

# KELLY

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Sistema di Qualità  
**ISO 9001**  
Cert. CISQ/CSQ 9130,TAIF



Sistema di Qualità  
**ISO 14001**  
Cert. CIS ECO ISO 9191,ISA3



**KELLY**













**USE AND MAINTENANCE MANUAL**

**428000587037**

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The manual contains symbols to attract the reader's attention and highlight particularly important aspects. The table below illustrates the meaning of the various symbols used.

	Read the instructions manual		Use of protective clothing
	Danger: Live electrical parts		Requests for maintenance or operations must be carried out by qualified staff or technical after-sales centres.
	Attention / Danger		Important information
	Information		Operations that must be performed by two persons.
	Visual observation		Notes / Important notes
	Condensing unit on board		Remote condensing unit

## 1. MANUFACTURER

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## 2. WARRANTY TERMS AND CONDITIONS



The seller's warranty on the equipment is valid for **12 (TWELVE) months from the date of delivery.**

The warranty includes repairs or replacements of any faulty parts due to manufacturing processes or installation after written communication has been received, stating the appliance serial number and date of installation.

Not included in the warranty:

- all defects caused by incorrect use of the appliance
- all defects caused by incorrect electrical connection
- all defects caused by normal wear (for instance compressor failure and fluorescent lamp malfunctioning that is not due to manufacturing defects)
- calls for installation, technical instructions, adjustments and cleaning the condenser

If the seller's technical staff detect any tampering, unauthorised repairs or inappropriate use of appliance the warranty will be invalidated.

Shipment of components covered by the warranty is freight collect only.

Any damage to the appliance detected at the time of delivery due to transport must be reported on the same shipping note to claim compensation from the carrier.

The seller cannot be held liable in the event of damage to the preserved product due to appliance failure

### 3. EQUIPMENT IDENTIFICATION

- Find the label affixed on the machine to read the technical data.
- Check the machine model and the power supply voltage before you perform any operation.
- If you uncover mismatches, contact the manufacturer or the company that supplied the machine immediately.

1	Symbols of Compliance
2	Manufacturer's address
3	Production Order
4	Type
5	Model Name
6	Article
7	Serial Number
8	Production Date
9 - 10	Power supply Voltage and Frequency
11	Gross Capacity
12	Absorption at Rated Capacity
13	Absorption during Defrosting
14	Absorption of Heating Elements
15	Lamp Power
16	Fuse Value
17	Climate Class
18	Number of Motors
19	Type of Coolant
20	Amount of Coolant
21	Safety Class
22 - 23	Customer order
24	WEEE Mark

## 4. USE

This appliance is exclusively intended to:

- **Dry heated (Bain-Marie Hot display cabinet):** Exposure of pre-cooked food
- **Pastry display cabinets:** Exhibition and sale of confectionery, fresh, dried or snack
- **Ice cream display cabinets:** Exhibition and sale of ice cream
- **Display cabinets (Bread / Pizza):** Exhibition and sale of bread or pizza

The manufacturer is not liable for injury to persons or damage to property or the appliance itself caused by the displaying of products other than those described above.

Never use electric devices inside this appliance. Do not use mechanical or other means to accelerate the defrosting process, other than recommended by the manufacturer. Keep the air vents in the casing of the appliance or in the structure built into the wall free of obstructions.



### THE APPLIANCE IS INTENDED FOR PROFESSIONAL USE.

#### Uses not allowed

- Food preservation.
- Displaying and/or preserving non-food products (chemicals, pharmaceuticals, etc...).

## 4.1 COMPOSITION

The appliance is made up from a unique cabinet, onto which all devices necessary to make it a professional and efficient product for its declared use, are installed.

The appliance is made up from:

- Refrigeration system (refrigeration equipment)
- Condensing unit on board (UCB) PR remote (UCR)
- Electric plant
- Electronic control panel
- Insulated monolithic structure in ecological polyurethane

## 5. NOTES / IMPORTANT NOTES



The content of this manual is of technical nature and is owned by **ISA S.r.l.** It is forbidden to reproduce, circulate or modify all or part of its content without written consent. Any infringement will be legally pursued.

The manual and the conformity certificate are an integral part of the equipment and should always accompany the product in the event of a transfer to a new location or to a new owner. The user is responsible for the integrity of these documents, for their consultation and during the whole life cycle of the equipment itself. Keep this manual in a safe place. It should be available for consultation near the equipment at all times. If lost or destroyed, you can request a copy of the manual from **ISA S.r.l.** by specifying the exact model, serial number and year of manufacture. The manual reflects the manufacturing technology at the time of supply. The manufacturer reserves the right to modify its products in any way it deems necessary, with no obligation to update manuals and machines relating to previous manufacturing batches.

This equipment is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or by persons lacking the necessary experience and knowledge, unless they are supervised by a person responsible for their safety who has instructed them on how to use the equipment. Children should be supervised to ensure that they do not play with the equipment. Always refer to this manual before going ahead with any operation. Before doing any type of work, disconnect the equipment from the power supply. Any work on electric and electronic parts or cooling system components should only be carried out by trained personnel in compliance with current laws.

The Manufacturer cannot be held liable for any injury to persons or animals, or damage to the product itself in the event of:

- improper use of the equipment or use of the appliance by unqualified or unauthorised personnel
- failure to comply with current legislation
- incorrect installation and/or power supply faults;
- failure to observe the instructions contained in this Manual;
- failure to follow the maintenance programme;
- Unauthorised modifications;
- installation of non-original spare parts in the equipment;
- installation and use of the equipment for purposes other than those for which the appliance was designed and sold;
- Tampering with or damage to the power supply cable.

Liability for applying the safety instructions contained in this manual is held by the technical personnel responsible for the intended use of the equipment, who should ensure that authorised personnel:

- are qualified to carry out the requested activity;
- Are aware of, and carefully comply with, the instructions contained in this document;
- are aware of, and apply, the general safety standards applicable to the equipment

The buyer is responsible for training personnel using the appliance on the risks, safety devices and general health and safety rules required by the laws of the country where the appliance is installed. Users/operators should be aware of the position of all the controls and how they work, as well as of the features of the appliance.

They should also read this manual in its entirety.

Maintenance work should be conducted by qualified personnel after the appliance has been prepared adequately.



### **Danger**

Unauthorised tampering or replacement of one or more parts of the appliance, use of accessories that modify the use of the same and use of spare parts different to those recommended, can become the cause of injury.



### **Danger**

Any work conducted on the on the appliance **must** involve disconnection from the power socket and in any case, none of the protective elements (grid, casing) should be removed by non-qualified staff. The appliance should not be operated when these protective elements have been removed.

## STAFF TRAINING

The buyer is responsible for ensuring personnel who will use the appliance and maintenance technical staff are instructed and trained adequately.

The manufacturer is available for advice, clarifications, etc. so that the operator and technical staff can use the appliance correctly.

To ensure the operator's safety, appliance devices should be kept in constant working order. This manual is intended to illustrate the use and maintenance of the appliance. The operator has a responsibility and duty to carefully observe the instructions contained within it.

Failure to comply with safety standards may result in injury to personnel and damage to the equipment components and control unit. The user can contact the dealer to request additional information not contained in this document, or suggest improvements, at any time.



Before the product is delivered to the customer, it is essential that a **trained technical member of staff** checks that the appliance is operating correctly in order to achieve maximum performance.

## INTRODUCTION

**ISA S.r.l.** employs materials of the best quality and as they enter the company, we constantly monitor their storage and the use as part of the manufacturing process to prevent damage, deterioration and failure. All manufacturing elements are designed and manufactured in order to guarantee reliability and high safety standards. All appliances are subjected to a strict testing procedure before delivery. However, please bear in mind that product performance over time depends on correct use and adequate maintenance. This manual contains the necessary instructions to maintain the appliance's initial appearance and functions over time.



### Note

In order not to compromise functionality and safety of the appliance, the particularly complex installation and maintenance activities are not documented in this manual and are performed by specialised ISA s.r.l. technicians.

The Use and Maintenance manual contains the necessary information for understanding how the appliance works and how to use it properly, namely: the technical description of the various operational units, equipment and safety systems, operations, how to use the instruments and the interpretation of any diagnostics reports, main procedures and information relating to routine maintenance. For correct use of the appliance, the working environment should comply with current health and safety standards.

The safety requirements, indications, standards and notes illustrated in the various chapters of the manual are aimed at establishing a code of conduct and a series of obligations to be observed when performing the various activities, in order to create safe conditions for personnel, the equipment and the surrounding environment. The safety standards reported in this document are intended for trained, authorised personnel responsible for:

- Transport
- Installation
- Operation
- Management
- Maintenance
- Cleaning
- Putting out of order
- Disposal



### Attention

Reading this manual, albeit in full, is no substitute for adequate user experience. therefore it should only be considered a useful reminder of the technical features and the main operations to perform.



### Warning

The installers and users must read and understand the instructions contained herein before any operation on the appliance.





## 6. SAFETY

The appliance is equipped with safety devices.

### 6.1 SAFETY DEVICES PRESENT

Devices whose operation prevents the occurrence of risk situations in operating conditions (e.g. fuses, pressure switches, protections, magnet circuit breakers, etc.).

### 6.2 FIXED PROTECTIONS

Fixed protective devices consist of fixed perimeter shields, which are used to prevent external parts from entering the equipment.



#### **Danger**

It is prohibited to re-start the appliance following maintenance without having correctly restores the panels.



#### **Visual Check**

You should check the integrity of fixed panels and corresponding fixings to the frame, focussing in particular on the protective panels.

### 6.3 ISOLATING THE ELECTRIC POWER SUPPLY

Before conducting any maintenance work on the equipment or part of it, it is necessary to section the power supply that powers it.



#### **Danger**

In the event of maintenance operations in which the operator cannot prevent accidental closure of the circuit by others, to totally disconnect the appliance from the mains electricity.

### 6.4 RESIDUAL RISKS

During design the manufacturer examined all the areas or parts at risk. Therefore, all necessary precautions have been taken to prevent risks to persons and damage to the appliance.



