



Style, quality and technology



**ItalianGelato**

DESIGN & EQUIPMENT CONCEPTS

**BRIO** GELATERIA



Use and Maintenance Manual



## Quick Reference Guide for Artisan Gelato & Ice Cream Freezers





- 1: Control Panel
- 2: Main Power Switch
- 3: Display - Off / On
- 4: Display - Light Off / On

### HOW TO SEE THE SET-POINT

- 1) Push and immediately release the **SET** key. The display will show the Set point value.
- 2) Push and immediately release the **SET** key or wait for 5 seconds to display the probe value again.

### HOW TO CHANGE THE SET-POINT

- 1) Push the SET key for more than 2 seconds to change the Set point value.
- 2) The value of the set point will be displayed and the "°C" LED starts blinking.
- 3) To change the Set value push the  or  arrows within 10 seconds.
- 4) To memorise the new set point value push the SET key again or wait 10 seconds.

**SET** To display target set point; in programming mode it selects a parameter or confirm an operation.



**(DEF)** To start a manual defrost



**(UP)** To see the max. stored temperature; in programming mode it browses the parameter codes or increases the displayed value.



**(DOWN)** To see the min stored temperature; in programming mode it browses the parameter codes or decreases the displayed value.



To switch the instrument off, if on F = OFF.






Not used.

## WEEKLY MAINTENANCE — USER / OPERATOR

### WEEKLY and / or MID-WEEKLY SHUTDOWN & DEFROST

*All freezer displays must be manually defrosted once or twice per week*

- 1) At the end of daily trade press the **DEF**  key for longer than 2 seconds until the "DEFROST" starts.
- 2) Immediately at the end of the defrost, turn the display case "ON/OFF"  button (pos 3) to the OFF position.
- 3) Allow a minimum OFF period of 10 hours to ensure complete defrosting of the refrigeration coils.
- 4) After the OFF period is complete and the display has been cleaned switch the "ON/OFF"  button (pos 3) to the ON position.
- 5) Wait approx. 20 to 30 minutes or until the display reaches the desired temperature before restocking with product.

### CLEANING THE DISPLAY

**Cleaning of Glass and Perspex Plastic Surfaces** - Use only approved cleaners agents. Do not use any abrasive or chemical cleaners.

**Cleaning Internal Components** - Use only warm water and a light soap. Do not use any abrasive or chemical cleaners. DO NOT spray or pour water on electrical motors such as evaporator fans. Dry all areas thoroughly before restarting the appliance.

**Air cooled Refrigeration Systems** - Ensure the condenser is cleaned every 3 months. (refer to user / operator manual)



**Caution - For safety always ensure the power is disconnected to the unit during all cleaning**



**Dear Customer,** First of all, we would like to thank you for choosing our products. Please read this manual thoroughly before you proceed with installation. It contains all the information required for correct installation, startup, use, cleaning, maintenance, etc.

The manual also includes a form concerning: **Correct installation.**

These forms must be filled out and signed after the display case has been installed and tested. One form must always stay with the manual, while the other one must be sent to the manufacturer, together with the warranty. Meticulously preserve this manual and keep it in a safe place. Do not put this manual away without reading it, regardless of your prior experience. Spending a few minutes reading the manual will help you save time and effort.

## SUMMARY

|    |  |                   |
|----|--|-------------------|
| 1  | <b>GUIDE TO THE MANUAL</b>                             | <b>Page 1</b>     |
| 2  | <b>TECHNICAL DATA</b>                                  | <b>Page 2</b>     |
| 3  | <b>DISPLAY CASE MARKING DATA</b>                       | <b>Page 3</b>     |
| 4  | <b>HOW TO USE AND PRESERVE THE INSTRUCTIONS MANUAL</b> | <b>Page 3</b>     |
| 5  | <b>HANDLING AND INSTALLING THE DISPLAY CASE</b>        | <b>Page 4</b>     |
| 6  | <b>ENVISIONED USE</b>                                  | <b>Page 5</b>     |
| 7  | <b>TECHNICAL DESCRIPTION OF THE DISPLAY CASE</b>       | <b>Page 6</b>     |
| 8  | <b>INSTALLATION</b>                                    | <b>Page 7</b>     |
| 9  | <b>INSTRUCTIONS FOR USE</b>                            | <b>Page 8</b>     |
| 10 | <b>MAINTENANCE</b>                                     | <b>Pages 9-10</b> |
| 11 | <b>TROUBLESHOOTING</b>                                 | <b>Page 11</b>    |
| 12 | <b>DISMANTLING<br/>ATTACHMENTS</b>                     | <b>Page 11</b>    |

## 1 GUIDE TO THE MANUAL

This manual has been drawn up by the manufacturer and is an integral part of the machine supply. The information it contains is for non-qualified (inexpert) and qualified personnel.

This manual defines the purpose for which the machine was built and it contains all necessary information to ensure its proper installation and safe correct operation.

Other technical information that is not included in this manual is an integral part of the technical file prepared by **Ital Proget** and is available at its facilities.

### ATTENTION

**Be sure to consult this manual before proceeding with installation, use and any other work on the machine.**

Constant observance of the regulations it contains will guarantee personnel and machine safety, low-cost operation and a longer operating life.

In designing and manufacturing the machine, the necessary criteria and features were used in order to fulfill the essential safety requirements envisioned by Machine Directive:

89/392/CEE, 73/23/CEE, 91/368/CEE, 93/44/CEE, 93/68/CEE;

and by Standards:

CISPR 14-1, CISPR 16, CISPR 22;

EN 61000-3-2, EN 61000-3-3;

EN 61000-4-2, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11.

The careful analysis done by **Ital Proget** has made it possible to eliminate most risks. However, be sure to follow all the instructions given in this manual. Always refer to the manual before carrying out any operation.

Safeguard this manual and make sure it is always available next to the machine or in the nearby vicinity.

### ATTENTION

**Before conducting any type of operation, disconnect the machine from the electrical mains.**

The diagrams and drawings are furnished by way of example. In pursuance to its policy of constant development and updating, the manufacturer may make any changes without giving advance notice.

This manual must be kept for the entire life of the machine. If it is lost or destroyed, a copy can be requested from the manufacturer. Be sure to indicate the data listed on the nameplate (the price will be established by the manufacturer).

**Ital Proget** welcomes any comments from clients concerning improvements to be made on the machine and will assess their implementation.

This document is the exclusive property of **Ital Proget** and cannot be divulged to third parties, either in whole or in part, without the written authorization of **Ital Proget**.

**Ital Proget** reserves all legal rights.

All the measurements listed in this manual are expressed in mm.

