answered "YES" to the previous question, provide a reason<br>-----<br>-----<br>-----                                                                   |                                 |                               |                                |                               |                               |
| 12            | The device interface (Touch screen or membrane keypad) is intuitive and easy to use                                                                           | 1<br><input type="checkbox"/>   | 2<br><input type="checkbox"/> | 3<br><input type="checkbox"/>  | 4<br><input type="checkbox"/> | 5<br><input type="checkbox"/> |
| 13            | Access to the data provided by the interface for normal use of the device is easy to consult                                                                  | 1<br><input type="checkbox"/>   | 2<br><input type="checkbox"/> | 3<br><input type="checkbox"/>  | 4<br><input type="checkbox"/> | 5<br><input type="checkbox"/> |
| 14            | The alarms described in the attached documentation and shown on the interface are adequate to ensure the safety of the stored product                         | 1<br><input type="checkbox"/>   | 2<br><input type="checkbox"/> | 3<br><input type="checkbox"/>  | 4<br><input type="checkbox"/> | 5<br><input type="checkbox"/> |
| 15            | The accessories supplied for the storage of the "products" are practical to use (e.g. shelves or drawers with dividers.)                                      | 1<br><input type="checkbox"/>   | 2<br><input type="checkbox"/> | 3<br><input type="checkbox"/>  | 4<br><input type="checkbox"/> | 5<br><input type="checkbox"/> |

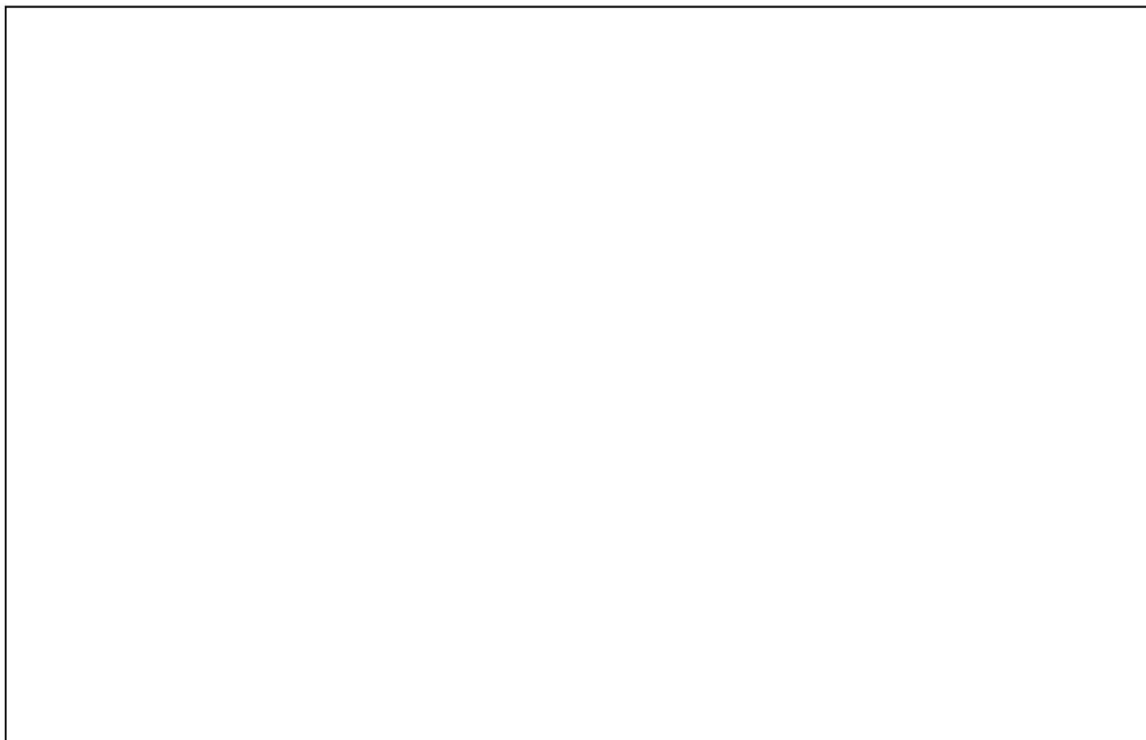
Stamp and Signature

-----

DATE

\_\_\_/\_\_\_/\_\_\_

Dataplate



Reseller stamp



**fiocchetti**  
THE COLD MANUFACTURER

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