#### **Attention**

Periodically check that all safety devices are operating correctly.  
Do not remove the fixed guards.  
Do not introduce objects or tools into the work area.

Although the appliance is fitted with the safety devices prepared, there are still some risks that cannot be eliminated, but reduced via corrective actions by the final integrator and correct operational procedures.

### 6.5 RISKS OF CONTACT WITH LIVE PARTS

Risk of breaking or damaging the electrical components of the appliance, with a possible reduction in safety levels, following a short circuit.

Before connecting the electricity supply, make sure there is no ongoing maintenance work.



#### **Attention**

Before making the connection, check that the d.c. current in the installation point does not exceed that indicated on the protections switches present in the electric control board. If this is not the case, the user must envision the relevant limiting devices.  
It is strictly forbidden to conduct any electrical modification, in order to prevent additional unforeseen hazards and risks.

## 6.6 FIRE



### **Danger**

In the event of a fire, immediately disconnect the master switch from the main power supply line.

## 6.7 EXPLOSIVE ATMOSPHERE

The equipment must not be located in an area classified as an explosion risk according to 1999/92/EC such as:

### **Zone 0**

An area in which there is a permanent, long-lasting or frequently explosive atmosphere made up of a mixture of air and flammable substances in the form of gases, fumes or steam.

### **Zone 1**

An area in which the formation of an explosive atmosphere, made up of a mixture of air and flammable substances in the form of gases, fumes or steam is occasionally probable during normal activities.

### **Zone 20**

An area in which there is a permanent, long-lasting or frequently explosive atmosphere in the form of clouds of combustible dust in the air.

### **Zone 21**

An area in which the formation of an explosive atmosphere in the form of clouds of combustible dust is occasionally probable during normal activities.

## 6.8 SLIPPING



Any leaks in the areas surrounding the appliance may cause personnel to slip. Check that there are no leaks and keep these areas clean at all times.

## 6.9 TRIPPING



Generally untidy deposits of material may constitute a tripping hazard and a total or partial obstruction of emergency exit routes.

Ensure that operating and transit areas and emergency exit routes are free from obstacles in compliance with current legislation.

## 6.10 CIRCUIT FAULTS

Owing to potential faults, safety circuits may become less effective, which results in lower safety levels. You should check the operational condition of the appliance devices regularly.

## 6.11 WARNING SIGNS (if any)

The appliance is fitted with warning danger, warning and obligation signs defined in agreement with the Standard relative to the graphical signs to be used on plants.

The signs are located in clearly visible positions.



### **Attention**











The warning plates present on the appliance must not be removed.

The user is responsible for replacing warning signs that, owing to wear, become unreadable.

## 6.12 RISKS OF EXPLOSION

Do not store products that contain combustible gaseous propellants and explosive substances inside the appliance.

## 6.13 REFRIGERANTS (where applicable)

REFRIGERANT	DESCRIPTION
	<div>  <p>The refrigerant <b>R290</b> is a gas that is compatible with the environment, but <b>highly flammable</b>. Pay close attention during transport, installation and that the destruction not to damage the refrigerant pipelines.</p> <p><b>IN THE EVENT OF DAMAGE:</b> Keep flames or sources of ignition away from the appliance. Properly ventilate the premises for a few minutes. Turn the unit off, pull the plug. Inform customer support service. The more refrigerant containing an appliance, the greater must be the environment in which there is the unit. In areas too small, in the event of leakage can form a flammable mixture of air and gas. <b>The volume of the room where the appliance is installed must be at least 19 m<sup>3</sup> for each cooling system present in the room.</b></p> <p><b>WARNING</b> Maintenance must be performed by qualified personnel that has been to work with flammable refrigerants.</p>  </div>
	<div>  <p>The refrigerant <b>R600a</b> is a gas that is compatible with the environment, but <b>highly flammable</b>. Pay close attention during transport, installation and that the destruction not to damage the refrigerant pipelines.</p> <p><b>IN THE EVENT OF DAMAGE:</b> Keep flames or sources of ignition away from the appliance. Properly ventilate the premises for a few minutes. Turn the unit off, pull the plug. Inform customer support service. The more refrigerant containing an appliance, the greater must be the environment in which there is the unit. In areas too small, in the event of leakage can form a flammable mixture of air and gas. <b>The volume of the room where the appliance is installed must be at least 17 m<sup>3</sup> for each cooling system present in the room.</b></p> <p><b>WARNING</b> Maintenance must be performed by qualified personnel that has been to work with flammable refrigerants.</p>  </div>
	<div> <p>The refrigerant <b>R744</b> is a gas that is compatible with the environment. Pay close attention during transport, installation and that the destruction not to damage the refrigerant pipelines.</p> <p><b>IN THE EVENT OF DAMAGE:</b> Keep away from the flame or ignition sources. Properly ventilate the premises for a few minutes. Turn the unit off, pull the plug. Inform customer support service.</p> <div>  <p><b>WARNING</b> The refrigerant system is <b>High Pressure</b>. Do not tamper with the system, but call a specialised and qualified technician before disassembly. Maintenance must be performed exclusively by qualified staff.</p>  </div> <div>  <p><b>HIGH PRESSURE</b></p> </div> </div>

## 7. DISPOSAL OF WASTE MATERIAL

During normal operation, the appliance does not generate any environmental contamination. At the end of its life cycle, or if it is necessary to proceed to permanent decommissioning, we recommend following the procedures below:

### DISPOSAL (User)



The symbol, applied to either the product or its packaging, indicates that the product should not be considered as normal domestic waste, but should be taken to a waste collection point for the recycling of electrical and electronic appliances. The correct disposal of this product helps to prevent potential negative consequences that might derive from inadequate product disposal. For detailed information about recycling this product, contact your council, your local waste collection service or the store where you purchased the product.

### PROCEDURE FOR DISPOSAL and RECYCLING AT THE END OF APPLIANCE LIFE SPAN (AUTHORISED BODIES)

- Switch off the equipment and unplug the power supply cable.
- Remove the lamps (if installed). These should be disposed of separately.
- Remove the power units and the electronic cards. These should be disposed of separately.
- Remove all the independent parts (grids, casings, profiles, etc.) and group them according to shared features in order to access the heat exchangers, pipes, cables, etc. and be careful not to damage the cooling circuit.
- Remove all mobile parts (doors, sliding doors, glass parts, etc.) and group the various materials according to their features.
- Check the type of refrigerant on the plate positioned inside the counter; extract the refrigerant and dispose of it through authorised services.
- Disconnect the evaporator, the condenser, the compressor, the pipes and fans. These are made of copper, aluminium, steel and plastic and should therefore be disposed of separately.
- On removal of all guards and the various components from the frame, separate the different types of material making up the appliance (plastic, sheet steel, polyurethane, copper, etc) and collect them separately.



All recyclable materials and waste should be processed and recycled by professionals, in compliance with the laws in the country in question. The company responsible for recycling the materials should be registered and certified as a waste disposal service in accordance with the country in question



#### Attention

Illegal disposal of the product by the owner will result in administrative sanctions as required by current laws. Disposal of the product should comply with current laws on the disposal of coolant liquids and mineral oils.



#### Important

If the crossed wheelie bin sign is not present on the appliance, it means that the disposal of the product is not the manufacturer's responsibility. In this case, the Regulations regarding the disposal of waste in force are valid.



#### Additional information

Further information on the disposal of liquid coolant, oils and other substances is available on the safety data sheet corresponding to the substance itself.

## 8. INSTALLATION

This manual supplies the information necessary for correct unpacking, procedures for positioning and connection to mains electricity.

### 8.1 STORAGE AND UNPACKING

The appliance, with or without the packaging, should be carefully stored inside warehouses or in areas away from the elements and direct sunlight, at a temperature between **0** and **+40 °C**.



The appliance should only be moved by qualified personnel operating forklift trucks, the power of which should be suited to handling the weight of the product.  
During said operation the appliance **MUST** be placed on the special pallet supplied.



Unpack the appliance by removing the screws fixing it to the pallet.  
All packaging materials are recyclable and should be disposed of in accordance with local regulations.  
Please destroy "plastic" bags to prevent them from becoming hazardous to children (suffocation).

### 8.2 INSTALLATION - POSITIONING - ENVIRONMENTAL CONDITIONS



#### Attention

A dry room that can be ventilated is the suitable location for the appliance's installation. There should be a good air flow around the compressor/condensing unit. Therefore the area around the unit should not be obstructed by boxes or other objects.  
Position the appliance away from heat sources (radiators, stoves of all types, etc.) and away from the effects of continuous currents of air (e.g. caused by fans, air conditioning vents, etc.). If it is unavoidable to install near a heat source, use a suitable insulating plate.  
Also avoid exposure to direct sunlight; all of this causes the temperature inside the refrigerated compartment to rise with negative consequences on operation and energy consumption. Do not use the appliance outdoors and do not leave it exposed to rain.

### 8.3 ELECTRIC CONNECTION



#### Attention

Check that the network voltage matches the one displayed on the identification plate of the appliance, and that the power is adequate.  
Check on the socket that the power supply voltage provides rated voltage ( $\pm 10\%$ ) when you start up the compressor.  
The plug should be directly connected to the electrical socket. It is forbidden to connect the plug to the socket by means of multiple socket extensions or adaptors.  
The plant power supply socket must be fitted with a disconnection device from the mains electricity (dimensioned to the load and in compliance with Standards in force), which guarantees complete disconnection in category III (3) over-voltage conditions and therefore protects the circuits against earth faults, overloads and short circuits.  
Do not route the electricity cable in passageways.




#### Attention


Earthing is necessary and mandatory by law.

## 9. MAINTENANCE

The **Staff in charge of the appliance** must control and respect the expiry dates for maintenance, given in the table below, calling the authorised **Technical After-sales assistance** when indicated.