## DIMENSIONS

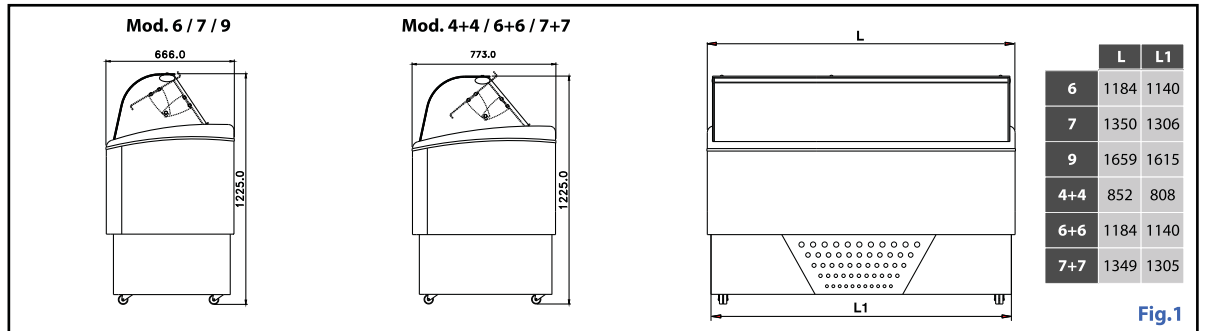


Fig.1

## ICE CREAM TUBS

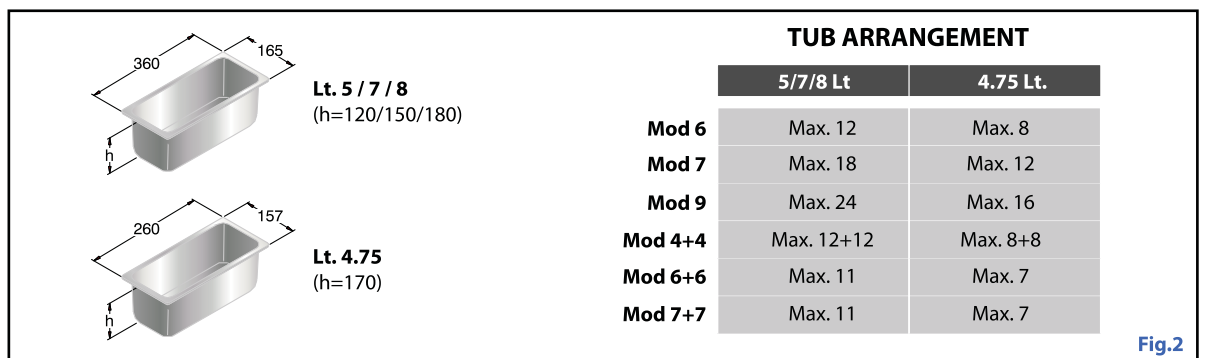


Fig.2

## TECHNICAL FEATURES

|  | 6           | 7           | 9           | 4+4         | 6+6         | 7+7         |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Display surface (m<sup>2</sup>)</b> | 0.42        | 0.49        | 0.62        | 0.37        | 0.53        | 0.62        |
| <b>Loading capacity (litres)</b>       | 106         | 122         | 153         | 93          | 133         | 153         |
| <b>Weight (Kg)</b>                     | 102         | 112         | 127         | 90          | 115         | 132         |
| <b>Product basin temperature (°C)</b>  | -16° / -18° | -16° / -18° | -16° / -18° | -16° / -18° | -16° / -18° | -16° / -18° |
| <b>Climatic class N°(°C/%U.R.)</b>     | 3 (-25/60)  | 3 (-25/60)  | 3 (-25/60)  | 3 (-25/60)  | 3 (-25/60)  | 3 (-25/60)  |
| <b>Refrigeration S/V</b>               | V           | V           | V           | V           | V           | V           |
| <b>Coolant Gas (G)</b>                 | R404A       | R404A       | R404A       | R404A       | R404A       | R404A       |
| <b>Q.ty of coolant gas (gr)</b>        | 550         | 600         | 700         | 480         | 550         | 600         |
| <b>Power supply (V/Ph/Hz)</b>          | 230/1/50    | 230/1/50    | 230/1/50    | 230/1/50    | 230/1/50    | 230/1/50    |
| <b>Rated capacity (W)</b>              | 620         | 620         | 710         | 620         | 620         | 620         |
| <b>Defrosting power (W)</b>            | 1270        | 1270        | 1500        | 1021        | 1270        | 1270        |
| <b>Lighting power (W)</b>              | 30          | 30          | 36          | 20          | 30          | 30          |

## 3 DISPLAY CASE MARKING DATA

### DISPLAY CASE IDENTIFICATION

Before the display case is packaged, a nameplate is mounted on it, identifying each case that is manufactured by its model and series. Check to be sure that the instructions manual corresponds to the display case to which it is referring. If any information or technical assistance is required, in addition to the model and machine type, you must also indicate its serial number.

### DISPLAY CASE MODEL AND SERIES

Professional ice-cream display case, **BRIO** series, models **6 / 7 / 9 / 4+4 / 6+6 / 7+7**.

### MANUFACTURER (fig.3)

### DISPLAY CASE NAMEPLATE

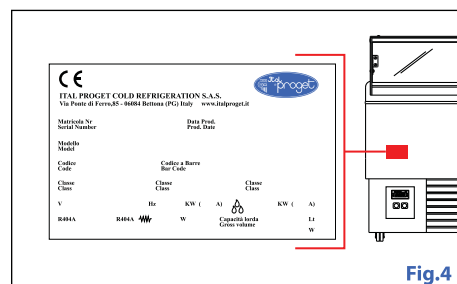
The display case nameplate is located on the rear part (operator side) - Fig.4. The nameplate lists the information that identifies the machine, including its serial number and the year it was manufactured.

### CE MARKING

The CE mark is applied directly to the nameplate on the display case.

### NAMEPLATE OF THE MAIN COMPONENTS

The nameplates of all the components that were not manufactured directly by ITAL PROGET (e.g. compressors, fans, etc.) are mounted on the components themselves in the position in which they were original placed by the respective manufacturers.



## 4 HOW TO USE AND PRESERVE THE INSTRUCTIONS MANUAL

This chapter offers some indications on using the instruction manual and on its use limitation.

### INTENDED USER OF THE INSTRUCTIONS MANUAL

This instructions manual is intended for the following personnel: shipping, loading and unloading staff, operators, installers, maintenance personnel.

### OBJECTIVES OF THE INFORMATION IN THE MANUAL

The purpose of this manual is to indicate how the machine should be used based on its design. It will also indicate its technical features, offering instructions on how to move, install regulate and use it. It will also guide you in maintenance work and facilitate spare parts orders.

### LIMITATIONS ON THE USE OF THE MANUAL

It is important to remember that the instructions manual reflects the techniques current at the time the machine was purchased. Thus, the manufacturer has the right to update the manual and the equipment without updating the manual or any prior production, with the exception of unusual cases.

### HOW TO PRESERVE THE MANUAL

We would like to remind the user that the manual must be preserved with care to ensure it will last as long as the machine. Therefore, it is supplied in a special case that can protect it from wear and tear over the years.

In addition, two copies of the section concerning "display case handling" are furnished so that the shipper and the personnel responsible for unloading the machine can consult this section without referring to the main text.

If the manual gets lost or destroyed, a copy can be requested through the firm's area representative or directly from the manufacturer. Be sure to specify the type, serial number and year the display case was manufactured.

This chapter offers the necessary instructions for correct completion of the loading/unloading, handling and installation operations of the display case.

## RECEIVING THE DISPLAY CASE

The display case has packaging around it to protect it during shipment and/or storage, comprised of:

- a wooden pallet
- cardboard case

Figure 5 shows the standard packing.

There is a table on the packing and its purpose is to give detailed product information.

- Weights: net - gross - tare
- Dimensions: length - width - height
- Hoisting hook-up points.

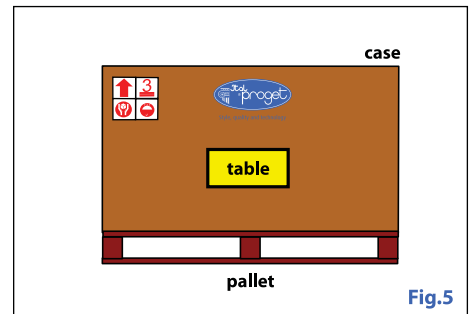


Fig.5

### ATTENTION

**IMPORTANT:** remember that since cardboard packing is used, it is subject to the action of atmospheric agents (rain, snow). Therefore, the display cases must be stored in a dry indoor area.

## STORAGE

Temporary or extended storage must be done in indoor areas protected from atmospheric agents (fig.6). The display cases must be handled with care.

Proceed as follows for the unloading, transport and unpacking operations.