OPERATION	FREQUENCY				ORDINARY	EXTRAORDINARY	AUTHORISED PERSONNEL	
	Depending on the Use and Necessity	Monthly	six-month	Annual				
CLEANING THE EXTERNAL SURFACES	X				X		USER	
CLEANING THE ACCESSIBLE INTERNAL PARTS (without the use of tools)	X				X			
CONTROL POWER SUPPLY CABLE, PLUGS AND / OR ELECTRICAL SOCKETS			X		X			
INTEGRITY CONTROL SEAL		X			X			
FILTER CLEANING CONDENSING UNIT (whenever present)			X		X			
CLEANING THE DEFROSTING WATER COLLECTION TRAY	X				X		 TECHNICAL ASSISTANCE SERVICE	
CONDENSER CLEANING	X			X	X			
CHECK COMPRESSORE OIL LEVEL (whenever present)			X		X			
AIR TANK DRAINING (whenever present)			X		X			
CONTROL PNEUMATIC CONNECTIONS (whenever present)			X		X			
INTEGRITY CONTROL PIPE COOLING SYSTEM			X		X			
INSPECTION OF CABLES INTERNAL CONNECTIONS AND POWER			X		X			
CLEANING CONDENSATE DRYING SPONGES (whenever present)			X		X			
LAMP / LED REPLACEMENT (whenever present)						X		
CONTROL PANEL REPLACING (electronic control unit - thermostat - etc)						X		
REPLACEMENT POWER SUPPLY CABLE, PLUGS AND / OR ELECTRICAL SOCKETS						X		



Attention




After all maintenance it is **mandatory** to perform all electric safety tests in agreement with the IEC EN 50106 Standard.

## 10. FAULTS - TECHNICAL AFTER-SALES ASSISTANCE

If the appliance is not working properly or stops working, **before contacting** the **Customer support centre**, check the following:

FAULT	CAUSE	SOLUTION	AUTHORISED PERSONNEL
<b>THE APPLIANCE IS NOT WORKING</b>	Blown protective fuse	Previously find the cause of the intervention of the switch, and then re-introduce the new fuse.	<b>UTILIZZATORE</b>
	The master switch is open	Close the master switch.	
	The plug is not inserted	Insert the plug.	
	Electric black-out	If the black-out should be prolonged, transfer the product into an appropriate cold storage container.	
<b>THE INTERNAL TEMPERATURE IS NOT LOW ENOUGH</b>	Evaporator/s obstructed completely by ice	Carry out an additional defrosting cycle.	<b>USER</b>
	Wrong setting temperature	Set the appropriate temperature.	
	The appliance is affected by draughts or is exposed to direct or reflected sunlight	Remove any draughts and prevent any direct or reflected sunlight.	
	Insufficient cooling air flow rate of the air condenser	Remove anything that may affect air flow inside the condensing unit (paper sheets, cardboard, grids with an insufficient number of holes, etc.).	
	Internal fans at standstill or with fans damage		<b>TECHNICAL ASSISTANCE</b> 
	Internal ventilation is too high		
	Thermostat / Electronic control unit is not efficient	Replace the electronic control board. If the control unit is set up especially for must <b>R290</b> refrigerant, it must only be replaced with an original replacement from ISA. Replace the temperature probes only after checking which of the two is not operating efficiently.	
	Air condenser blocked by dust or dirt in general	Clean the condensing unit thoroughly. The air condenser or MAINTENANCE FREE, in particular heavy environments (eg presence of dust, the presence of excessive moisture, oiled vapours etc..) in order to avoid performance loss, needs accurate cleaning.	
	Insufficient refrigerant load in the cooling system	Find the cause behind the lower amounts of coolant and eliminate it. Top up the coolant. If necessary, empty the system before topping up.	
<b>THE COMPRESSOR DOES NOT START-UP OR OPERATES FOR A FEW MOMENTS</b>	No electric power supply to the appliance	Check if there is a power cut. Close the various switches on the power supply line.	<b>USER</b>
	The power supply voltage is too low	Check that the network voltage of the power supply cable is 220V +/- 10%.	
	Temperature set too high	If the set temperature is higher than that of the air in the display area, the compressor does not activate itself. Set a more suitable temperature if the current value is not low enough	
	The pressure switch (if any) was activated at maximum pressure	Check the reasons why the pressure switch is operating at maximum pressure levels, such as: air condensing unit blocked, condensing unit fan stopped, ambient temperature too high, pressure switch broken.	<b>TECHNICAL ASSISTANCE</b> 

## 10.1 ALARMS LIST (where present)

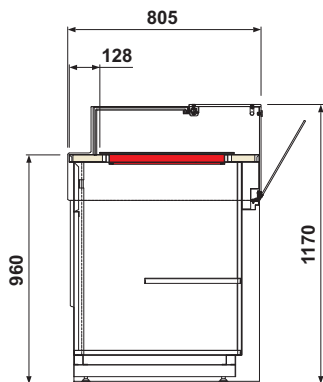
ALARM	DESCRIPTION	OUTPUTS	AUTHORISED PERSONNEL
			
P1 E0	Broken thermostat probe. Compressor output according to “CO <sub>n</sub> ” and “CO <sub>F</sub> ” parameters	<ul style="list-style-type: none"><li>• The alarm starts a few seconds after the probe breaks down; it stops a few seconds after the probe starts working again properly.</li><li>• We recommend checking the probe connections before replacing it.</li></ul>	
P2 E1	Broken evaporator probe. Set time for defrosting.	<ul style="list-style-type: none"><li>• The alarm starts a few seconds after the probe breaks down; it stops a few seconds after the probe starts working again properly.</li><li>• We recommend checking the probe connections before replacing it.</li></ul>	
HA HI	High temperature alarm.	<ul style="list-style-type: none"><li>• The alarm stops automatically on reaching the temperature set.</li><li>• Check programming.</li></ul>	
LA LO	Low temperature alarm.	<ul style="list-style-type: none"><li>• The alarm stops automatically on reaching the temperature set.</li><li>• Check programming.</li></ul>	
EA IA CB	External alarm.	<ul style="list-style-type: none"><li>• The external alarm stops after the digital infeed is deactivated, it is restored automatically.</li><li>• The alarm is linked to the intervention of the pressure switch and/or the compressor circuit breaker, when present.</li></ul>	
ETc RTF	Real time clock is broken.	<ul style="list-style-type: none"><li>• Reset the clock.</li><li>• If the alarm does not stop, replace the clock.</li></ul>	
EE	Machine parameter error.	<ul style="list-style-type: none"><li>• The instrument is damaged. It must be replaced.</li></ul>	
EF	Operating parameters error.	<ul style="list-style-type: none"><li>• The instrument is damaged. It must be replaced.</li></ul>	



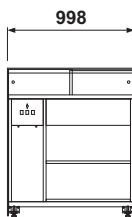
## 11. TECHNICAL SPECIFICATIONS (80)

### DRY HOT DISPLAY CABINETS (S)

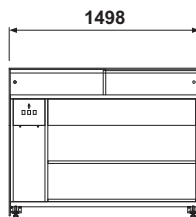
MODELS			
100	150	200	AE 90



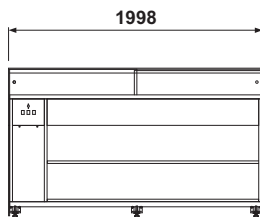
100
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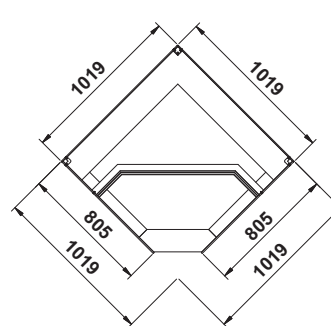
150
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200
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AE 90
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		100	150	200	AE 90
		S	S	S	S
External dimensions	L (mm)	998	1498	1998	1019
	P (mm)	805	805	805	805
	H (mm)	1170	1170	1170	1170
Refrigeration		NA	NA	NA	NA
Defrosting		NA	NA	NA	NA
Climate Class	N°	3	3	3	3
Environmental conditions	°C / %RH	25 / 60	25 / 60	25 / 60	25 / 60
Product class		S	S	S	S
Product temperature	°C	+65 / +80	+65 / +80	+65 / +80	+65 / +80
Temperature range	°C	NA	NA	NA	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		NA	NA	NA	NA
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)	W / A	1250 / 6	1900 / 9,2	2500 / 12,1	1250 / 6
Electrical input (Defrosting)	W / A	NA	NA	NA	NA
Weight (net)	Kg	90	110	130	110

NA: Not Applicable

**KELLY**

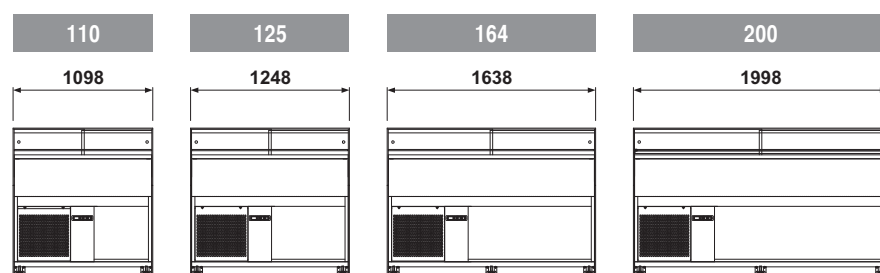
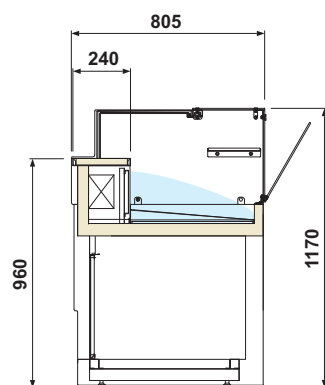
USE AND MAINTENANCE MANUAL

428000587037

## 11. TECHNICAL SPECIFICATIONS (80)

### PASTRY DISPLAY CABINETS AT STATIC REFRIGERATION

MODELS			
110	125	164	200



		110	125	164	200
		RS TN	RS TN	RS TN	RS TN
External dimensions	L (mm)	1098	1248	1638	1998
	P (mm)	805	805	805	805
	H (mm)	1170	1170	1170	1170
Refrigeration		Static	Static	Static	Static
Defrosting		Off Cycle	Off Cycle	Off Cycle	Off Cycle
Climate Class	N°	3	3	3	3
Environmental conditions	°C / %RH	25 / 60	25 / 60	25 / 60	25 / 60
Product class		H1	H1	H1	H1
Product temperature	°C	+1 / +10	+1 / +10	+1 / +10	+1 / +10
Temperature range	°C	NA	NA	NA	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		R404A (3784)	R404A (3784)	R404A (3784)	R404A (3784)
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)	W / A	350 / 2	350 / 2	450 / 2,8	540 / 3,7
Electrical input (Defrosting)	W / A	50 / 0,3	50 / 0,3	70 / 0,4	120 / 0,5
Weight (net)	Kg	150	160	170	190

NA: Not Applicable

**KELLY**

USE AND MAINTENANCE MANUAL

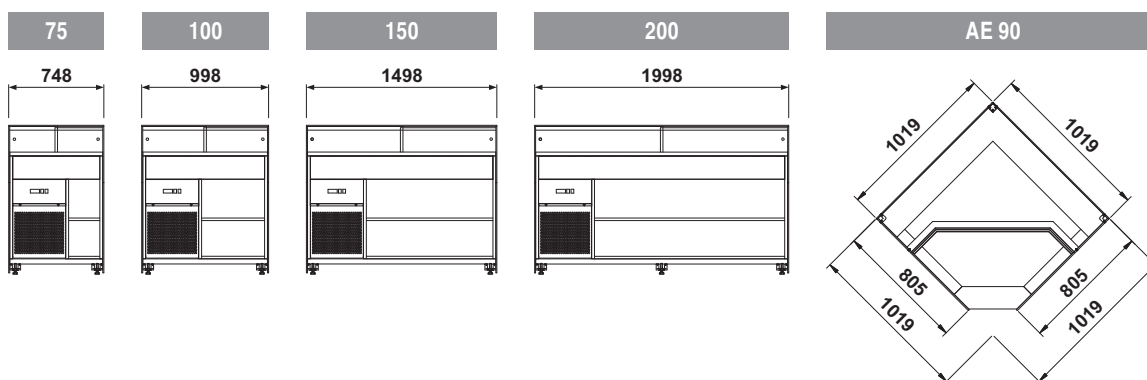
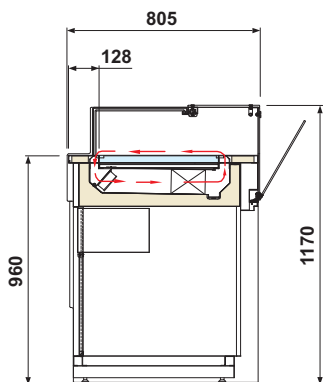
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EN

## 11. TECHNICAL SPECIFICATIONS (80)

### PASTRY DISPLAY CABINETS AT VENTILATED REFRIGERATION

MODELS				
75	100	150	200	AE90



		75	100	150	200	AE 90
		RV TN	RV TN	RV TN	RV TN	RV TN
External dimensions	L (mm)	748	958	1498	1998	1019
	P (mm)	805	805	805	805	805
	H (mm)	1170	1170	1170	1170	1170
Refrigeration		Ventilated	Ventilated	Ventilated	Ventilated	Ventilated
Defrosting		Off Cycle	Off Cycle	Off Cycle	Off Cycle	Off Cycle
Climate Class		N°	3	3	3	3
Environmental conditions		°C / %RH	25 / 60	25 / 60	25 / 60	25 / 60
Product class		H1	H1	H1	H1	H1
Product temperature		°C	+1 / +10	+1 / +10	+1 / +10	+1 / +10
Temperature range		°C	NA	NA	NA	NA
Safety class (CEI EN 60335-2-89)		N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		R404A (3784)	R404A (3784)	R404A (3784)	R404A (3784)	R404A (3784)
Power supply		V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)		W / A	600 / 2,2	800 / 3	900 / 3,5	600 / 2,2
Electrical input (Defrosting)		W / A	300 / 1,3	300 / 1,3	400 / 1,8	300 / 1,3
Weight (net)		Kg	70	90	110	130

NA: Not Applicable

**KELLY**

USE AND MAINTENANCE MANUAL

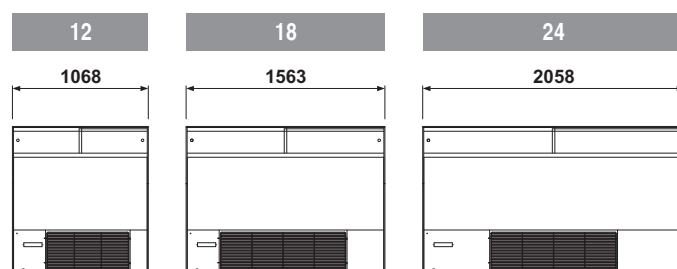
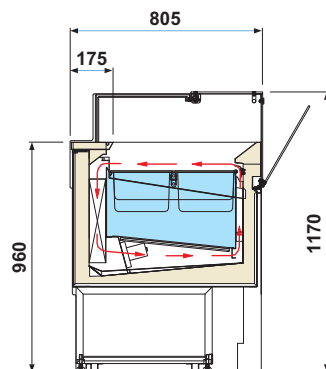
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## 11. TECHNICAL SPECIFICATIONS (80)

### ICE CREAM DISPLAY CABINETS AT VENTILATED REFRIGERATION

#### MAXIMA

MODELS		
12	18	24



		12	18	24
		RV TB	RV TB	RV TB
External dimensions	L (mm)	1068	1563	2058
	P (mm)	805	805	805
	H (mm)	1170	1170	1170
Refrigeration		Ventilated	Ventilated	Ventilated
Defrosting		Off Cycle	Off Cycle	Off Cycle
Climate Class	N°	4	4	4
Environmental conditions	°C / %RH	30 / 55	30 / 55	30 / 55
Product class		S	S	S
Product temperature	°C	-16 / -14	-16 / -14	-16 / -14
Temperature range	°C	NA	NA	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		R404A (3784)	R404A (3784)	R404A (3784)
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)	W / A	790 / 3,8	1350 / 6,5	1800 / 7,7
Electrical input (Defrosting)	W / A	1520 / 7,3	2470 / 12,2	2600 / 12,9
Weight (net)	Kg	200	280	375

NA: Not Applicable

**KELLY**

USE AND MAINTENANCE MANUAL

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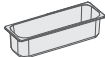



EN

## 11. TECHNICAL SPECIFICATIONS (80)

### ICE CREAM DISPLAY CABINETS AT VENTILATED REFRIGERATION MAXIMA

MODELS		
12	18	24

#### DISPLAY CONTAINERS ARRANGEMENT

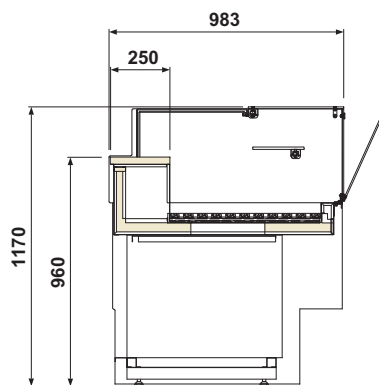
		12	18	24
lt <b>4.75</b> (260x157x170H)		12 	18 	24 
lt <b>9</b> (530x162x100H)		6 	9 	12 

## 11. TECHNICAL SPECIFICATIONS (100)

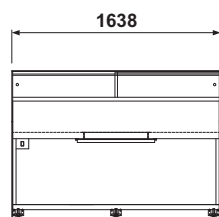
### BREAD DISPLAY CABINETS

#### MODELS

**164**



**164**



		<b>164</b>
External dimensions	L (mm)	1638
	P (mm)	983
	H (mm)	1170
Refrigeration		NA
Defrosting		NA
Climate Class	N°	3
Environmental conditions	°C / %RH	25 / 60
Product class		NA
Product temperature	°C	NA
Temperature range	°C	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C
Refrigerant (GWP)		NA
Power supply	V / ph / Hz	230 / 1 / 50
Electrical input (Standard)	W / A	140 / 0,6
Electrical input (Defrosting)	W / A	NA
Weight (net)	Kg	220
NA: Not Applicable		

**KELLY**

USE AND MAINTENANCE MANUAL

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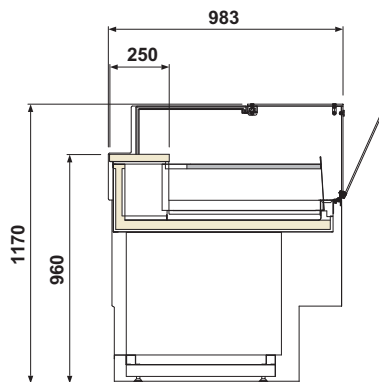
**EN**

## 11. TECHNICAL SPECIFICATIONS (100)

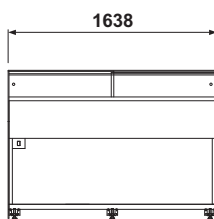
### DISPLAY CABINETS "PIZZA"

#### MODELS

**164**



**164**



		<b>164</b>
External dimensions	L (mm)	1638
	P (mm)	983
	H (mm)	1170
Refrigeration		NA
Defrosting		NA
Climate Class	N°	3
Environmental conditions	°C / %RH	25 / 60
Product class		NA
Product temperature	°C	NA
Temperature range	°C	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C
Refrigerant (GWP)		NA
Power supply	V / ph / Hz	230 / 1 / 50
Electrical input (Standard)	W / A	140 / 0,6
Electrical input (Defrosting)	W / A	NA
Weight (net)	Kg	220
NA: Not Applicable		