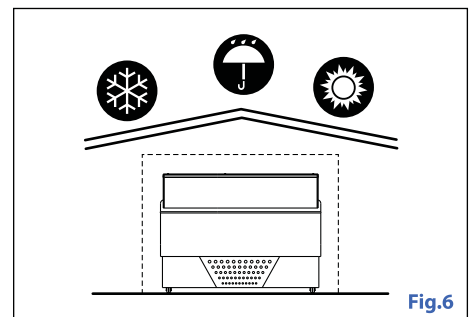


Fig.6

### ATTENTION

Conduct the unloading operations using suitable hoisting equipment (the capacity must be adequate for the weight of the packed display case), hoisting it as shown in Fig.7.

## CHECKING THE SUPPLY

Before taking delivery from the shipper, check the conditions of the packing. If it shows obvious damage on the outside, the display case could be damaged. In this case, unpack the display case in the shipper's presence. Any damage caused by incorrect handling and storage is not the manufacturer's responsibility.

**IN THIS CASE:** A) Contact your area representative - B) Draw up a written report - C) Send a copy of the report to The manufacturer or area representative.

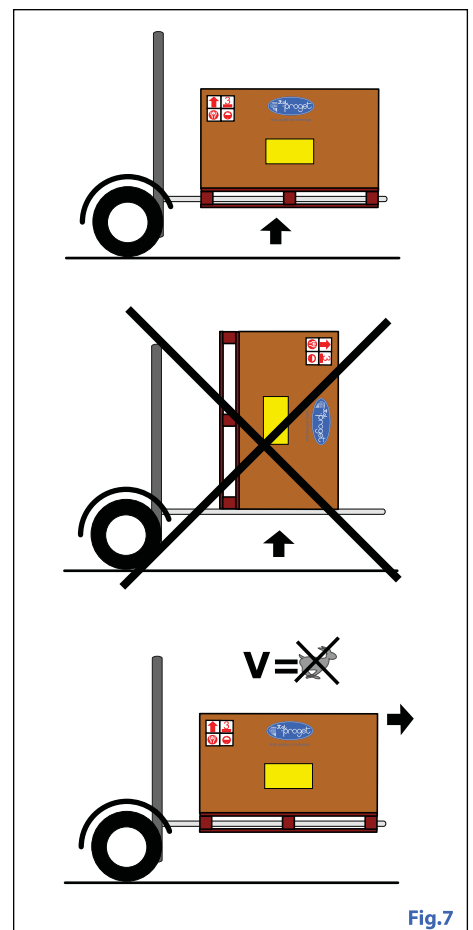


Fig.7

### ATTENTION

## UNPACKING

All the unpacked materials can be recycled in order to dispose of them according local legislation. Be sure to destroy plastic components to prevent any hazards (suffocation) to children.

## PERSONNEL REQUIREMENTS

We recommend that the operations to move the display case be handled by personnel accustomed to using hoisting equipment, in full compliance with the safety standards in force.

## HANDLING THE DISPLAY CASE

The display case can be lifted with a fork-lift truck or with any other suitable means with a minimum capacity of twice the weight of the display case (see the specific nameplate). Operators running the hoisting equipment must remain at an adequate distance from the hoisted part and must ensure that no people or property are exposed to danger if the display case should drop. Movements must be slow and continuous to prevent the case from tipping over, etc.

This chapter offers various general information on the purposes of the display case, describing its main functions and use limitations.

### ATTENTION

**Damages caused by handling errors are not covered by the WARRANTY.**

This chapter offers various general information on the purposes of the display case, describing its main functions and use limitations.

## OBJECTIVE OF THE ICE CREAM DISPLAY CASE

The **BRIO** line of ice cream display cases has been designed to maintain the temperature of the ice cream and not to lower it. Therefore, the ice cream can be put in the case only if it is already cooled and has thus reached its preservation temperature. A sunken display section holds the ice cream tubs. Located in the lower part of the window is a cooling system that generates cold "temperature-controlled" air and sends it into the display section via specific channels (Fig. 8). Special attention has been paid to studying the safety systems for both the operator and the surrounding environment. Given their specific function, the display cases cannot be used for other purposes, nor can the manufacturer envision other use modes.

## OPERATOR

No other special technical knowledge is required to use the display cases. Attentive reading of this manual is sufficient. However, it is essential to remember that experience and knowledge of the product to be handled are a very important factor.

## USE OF THE DISPLAY CASE

The display cases from the **BRIO** line are intended for small-business and industrial use. The room or area in which the display case is to be installed must have the following characteristics (Fig. 9):

- Indoors
- Minimum temperature of 16°C
- Maximum temperature of 30°C
- Relative humidity (RH), 55%
- Illumination: 100 lx (this value may change from one country to the next)
- No explosive gases

## SAFETY PRECAUTIONS

A prudent operator is the best operator. Most accidents can be avoided by observing a few precautions.

## SAFETY REGULATIONS DURING USE

To ensure accident prevention, you must read and observe the following precautions before installing the display case and turning it on.

The latter operation must be carried out exclusively by authorized personnel trained on how to use the display case.

- When this manual discusses switches and other components, it indicates if they are to the right or left of the display case.

- In most situations, the terms "**left**" and "**right**" refer to the position of the operator standing in front of the work surface and facing forward (Figure 10), unless otherwise specified.

- Never allow anyone to use the display case without proper instruction. In many countries, it is legally mandatory for all operators to receive due instruction on the exact use and operating procedures of the display case and on safety methods prior to use.

- Carefully read the instructions manual before using the display case.

- Failure to observe use regulations can cause accidents.

- Make sure that each piece of equipment or accessory is installed correctly and that they are also approved for use on this display case.

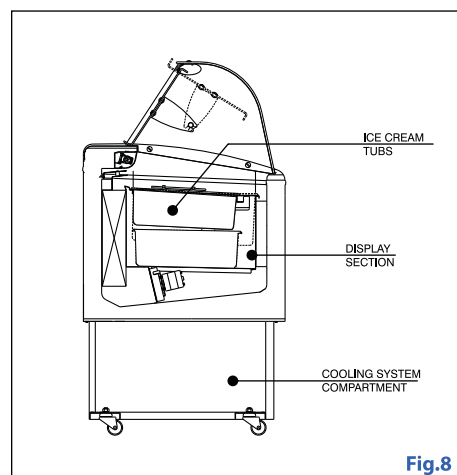


Fig.8

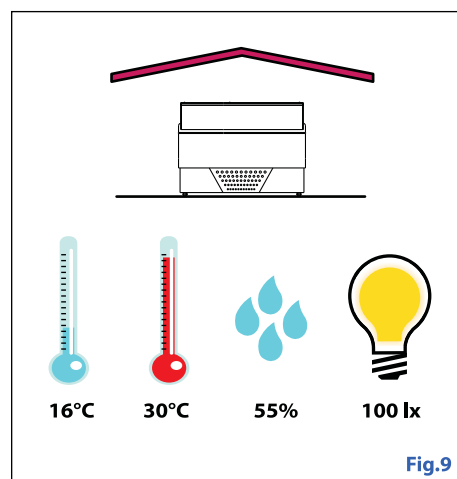


Fig.9

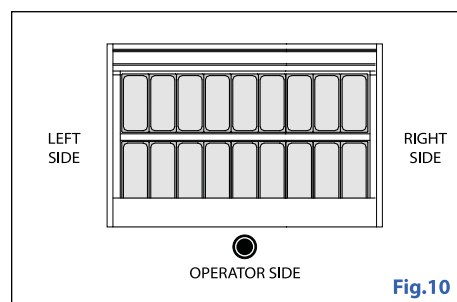


Fig.10



## GENERAL INFORMATION

This chapter offers a technical description of the display case and its operation. It supplies all the information deemed useful for the operator and maintenance personnel so they can gain a better understanding of correct operation to enable more rapid identification of any faults or malfunctions (fig.11-12).