**KELLY**

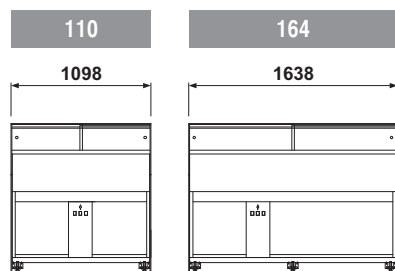
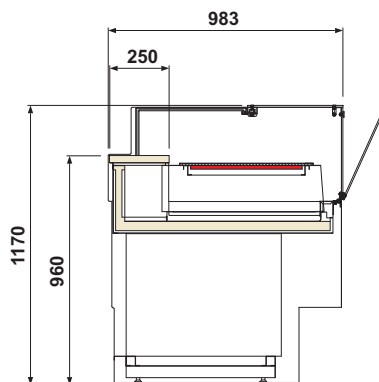
USE AND MAINTENANCE MANUAL

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## 11. TECHNICAL SPECIFICATIONS (100)

### DRY HOT DISPLAY CABINETS (S)

MODELS	
110	164



		110	164
		S	S
External dimensions	L (mm)	1098	1638
	P (mm)	983	983
	H (mm)	1170	1170
Refrigeration		NA	NA
Defrosting		NA	NA
Climate Class	N°	3	3
Environmental conditions	°C / %RH	25 / 60	25 / 60
Product class		S	S
Product temperature	°C	+65 / +80	+65 / +80
Temperature range	°C	NA	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		NA	NA
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)	W / A	1300 / 5,7	1900 / 8,3
Electrical input (Defrosting)	W / A	NA	NA
Weight (net)	Kg	150	180

NA: Not Applicable

**KELLY**

USE AND MAINTENANCE MANUAL

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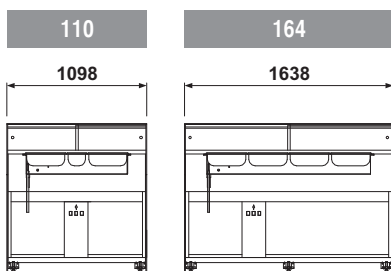
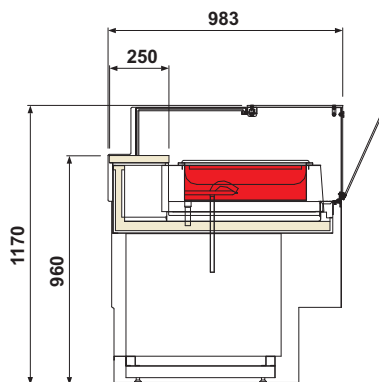
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## 11. TECHNICAL SPECIFICATIONS (100)

### BAIN-MARIE HOT DISPLAY CABINETS (S)

MODELS	
110	164



		110	164
		BM	BM
External dimensions	L (mm)	1098	1638
	P (mm)	983	983
	H (mm)	1170	1170
Refrigeration		NA	NA
Defrosting		NA	NA
Climate Class	N°	3	3
Environmental conditions	°C / %RH	25 / 60	25 / 60
Product class		S	S
Product temperature	°C	+65 / +80	+65 / +80
Temperature range	°C	NA	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		NA	NA
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)	W / A	1300 / 5,7	1900 / 8,3
Electrical input (Defrosting)	W / A	NA	NA
Weight (net)	Kg	150	180

NA: Not Applicable

**KELLY**

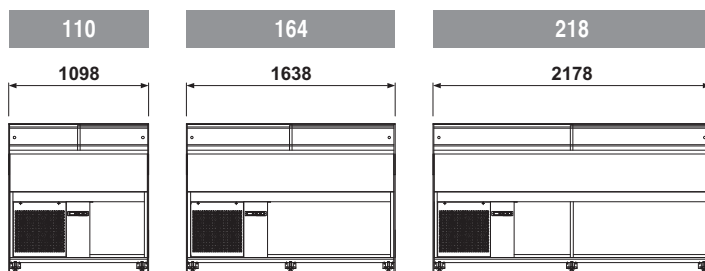
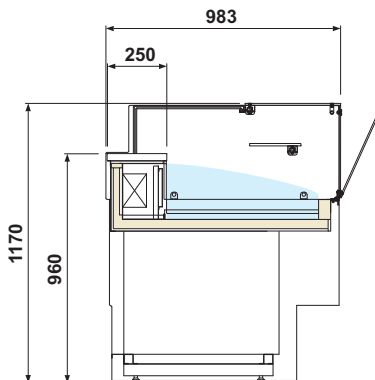
USE AND MAINTENANCE MANUAL

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## 11. TECHNICAL SPECIFICATIONS (100)

### PASTRY DISPLAY CABINETS AT STATIC REFRIGERATION

MODELS		
110	164	218



		110	164	218
		RS TN	RS TN	RS TN
External dimensions	L (mm)	1098	1638	2178
	P (mm)	983	983	983
	H (mm)	1170	1170	1170
Refrigeration		Static	Static	Static
Defrosting		Off Cycle	Off Cycle	Off Cycle
Climate Class	N°	3	3	3
Environmental conditions	°C / %RH	25 / 60	25 / 60	25 / 60
Product class		H1	H1	H1
Product temperature	°C	+1 / +10	+1 / +10	+1 / +10
Temperature range	°C	NA	NA	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		R404A (3784)	R404A (3784)	R404A (3784)
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)	W / A	700 / 3,8	730 / 3,9	880 / 4,8
Electrical input (Defrosting)	W / A	380 / 1,8	400 / 1,9	490 / 2,3
Weight (net)	Kg	150	180	210

NA: Not Applicable

**KELLY**

USE AND MAINTENANCE MANUAL

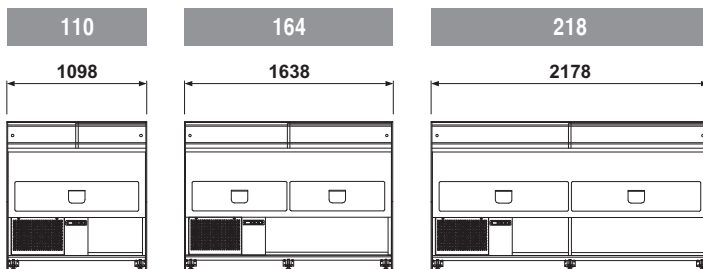
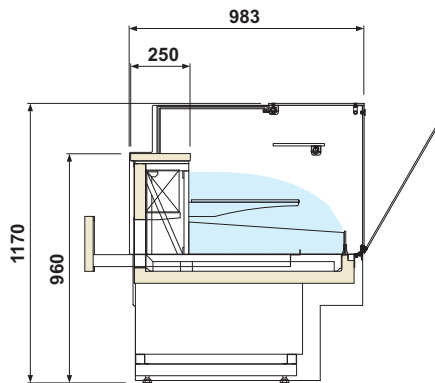
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EN

## 11. TECHNICAL SPECIFICATIONS (100)

### PASTRY DISPLAY CABINETS AT STATIC REFRIGERATION

MODELS		
110 1C	164 2C	218 2C



		110	164	218
		RS TN	RS TN	RS TN
		1C	2C	2C
External dimensions	L (mm)	1098	1638	2178
	P (mm)	983	983	983
	H (mm)	1170	1170	1170
Refrigeration		Static	Static	Static
Defrosting		Off Cycle	Off Cycle	Off Cycle
Climate Class	N°	3	3	3
Environmental conditions	°C / %RH	25 / 60	25 / 60	25 / 60
Product class		H1	H1	H1
Product temperature	°C	+1 / +10	+1 / +10	+1 / +10
Temperature range	°C	NA	NA	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		R404A (3784)	R404A (3784)	R404A (3784)
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)	W / A	700 / 3,8	730 / 3,9	880 / 4,8
Electrical input (Defrosting)	W / A	380 / 1,8	400 / 1,9	490 / 2,3
Weight (net)	Kg	165	195	225

NA: Not Applicable

KELLY

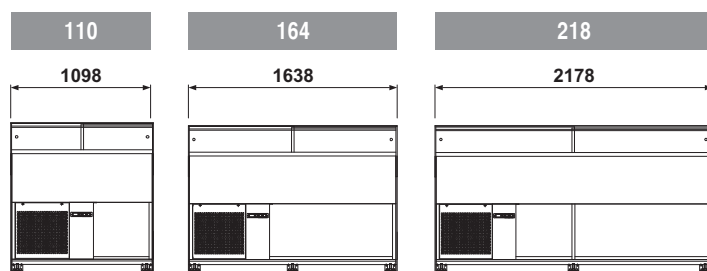
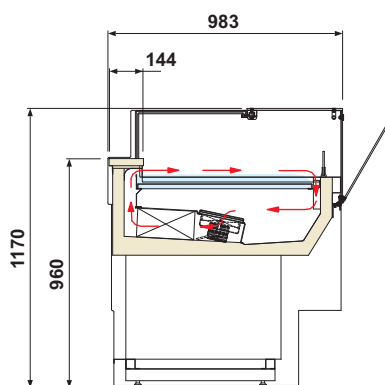
USE AND MAINTENANCE MANUAL

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## 11. TECHNICAL SPECIFICATIONS (100)

### PASTRY DISPLAY CABINETS AT VENTILATED REFRIGERATION

MODELS		
110	164	218



		110	164	218
		RV TN	RV TN	RV TN
External dimensions	L (mm)	1098	1638	2178
	P (mm)	983	983	983
	H (mm)	1170	1170	1170
Refrigeration		Ventilated	Ventilated	Ventilated
Defrosting		Off Cycle	Off Cycle	Off Cycle
Climate Class	N°	3	3	3
Environmental conditions	°C / %RH	25 / 60	25 / 60	25 / 60
Product class		H1	H1	H1
Product temperature	°C	+1 / +10	+1 / +10	+1 / +10
Temperature range	°C	NA	NA	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		R404A (3784)	R404A (3784)	R404A (3784)
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)	W / A	800 / 2,9	800 / 2,9	900 / 3,3
Electrical input (Defrosting)	W / A	350 / 1,5	400 / 1,7	430 / 1,9
Weight (net)	Kg	150	180	210

NA: Not Applicable

**KELLY**

USE AND MAINTENANCE MANUAL

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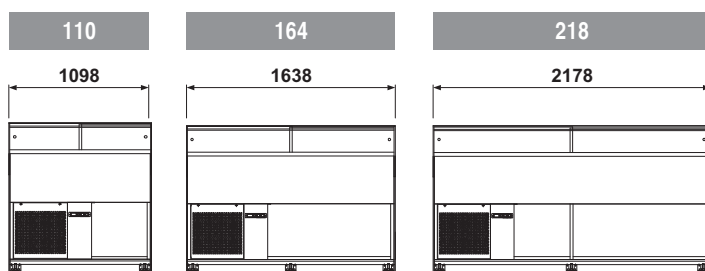
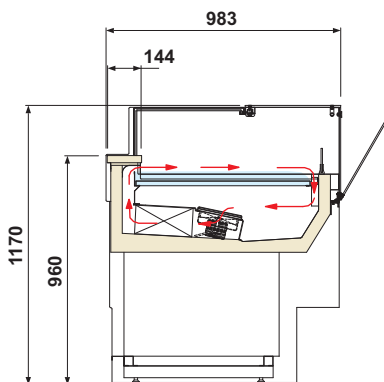
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## 11. TECHNICAL SPECIFICATIONS (100)

### PASTRY DISPLAY CABINETS AT VENTILATED REFRIGERATION

“praline”

MODELS		
110	164	218



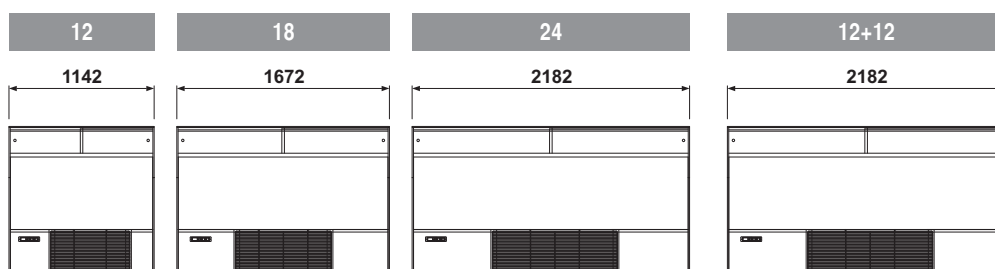
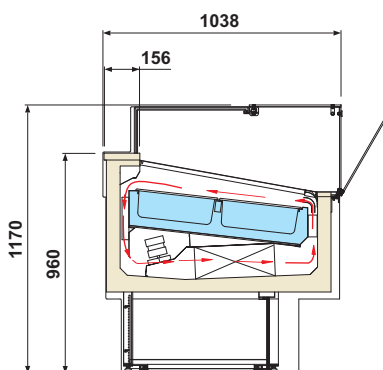
		110	164	218
		RV TN	RV TN	RV TN
External dimensions	L (mm)	1098	1638	2178
	P (mm)	983	983	983
	H (mm)	1170	1170	1170
Refrigeration		Ventilated	Ventilated	Ventilated
Defrosting		Off Cycle	Off Cycle	Off Cycle
Climate Class	N°	3	3	3
Environmental conditions	°C / %RH	25 / 60	25 / 60	25 / 60
Product class		S	S	S
Product temperature	°C	+15 / +18	+15 / +18	+15 / +18
Temperature range	°C	NA	NA	NA
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		R404A (3784)	R404A (3784)	R404A (3784)
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)	W / A	800 / 2,9	800 / 2,9	900 / 3,3
Electrical input (Defrosting)	W / A	350 / 1,5	400 / 1,7	430 / 1,9
Weight (net)	Kg	150	180	210

NA: Not Applicable

## 11. TECHNICAL SPECIFICATIONS (100)

### ICE CREAM DISPLAY CABINETS AT VENTILATED REFRIGERATION SUPERCAPRI

MODELS			
12	18	24	12+12



		12	18	24	12+12
		RV TB	RV TB	RV TB	RV TB
External dimensions	L (mm)	1142	1672	2182	2182
	P (mm)	1038	1038	1038	1038
	H (mm)	1170	1170	1170	1170
Refrigeration		Ventilated	Ventilated	Ventilated	Ventilated
Defrosting		Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle
Climate Class	N°	7	7	7	7
Environmental conditions	°C / %RH	35 / 75	35 / 75	35 / 75	35 / 75
Product class		S	S	S	S
Product temperature	°C	-16 / -14	-16 / -14	-16 / -14	-16 / -14
Temperature range	°C	-20 / +2	-20 / +2	-20 / +2	-20 / +2
Safety class (CEI EN 60335-2-89)	N° / °C (ambient)	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		R404A (3784)	R404A (3784)	R404A (3784)	R404A (3784)
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Electrical input (Standard)	W / A	1650 / 7,8	2000 / 8,9	3140 / 15	2850 / 14
Electrical input (Defrosting)	W / A	3500 / 15,6	4020 / 18	5050 / 20,5	5900 / 25
Weight (net)	Kg	235	330	437	470

NA: Not Applicable

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

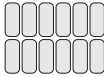
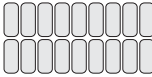
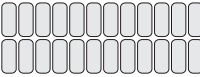
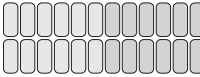







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## 11. TECHNICAL SPECIFICATIONS (100)

### ICE CREAM DISPLAY CABINETS AT VENTILATED REFRIGERATION SUPERCAPRI

MODELS			
12	18	24	12+12

#### DISPLAY CONTAINERS ARRANGEMENT

		12	18	24	12+12
lt 5 (360x165x120H)		12	18	24	12+12
lt 7 (360x165x150H)					
lt 5 (360x250x80H)					
lt 10 (360x250x120H)		8	12	16	8+8
lt 12 (360x250x150H)					

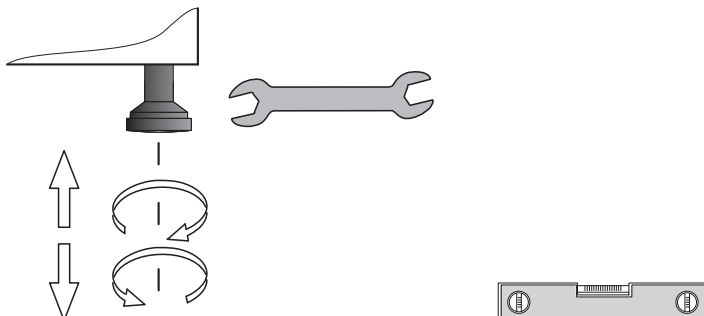
## 11.1 POSITIONING / LEVELING



### Attention

The appliance is fitted with adjustable leveling feet in height.

Level the appliance.



## 11.2 LOAD LIMITS



### Attention

It is fundamental **not to exceed** the load limits indicated in order not to alter the correct air circulation and thus prevent a high product temperature.





## 12. CONTROL PANEL



The equipment covered by this manual may be equipped with an electronic control and supervision that despite being an integral part of the 'appliance is equipped with a manual in itself to which reference is made for every detail.

## 13. CLEANING

### EXTERNAL

<b>STAINLESS STEEL</b>	Only use warm water and non-aggressive detergents and then rinse and dry using a soft cloth.
<b>ACRYLIC OR POLYCARBONATE</b>	Wash with lukewarm water, using a soft cloth or a chamois cloth. Do not use detergents, alcohol, acetone or solvents. Do not use abrasive cloths or sponges.
<b>GLASS</b>	Only use products specifically designed for cleaning glass. We do not recommend using tap water, which may leave calcium deposits on the surface of the glass.

### INTERNAL

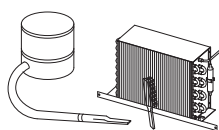


#### Attention

Do not scrape the ice from the walls with pointed tools, the surfaces will be ruined.  
Do not use high pressure appliances (e.g. steam generators).

- Remove the product contained in the cabinet and put it immediately in a relevant cold storage container in order to guarantee correct preservation.
- Turn the appliance off.
- Remove the sliding doors and internal grids. Wait for sufficient time for any ice present on the inner walls to melt completely before starting cleaning operations.
- Remove the drain cap at the bottom of the tank to allow defrosting water to flow out (if present).
- Clean the side walls and bottom of the tank using a non-aggressive detergent, warm water and a cloth or non-abrasive sponge. Do not use pointed tools. Rinse well and dry using an absorbent cloth.
- Re-mount the sliding doors and internal grids. Switch the appliance on and leave the counter to cool for at least 2 hours before re-introducing the foodstuffs.

### CONDENSING UNIT



#### Attention

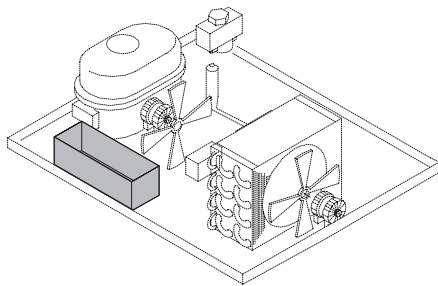


Remove the protective grilles.

Clean the condensing unit using a suction brush.  
Clean the **condenser** with a soft bristle brush; make sure you do not bend the condensing unit springs whilst cleaning it.

## 13. CLEANING

### DEFROST WATER COLLECTION TRAY



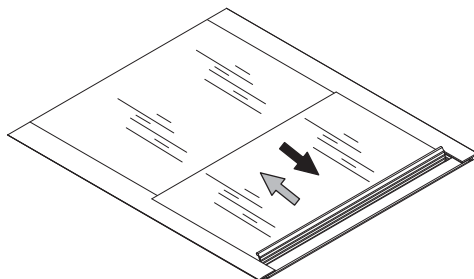
#### Attenzione



Clean based on use and as needed and in certain environmental conditions (e.g., high humidity, low environmental temperature, presence of dust, etc.) in order to avoid the incorrect and complete evaporation of the water and/or the presence of unpleasant odours.

Sanitize the tray with specific products.

### SLIDING GLASS PANEL



The sliding glass panels must be cleaned periodically using normal detergents for glass.



#### Attention

The panels are realised in toughened and heat-reflecting glass and the frame is in special material, which guaranteed excellent sliding.