**DISPLAY SECTION** - The display section is the area in the display case that holds the tubs of ice cream. Its dimensions will vary based on the model, while all the features are the same. The display section is mounted with all the elements required to house the tubs. Thanks to the careful design achieved by ITAL PROGET's technical staff, the customer has an excellent view of the contents in the display section. Regardless of the type of display case, all the display sections are equipped with lighting to ensure excellent visibility of the contents by the customer, even at night or in particularly dark rooms.

**GLASS STRUCTURE** - The glass structure is composed of two glass side panels and a front window that makes it possible to:

- protect the contents of the display section from foreign matter
- create a system that, together with the other elements, can guarantee the technical characteristics of the display case.

The glass is made with a specific and carefully-designed geometric shape in order to ensure maximum safety for the operator and above all for the client. All the glass can be dismantled simply by removing the screws and the connection bar. We recommend performing these operations with the maximum care, observing the indications listed in the maintenance chapter. The glass structure is completed by the curtain. This is a mobile component to allow access to the internal part of the display section in order to reach the ice cream.

**WORK COUNTER** - The "operator side" work counter is a continuance of the display section and it is used by the operator as a counter while he is preparing the product to be served. It is made of stainless steel, and it is fastened to the display section with screws.

**MOTOR COMPARTMENT** - The motor compartment is located in the lower section of the display case and all the components required for machine operation are positioned together in a unit referred to as the condenser unit.

The main components of the condenser unit are:

- Compressor
- Condenser
- Fan
- Condensation evaporation tub
- Solenoid valve
- Filter

The motor compartment is protected by a casing and grid that are bolted on to ensure maximum safety. In particular, during normal operation no one is able to access it and come into contact with live or moving elements.

**Only qualified technicians are allowed to access it**, observing safety and maintenance regulations.

**CONTROL PANEL** - The control panel is the element that manages the operation of the display case.

This management (temperature control and maintenance, defrosting) is entrusted to a command switchboard. In any event, the operator can utilize this component to change the temperature inside the display section.

Two push-buttons located on the control panel make it possible to turn the display case on and off, respectively, and to turn the internal lighting on or off (details 3-4, Fig.13), with a signal light that indicates compressor shutdown (detail 5, Fig.13).

**Verify that when the display case is installed, the general switch is lit (detail 2, Fig.13).**

When the main switch is on, this guarantees the operation of the oil-heating resistor inside the compressor (this is independent of the start-up of the display case).

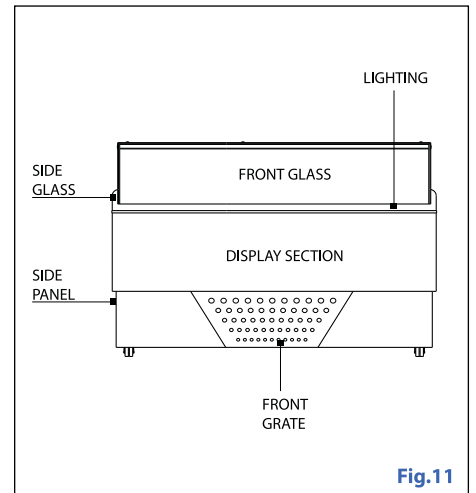


Fig.11

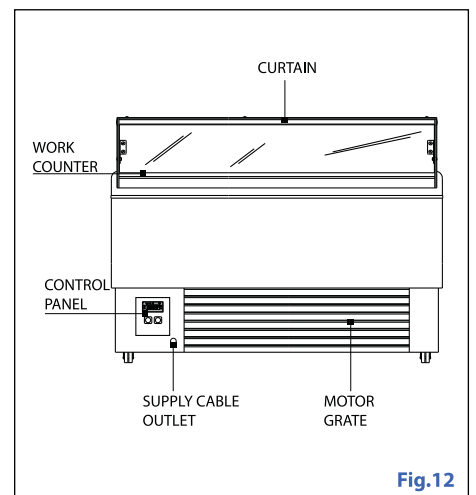
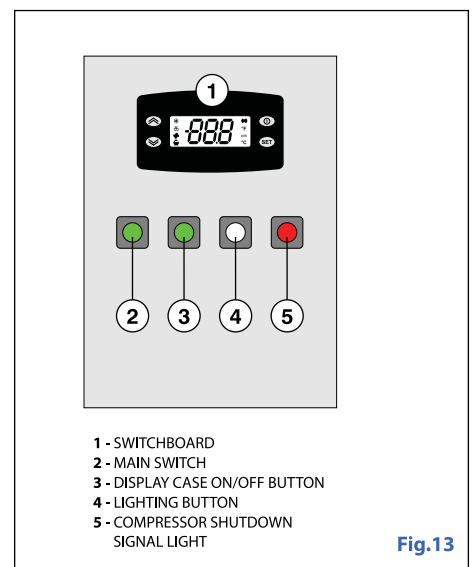


Fig.12



- 1 - SWITCHBOARD
- 2 - MAIN SWITCH
- 3 - DISPLAY CASE ON/OFF BUTTON
- 4 - LIGHTING BUTTON
- 5 - COMPRESSOR SHUTDOWN SIGNAL LIGHT

Fig.13



## GENERAL INFORMATION

This chapter offers all the technical information needed for installment operations, in accordance with the regulations in force. The installation and test of proper display case operation must be carried out by **qualified personnel in full respect of the regulations in force** and of the attached assembly instructions. In the event of installations that do not comply with the recommended installation, **Ital Proget** declines any responsibility for personal injuries and/or property damage.

## POSITIONING

The position of the display case is a very important factor that can compromise proper machine operation. Correct positioning influences the life of the display case and its components. Above all, however, it affects system operating expenses.

We advise you to carefully follow the instructions below; our Technical Servicing Office can give you any additional clarifications that may be needed.

### ⚠ ATTENTION

#### NEVER PERFORM ANY OPERATIONS THAT ARE NOT CLEAR

##### - NEVER place the display case near:

- Doors
- Windows
- Sources of heat (e.g. radiators, heaters, etc.)

##### - The display case must be protected from direct sunlight.

- **NEVER place the display case outdoors**, since atmospheric agents will damage it, making it unreliable and dangerous for the operator and customers.

- **It is necessary to NEVER position boxes or other** that can prevent the passage of the air in front of the cooling grids of the condensing unit (fig.16).

- **The display case must be connected** to a plug with an omni-polar switch upstream to ensure disconnection from the power mains. The minimum opening distance of the contacts must be at least 3 mm, sized for the load and compliant with the regulations currently in force.

- **Do not place** the power cable in a transit area. We also recommend protecting the cable with trunking anchored to the floor.

- **NEVER touch** the power plug if your hands are wet.

- **Verify** that the power mains network is earthed in accordance with the regulations in force (fig.17).