Clean the frame periodically in order to maintain smooth sliding of the panels.

## 14. PROLONGED APPLIANCE SWITCH-OFF

- Remove the product contained in the cabinet and put it immediately in a relevant cold storage container in order to guarantee correct preservation.
- Open the appliance and wait for it to reach room temperature and then clean it.
- Leave the sliding glass panels open by 2-3 cm so as to guarantee circulation of the air and prevent the formation of mould and bad smells inside the appliance.
- The appliance, with or without the packaging, should be carefully stored inside warehouses or in areas away from the elements and direct sunlight, at a temperature between **0** and **+40 °C**.

**DECLARATION OF CONFORMITY**We: **ISA S.r.l.**

Via del Lavoro, 5 - 06083 - Bastia Umbra (PG)

declare under our own responsibility, that the product:

Product: **KELLY**

Serial number: .....

To which this declaration refers, is in compliance with the following:

**MACHINERY SAFETY**

General electric safety Standard EN 60335-1/Ed.2002+Modifications A11:2004,A12:2006,A2:2006 + A13:2008 A15:2011. Particular requirements for commercial refrigerating appliances EN 60335-2-89/Ed.2010. Standard for Measuring Electromagnetic Fields (EMF) of Electrical Appliances EN 62233:2008, Directive 2006/95/EC of the European Parliament and the Council of 12th December 2006 on the harmonisation of the Laws of Member States relating to electrical equipment for use within certain voltage limits EN 62471/Ed.2009 Photo-biologic safety of lamps and lamp systems

**ELECTROMAGNETIC COMPATIBILITY (EMC)**

Limits and methods of measurement of radio interference characteristics of household appliances and similar motor-operated and thermal appliances, of equipment, electrical appliances and similar equipment EN 55014-1 (valid until 2009: Ed.2000+Amendments A1:2001, A2:2002 - or: Ed.2006)

Minimum requirements for household appliances, tools and similar electrical appliances EN 55014-2 (Ed.1997+Amendment A1:2001)

Part 3: Limits – Section 2: Limits for harmonic current emissions (equipment input current=16A per phase)

EN61000-3-2 (valid until 2009:Ed.2000+Modification A2:2005-or:Ed.2006) Part 3: Limits-Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current=16A EN61000-3-3 (Ed.1995+Modifications A1:2001,A2:2005)

Part 4: Testing and measurement techniques Section 2: Electrostatic discharge immunity test EN61000-4-2 (Ed.1995) Part 4: Testing and measurement techniques Section 4: Electrical fast transient/burst immunity test EN61000-4-4 (Ed.1995)

**PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC**

As the equipment falls into a class lower than I, it is excluded from the PED's application field (art.1 par.3.6)

**FOODSTUFF COMPATIBILITY**

Regulation (CE) N.1935/2004 of the European Parliament and of the Council dated 27 October 2004 Regulation (CE) N.2023/2006 of the Council dated 22 December, Directive 2008/39/CE of the Council dated 6 March 2008 Directive 2007/19/CE of the Council dated 30 March 2007 Directive 2005/79/CE of the Council dated 18 November 2005 Directive 2004/19/CE of the Council dated 10 March 2004 Directive 2004/1/CE of the Council dated 6 January 2004 Regulation (UE) 10/2011 of the Council dated 14 January 2011

**ROHS and WEEE**

Directive 2011/95/EC of the European Parliament and of the Council of 8th June 2011  
Directive 2002/96/EC of the European Parliament and of the Council of 27th January 2003

**REACH**

Regulation (CE) n. 1907/2006 of the European parliament and council dated 18 December 2006 concerning the recording, evaluation, authorisation and restriction of the chemical substances (REACH), which establishes a European Agency regarding chemical substances, which modifies the Directive 1999/45/CE and that repeals the Regulation (CEE) n. 793/93 of the Council and the regulation (CE) n. 1488/94 of the Commission 91/155/CEE, 93/105/CE and 2000/21/CE

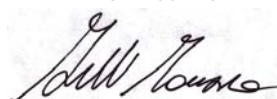
**SUBSTANCES THAT REDUCE THE OZONE LAYER**

Regulation (CE) N. 1005/2009 dated 16 September 2009 (Official Journal (OJ) of the European Union 31/10/2009 L286)  
According to the requirements set by Directives: 2006/95/EC, 2004/108/EC, 2006/42/EC, 97/23/EC

The person authorised to draw-up the Technical Folder is Mr. **Minelli Maurizio** (Technical Department Manager)  
Via del Lavoro 5 - 06083 Bastia Umbra (PG)

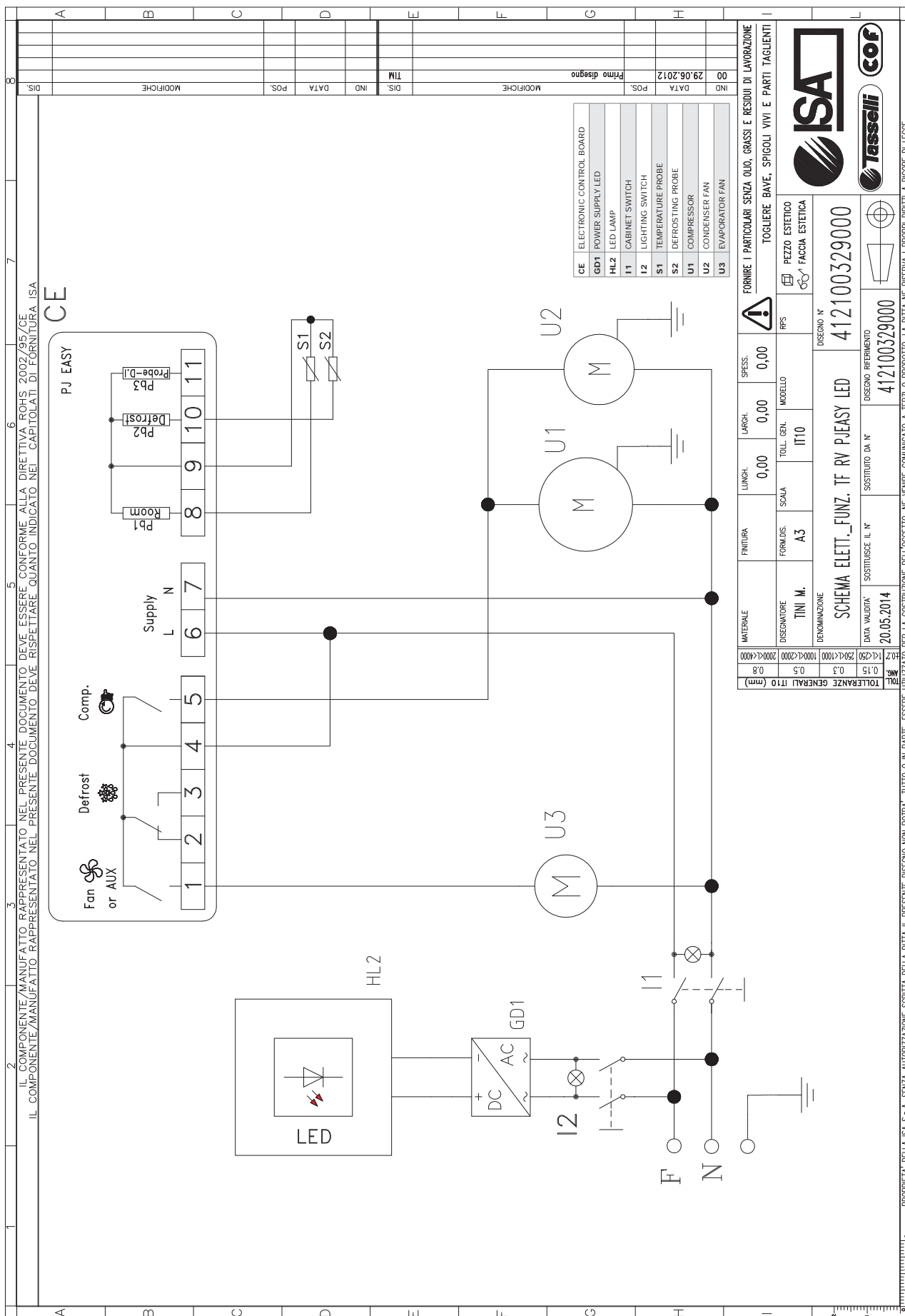
Bastia Umbra: **22 / 04 / 2014**  
(place and date of issue)