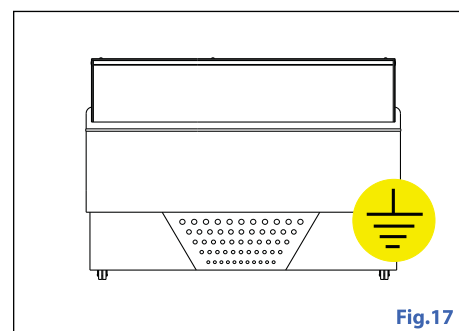
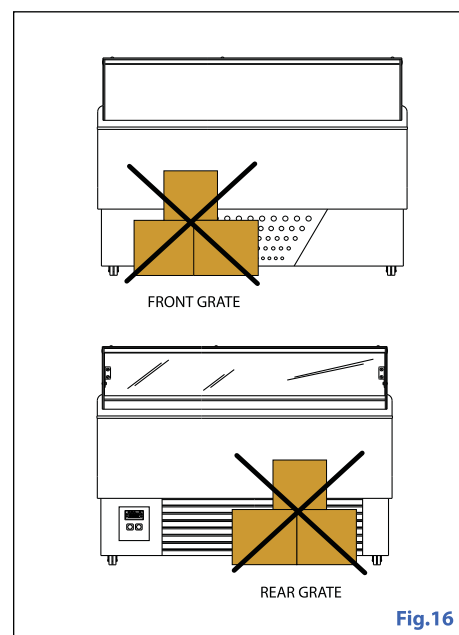
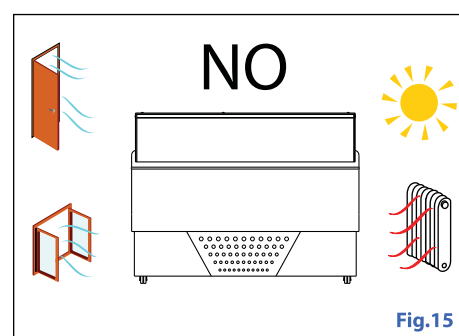
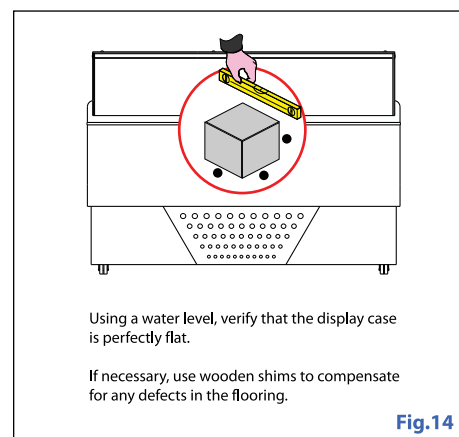
- **NEVER insert any** adapters or multiple plugs on the supply plug used to connect the display case.

- **NEVER use** extensions to connect the display case to the mains.

- **Verify** that the mains voltage complies with the data listed on the nameplate of the machine (maximum allowable variation +/-6%).

### ⚠ ATTENTION

**ITAL PROGET declines any responsibility for personal injuries or property damage caused by incorrect installation.**



**GENERAL INFORMATION**

This chapter offers instructions for correct use ice cream display case.

**INITIAL STARTUP OF THE DISPLAY CASE**

Before starting up the display case, make sure there are no remaining pieces of the packaging inside the display section and then clean the display case thoroughly.

**POSITIONING THE TUBS**

Placement of the tubs inside the display section is an easy operation that is also very important for the operation of the display case and proper ice cream conservation. There is a sticker inside the display section indicating the loading limit of the display case. This reference allows you to get maximum performance from the display case and optimum product conservation.

**Never superpose** the ice cream tubs (fig.18).

**Never exceed** the loading limits: this will damage both the product and the display case.

**USING THE SWITCHBOARD**

The control panel contains all the instruments that make it possible to manage the display case, as indicated in Fig. 19.

The control switchboard is supplied with a standard setting established by the manufacturer. However, the operator can intervene on the switchboard to vary the temperature inside the display section and to perform additional defrosting.

**1) SETTING OF THE EXERCISE TEMPERATURE:**

Press the **SET** button  
-the writing "**SET**" appears.

To visualise the value of the SETPOINT press the "**SET**" button again.

The value of the **SETPOINT** appears on the display.  
To vary the value of the **SETPOINT**, operate within 15 seconds, on the "**UP**" and "**DOWN**" buttons.

**2) MANUAL ACTIVATION FOR DEFROSTING**

The manual activation of the defrosting cycle is obtained by pressing the "**UP**" button for 5 seconds. If there are not the correct conditions for defrosting, (for example the temperature of the evaporator probe is higher than the temperature at the end of defrosting), the display will flash 3 times, to signal that the operation will not be carried out.

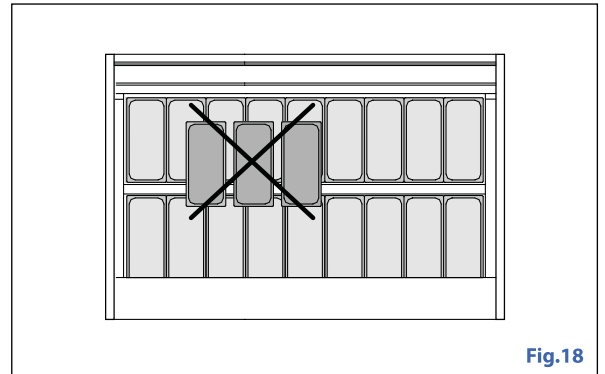


Fig.18

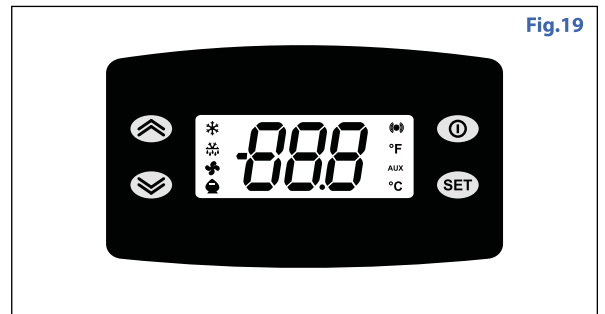


Fig.19

|  |  |
|--|--|
| <p><b>UP Button:</b></p> <p><b>Press and release</b><br/>- Runs through the menu<br/>- Increases the values<br/><b>Press for at least 5 sec</b><br/>- ctivates manual defrosting</p>                       | <p><b>Alarm LED</b></p> <p><b>Permanently on:</b> alarm active<br/><b>Flashing:</b> alarm acknowledged<br/><b>Off:</b> otherwise</p>                                     |
| <p><b>DOWN Button:</b></p> <p><b>Press and release</b><br/>- Runs through the menu<br/>- Decreases the values</p>  | <p><b>Fans LED</b></p> <p><b>Permanently on:</b> fans active<br/><b>Off:</b> otherwise</p>   |
| <p><b>fnc Button:</b></p> <p><b>Press and release</b><br/>- Returns to the previous menu level<br/>- Confirms parameter value<br/><b>Press for at least 5 sec</b><br/>- Activates the Standby function</p> | <p><b>Reduced SET / Economy LED</b></p> <p><b>Flashing:</b> economy Setpoint active<br/><b>Quick flashing:</b> access to level2 parameters<br/><b>Off:</b> otherwise</p> |
| <p><b>set Button:</b></p> <p><b>Press and release</b><br/>- Visualises the alarms<br/>- Visualises the Setpoint</p>  | <p><b>°C LED</b></p> <p><b>Permanently on:</b> °C setting (dro =0)<br/><b>Off:</b> otherwise</p>   |
| <p><b>Compressor LED</b></p> <p><b>Permanently on:</b> compressor active<br/><b>Flashing:</b> a delay, a protection or a locked start-up<br/><b>Off:</b> otherwise</p>                                     | <p><b>°F LED</b></p> <p><b>Permanently on:</b> °F setting (dro =1)<br/><b>Off:</b> otherwise</p>   |
| <p><b>Defrost LED</b></p> <p><b>Permanently on:</b> defrost active<br/><b>Flashing:</b> manual or D.I. activation<br/><b>Off:</b> otherwise</p>  | <p><b>AUX LED</b></p> <p><b>Permanently on:</b> Aux output active<br/><b>Flashing:</b> manual or D.I. activation of Deep Cooling</p>                                     |

## GENERAL INFORMATION

This chapter offers all the technical information required to conduct regular and extraordinary maintenance in compliance with the regulations in force.

### ⚠ ATTENTION

#### **BEFORE STARTING ANY MAINTENANCE WORK OR OPERATOR CHECKS, YOU MUST:**

- **Verify that the display case is turned off and that it is disconnected from the power mains.**
- **Set up a sign indicating the work that is being done.**
- **If necessary, procure adequate lifting equipment.**
- **Verify that the operations to be done will not injure personnel or damage nearby machinery.**

If the display case has not been used for a long time (*winter season*), we recommend the following procedures before turning it on again.

- Thoroughly clean the display section
- Thoroughly clean the condenser
- Thoroughly clean the glass structure
- Thoroughly clean the external structure
- Check the ventilator fans to be sure they are not clogged.

### ⚠ ATTENTION

**Incorrect or poor maintenance can make the display case hazardous to the operator and the personnel working near it.**

## CLASSIFICATION OF INTERVENTIONS

Maintenance work falls into two categories:

• Normal maintenance: defined as work done to maintain normal operating conditions for the display case, i.e. without requiring the replacement of any parts. This includes:

- Maintenance during the first ten hours of operation.
- Weekly maintenance work.
- Monthly maintenance work.
- Work done every six months.
- Work done annually.

• Extraordinary maintenance: defined as work comprising:

- Work required due to malfunctions;
- Work to be done at long intervals, i.e. work corresponding to the end of the work life of a main part and requiring the interruption of display case operation.

## REQUIREMENTS FOR MAINTENANCE PERSONNEL

Maintenance of these machines must be conducted **SOLELY** by qualified personnel specializing in working with refrigerating systems.

#### • **They must know and understand the written instructions, laws and regulations.**

The instructions drawn up by ITAL PROGET include the manual and the signs on the machine and control parts. The laws and regulations in force in the country where the machine is being used may entail greater safety provisions or identify further risks with respect to the ones listed in the manual.

#### • **They must have had actual training on the operations to be performed.**

Maintenance workers must have read the instructions in this manual and be familiar with all the commands so that they can work in full compliance of the safety regulations currently in force.

#### • **They must not be drug or alcohol abusers.**

The use of these substances impairs ready reflexes and coordination.

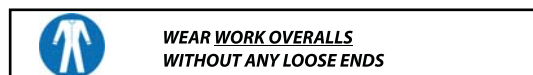
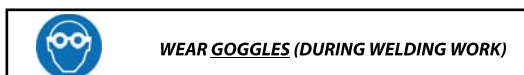
A technician who uses prescription drugs must obtain medical advice on his ability to conduct certain types of activities.

## CLOTHING

Before starting any work operation, maintenance workers must wear suitable clothing that respects the indications envisioned by current regulations. All the instruments that are used must be in perfect condition and be type-tested. The maintenance worker must **ALWAYS** check the supplied devices and replace them if they are damaged or are not compliant.

Listed below is a table with the devices the Ital Proget recommends.

### IMPORTANT TOOLS FOR MAINTENANCE PERSONNEL



**NORMAL MAINTENANCE**

**CLEAN AND DISMOUNTING THE GLASS STRUCTURE**

Maintenance of the glass structure is very simple but it must also be done carefully due to the type of elements it comprises. It must be cleaned weekly using warm water and Marseilles soap.

ATTENTION

**Once all the components of the glass structure have been dismantled, they must be cleaned and put in a safe place. NEVER remount the glass structure if there are damage elements or missing parts.**

To dismantle, proceed as follows (fig.20)

**CLEANING THE PLASTIC AND PAINTED PARTS**

Clean these parts with warm water and neutral Marseilles soap. Dry well with a soft cloth (the display case must be turned off and disconnected from the power mains).

ATTENTION

**NEVER use** inflammable or abrasive products.  
**NEVER spray** water to clean the display case.

**CLEANING THE DISPLAY SECTION**

To clean the display section, you need to remove **all** the ice cream tubs and place them in the refrigerator. At this point, you can clean this section. Use only warm water and neutral Marseilles soap. Dry well with a soft cloth (the display case must be turned off and disconnected from the power mains).

ATTENTION

**Verify that the display case is turned off and that it is disconnected from the power mains.**

**NEVER use** inflammable or abrasive products.  
**NEVER spray** water to clean the display case.

**EXTRAORDINARY MAINTENANCE**

**CLEANING THE CONDENSER**

The condenser must be cleaned every 30 days maximum and this involves removing the dust that collects in the fins.

ATTENTION

**Disconnect the display case from the power mains** and follow the instructions listed in the "General Information" section of this chapter. Cleaning must be done gently without bending or breaking the fins, using a stiff brush.

ATTENTION

**Do not use fluids to clean the condenser.**

To access the condenser, remove the front grid (fig.21), removing the screws that fasten it to the structure.

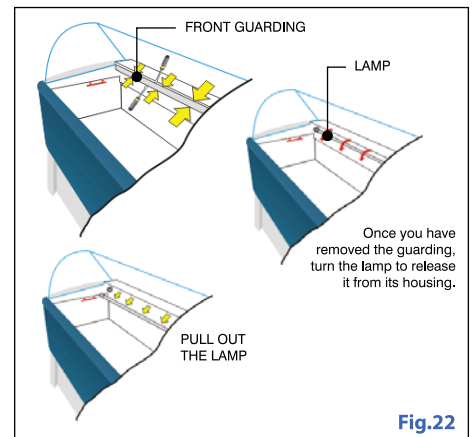
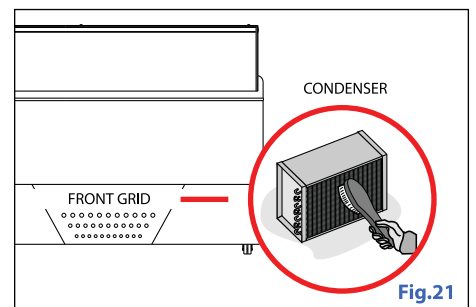
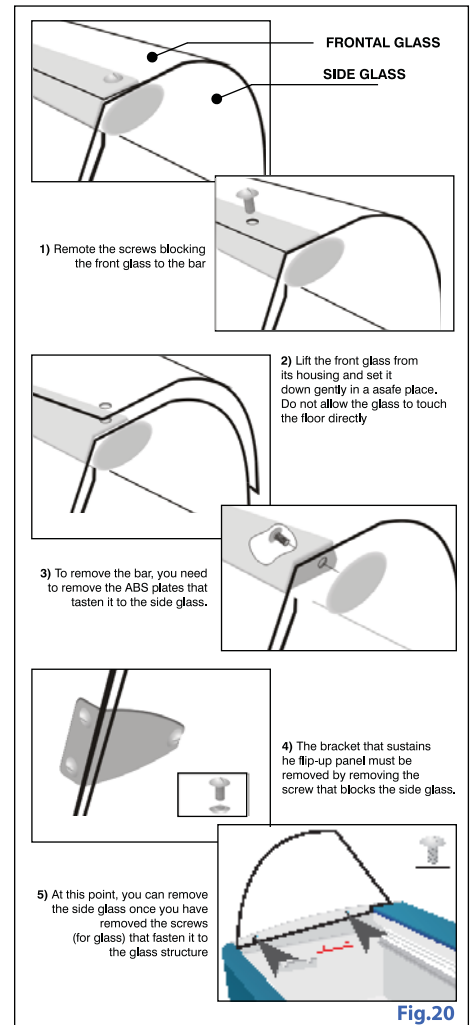
**REPLACING THE LAMP**

Follow the instructions in the "General information" section, wearing the required garments as indicated. To replace the lamp, you must remove the front guarding from its housing by pressing lightly, using a flat-head screwdriver.

**Proceed carefully to avoid breaking or scratching the guarding.**

ATTENTION

**Dispose of the old lamp properly, bringing it to a trash disposal center and following local regulations.**

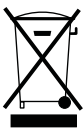


| FAULT   | CAUSE  | SOLUTIONS   |
|---|--|---|
| <ul style="list-style-type: none"> <li>• <b>Display case fails to start up</b></li> </ul>                 | <ul style="list-style-type: none"> <li>• No supply voltage</li> <li>• Main switch OFF</li> <li>• Display case switch OFF</li> <li>• Plug not connected</li> </ul>  | <ul style="list-style-type: none"> <li>• Check the supply cable</li> <li>• Verify that the main switch is set to ON</li> <li>• Verify that the display case switch is set to ON</li> <li>• Check the position of the plug</li> </ul>  |
| <ul style="list-style-type: none"> <li>• <b>Display case fails to reach proper temperature</b></li> </ul> | <ul style="list-style-type: none"> <li>• Switchboard not set correctly</li> <li>• Product exceeds loading limits</li> <li>• Product put in when too hot or moist</li> <li>• The shade is open too far</li> <li>• The condenser is obstructed</li> <li>• Electrical system fault</li> <li>• Refrigerating system fault</li> </ul> | <ul style="list-style-type: none"> <li>• Set proper temperature</li> <li>• Remove excess product</li> <li>• Check product</li> <li>• Close the shade</li> <li>• Clean the obstructed condenser with a vacuum cleaner</li> <li>• (*) Contact a qualified technician or ITALPROGET</li> <li>• (*) Contact a qualified technician or ITALPROGET</li> </ul> |
| <ul style="list-style-type: none"> <li>• <b>Display case noisy</b></li> </ul>                             | <ul style="list-style-type: none"> <li>• Floor unstable</li> <li>• Contact with external objects</li> <li>• Screws loose (e.g. glass structure or grids)</li> <li>• Refrigerating system fault</li> </ul>  | <ul style="list-style-type: none"> <li>• Use shims to stabilize the display case</li> <li>• Remove any external objects in contact with the display case</li> <li>• Check screw tightness</li> <li>• (*) Contact a qualified technician or ITALPROGET</li> </ul>  |

**Important:** If these solutions are not successful, please contact ITALPROGET's Technical Servicing Department. The operator must never intervene if intervention by qualified personnel is specified (\*).

## GENERAL INFORMATION

This chapter offers all the technical information required to dismantle the display case in compliance with the regulations currently in force.



**This symbol on the product or on its packaging indicates that this product may NOT be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.**

## DISMANTLING FOR DEMOLITION

If the display case is going to be scrapped, this creates two separate problems:

- The first one is administrative: The competent public offices must be notified that the machine is being scrapped so that the documentation they have on file about the machine can be canceled.

**The display case comes with a set of legal documents, such as the manual, the nameplate and the various authorizations that must be examined once the decision is made to demolish the machine.**

- The second one involves physically disposing of the display case: to do this, it is essential to contact specialized disposal companies or the manufacturer.

**Proceeding with demolition of the display case is absolutely forbidden unless these indications have been observed.**

## DISMANTLING FOR TRANSFER

If the display case needs to be dismantled in order to move it to another area, proceed as follows:

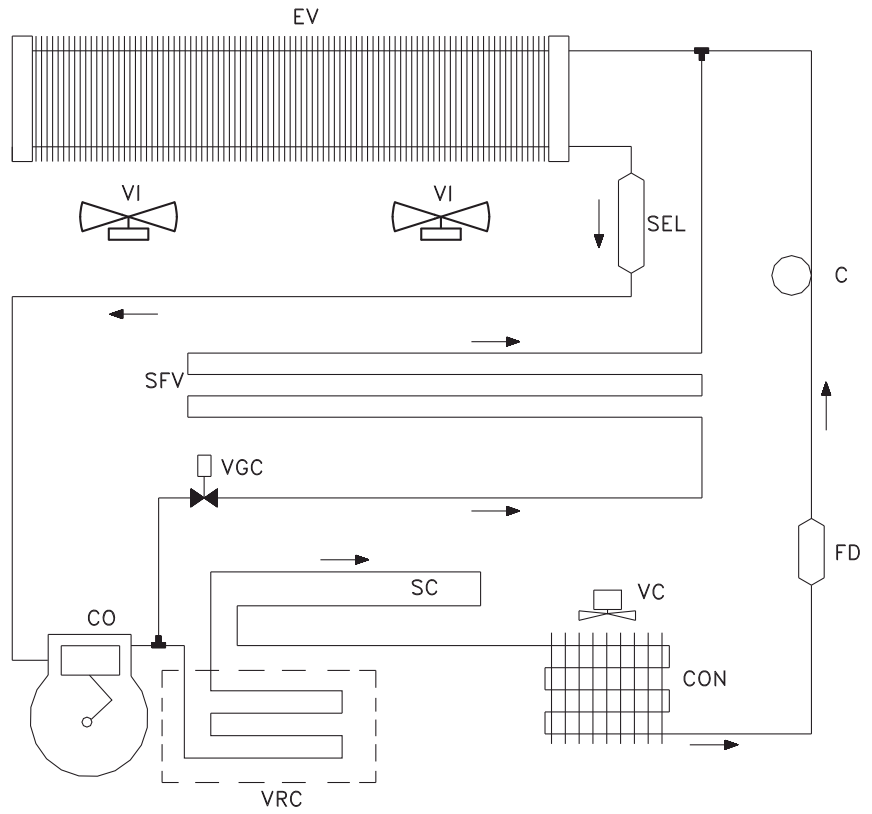
**Before starting to disassemble the machine, you are required to shut off the electrical supply. All of this must be done by setting up special signs to indicate what you are doing.**

Disassembly must be carried out by qualified personnel or directly by the manufacturer, being sure to separate and identify (mark) all the components.

- Perfect organization during disassembly guarantees perfect and safe reassembly.
- All the material must be kept in a dry area that is protected against weather.
- Before remounting the machine, check the material thoroughly for any damage.

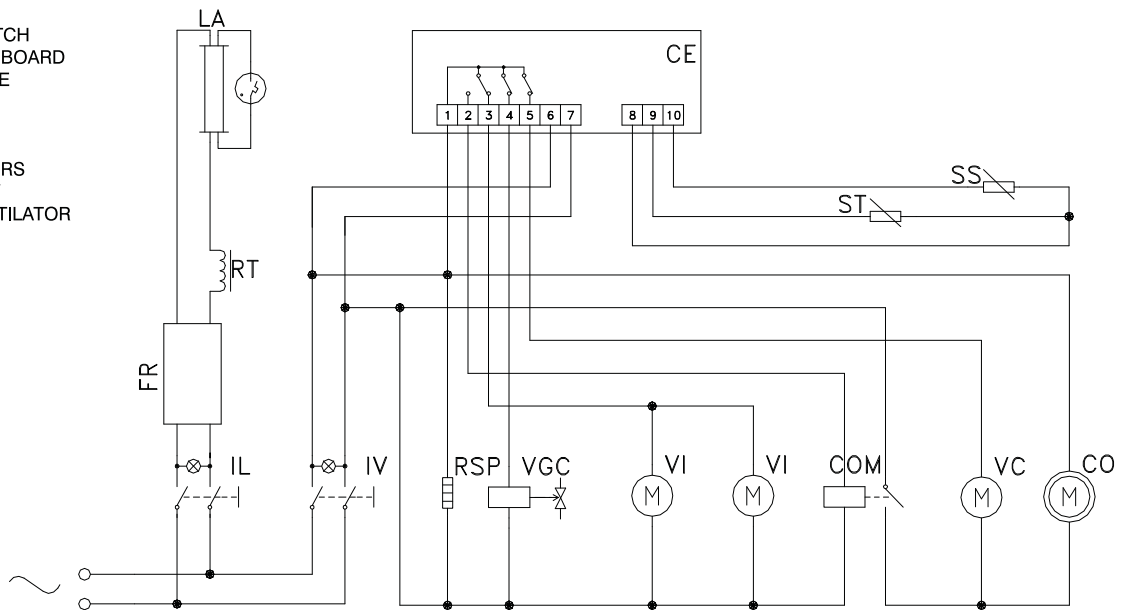
### REFRIGERATING SYSTEM DIAGRAM

- CO - COMPRESSOR
- VRC - CONDENSATION EVAPORATION TUB
- SC - GLASS HEATING
- CON - CONDENSER
- VC - CONDENSATION VENTILATOR
- FD - DEHYDRATING FILTER
- C - CAPILLARY
- EV - EVAPORATOR
- VI - EVAPORATOR FAN
- SEL - LIQUID SEPARATOR
- VGC - DEFROSTING SOLENOID VALVE
- SFV - DEFROSTING DRIP CAP



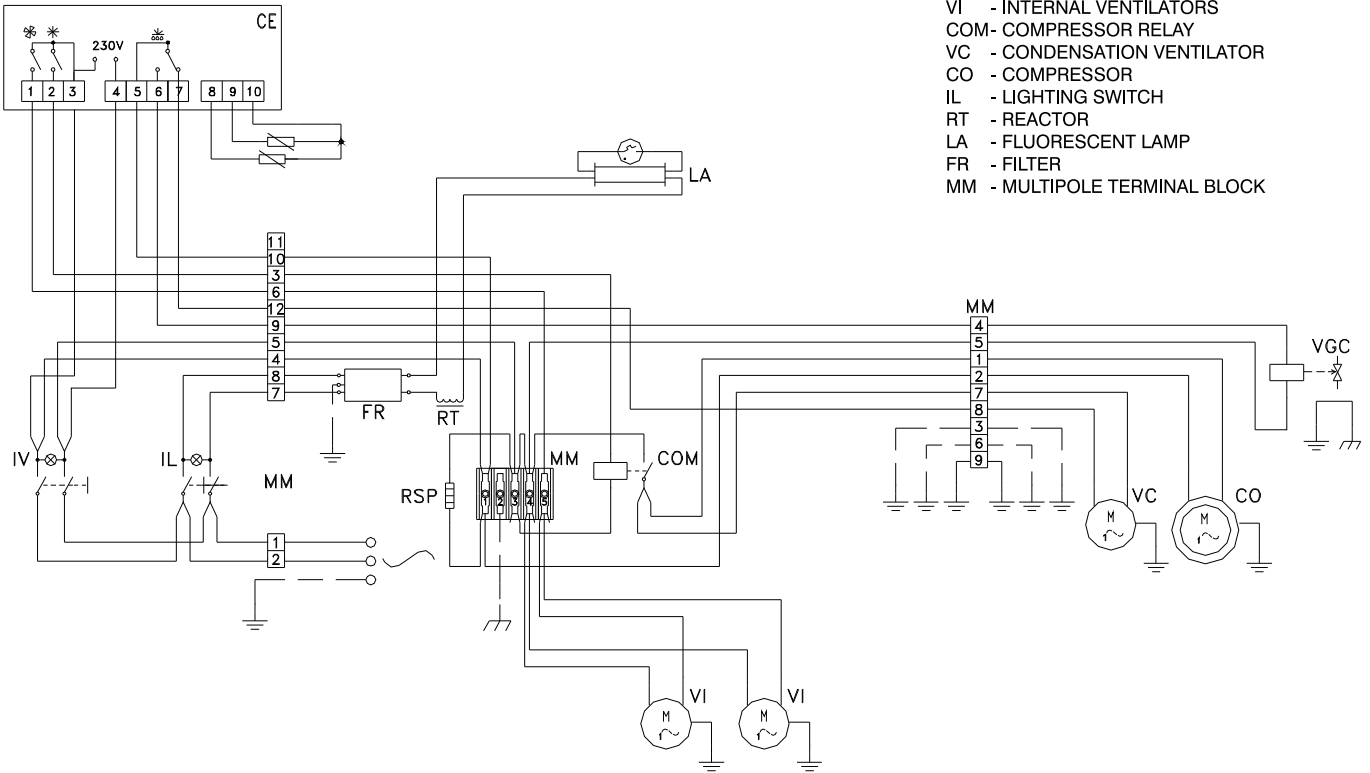
### FUNCTIONAL WIRING DIAGRAM

- IV - REFRIGERATING SWITCH
- CE - ELECTRONIC SWITCHBOARD
- ST - TEMPERATURE PROBE
- SS - DEFROSTING PROBE
- RSP - HEATING COIL
- VGC - SOLENOID VALVE
- VI - INTERNAL VENTILATORS
- COM - COMPRESSOR RELAY
- VC - CONDENSATION VENTILATOR
- CO - COMPRESSOR
- IL - LIGHTING SWITCH
- RT - REACTOR
- LA - FLUORESCENT LAMP
- FR - FILTER



### ELECTRICAL CABLING DIAGRAM

- IV - REFRIGERATING SWITCH
- CE - ELECTRONIC SWITCHBOARD
- ST - TEMPERATURE PROBE
- SS - DEFROSTING PROBE
- RSP - HEATING COIL
- VGS - HOT GAS VALVE
- VI - INTERNAL VENTILATORS
- COM- COMPRESSOR RELAY
- VC - CONDENSATION VENTILATOR
- CO - COMPRESSOR
- IL - LIGHTING SWITCH
- RT - REACTOR
- LA - FLUORESCENT LAMP
- FR - FILTER
- MM - MULTIPOLE TERMINAL BLOCK







Copy to be sent to the manufacturer - ITAL PROGET

**CORRECT INSTALLATION FORM**

CLIENT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_

Retailer's stamps:

Delivery date: \_\_\_\_\_

Display case model: \_\_\_\_\_

Following installation of the display case, the client hereby declares that the work was carried out correctly and in compliance with the present instructions manual. He further declares that he has seen its perfect operation and is aware of the instructions for correct use and proper operation and maintenance of the display case.

CLIENT signature \_\_\_\_\_

TEL: \_\_\_\_\_

ZIP CODE: \_\_\_\_\_

PROVINCE: \_\_\_\_\_

Installer's stamp:

First name: \_\_\_\_\_

Last name: \_\_\_\_\_

Address: \_\_\_\_\_ Zip code: \_\_\_\_\_

City: \_\_\_\_\_ Tel: \_\_\_\_\_

Delivery document: \_\_\_\_\_

Serial number: \_\_\_\_\_ Year: \_\_\_\_\_

Signature of the RETAILER/  
INSTALLER \_\_\_\_\_

\* This declaration is not valid unless filled out completely and signed.



Copy for the buyer to leave attached to the user manual

**CORRECT INSTALLATION FORM**

CLIENT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_

Retailer's stamps:

Delivery date: \_\_\_\_\_

Display case model: \_\_\_\_\_

Following installation of the display case, the client hereby declares that the work was carried out correctly and in compliance with the present instructions manual. He further declares that he has seen its perfect operation and is aware of the instructions for correct use and proper operation and maintenance of the display case.

CLIENT signature \_\_\_\_\_

TEL: \_\_\_\_\_

ZIP CODE: \_\_\_\_\_

PROVINCE: \_\_\_\_\_

Installer's stamp:

First name: \_\_\_\_\_

Last name: \_\_\_\_\_

Address: \_\_\_\_\_ Zip code: \_\_\_\_\_

City: \_\_\_\_\_ Tel: \_\_\_\_\_

Delivery document: \_\_\_\_\_

Serial number: \_\_\_\_\_ Year: \_\_\_\_\_

Signature of the RETAILER/  
INSTALLER \_\_\_\_\_

\* This declaration is not valid unless filled out completely and signed.



Italian Gelato Concepts Pty Limited  
Unit 1, 37 Mortimer Road,  
Acacia Ridge Qld 4110  
Office: +61 (0) 7 3162 7724  
Fax: +61 (0) 7 3162 7751  
Email: [info@italiangelato.com.au](mailto:info@italiangelato.com.au)



Style, quality and technology

Via Ponte di Ferro, 85I - 06084 BETTONA (PERUGIA)  
Tel. +39 075 9869071 - +39 075 987038 - Fax +39 075 987016