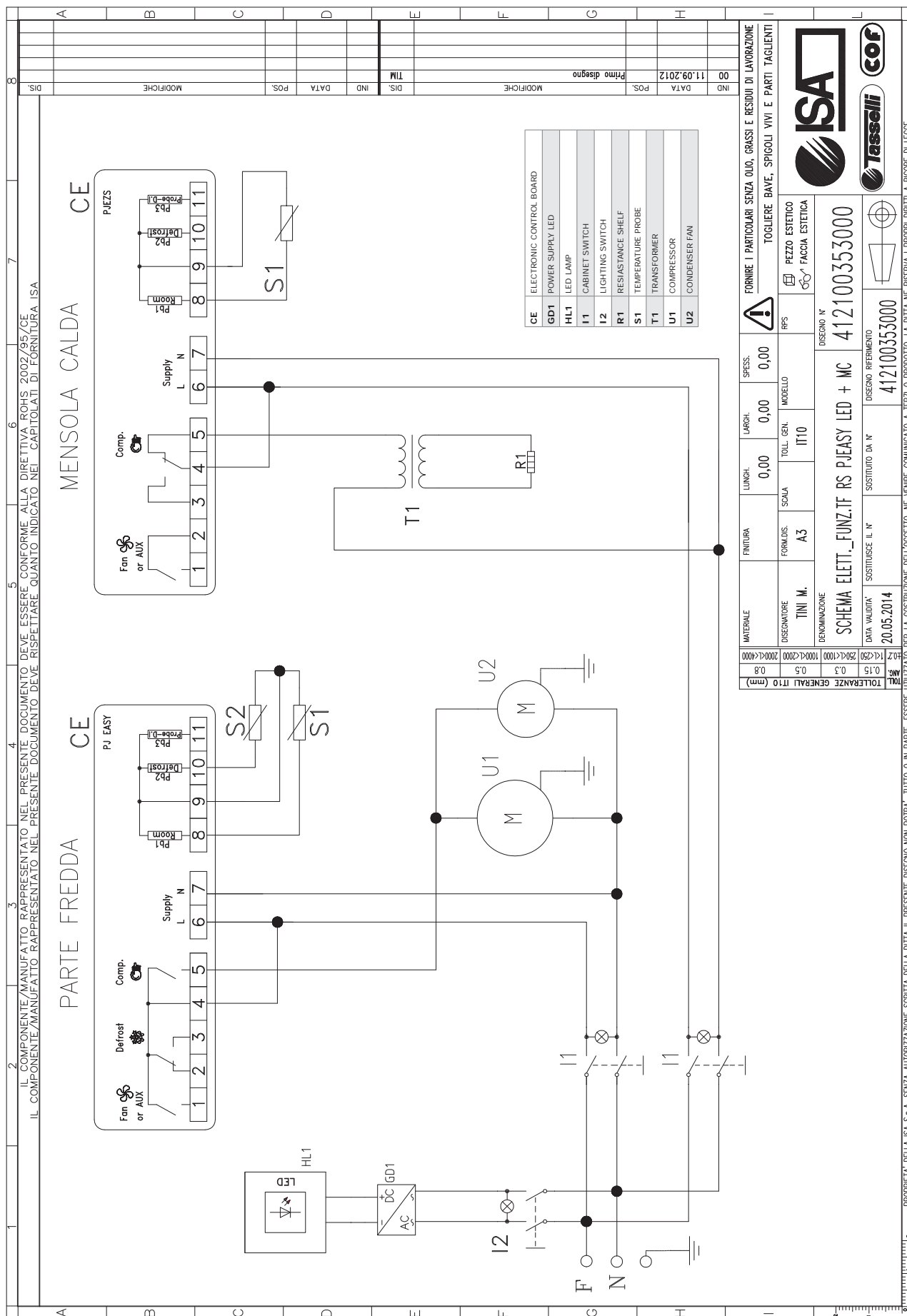
Minelli Maurizio

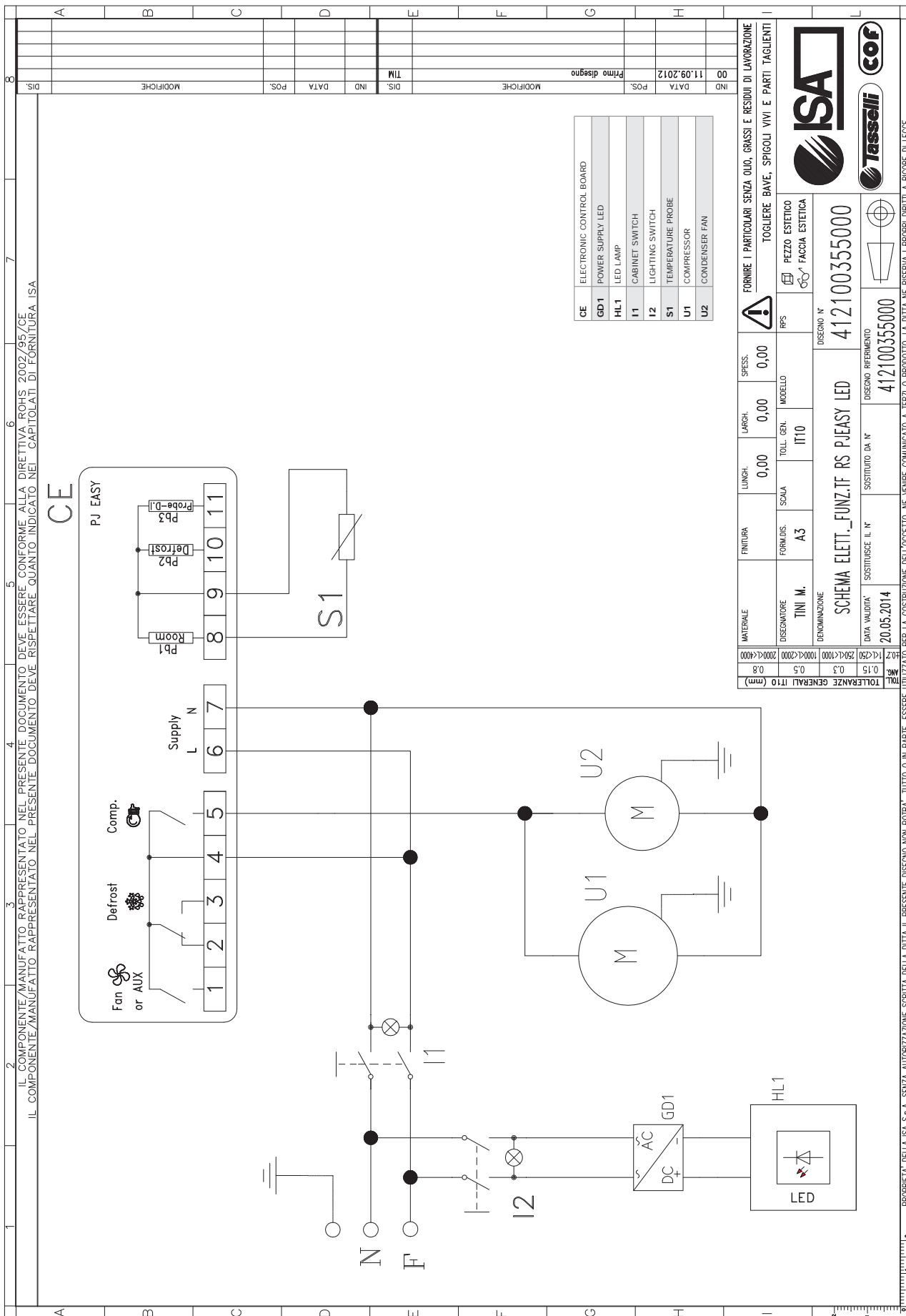
**KELLY**

USE AND MAINTENANCE MANUAL

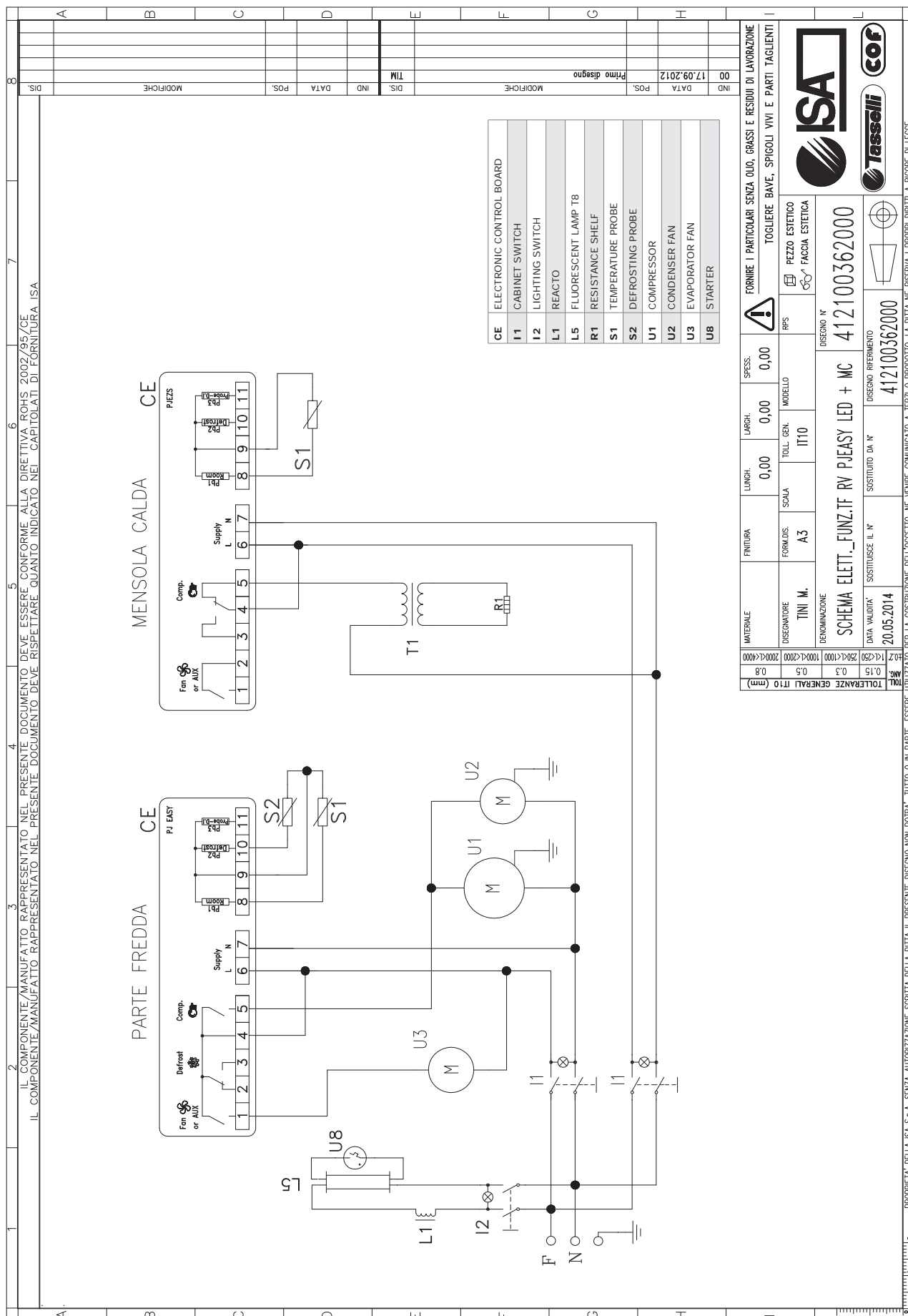
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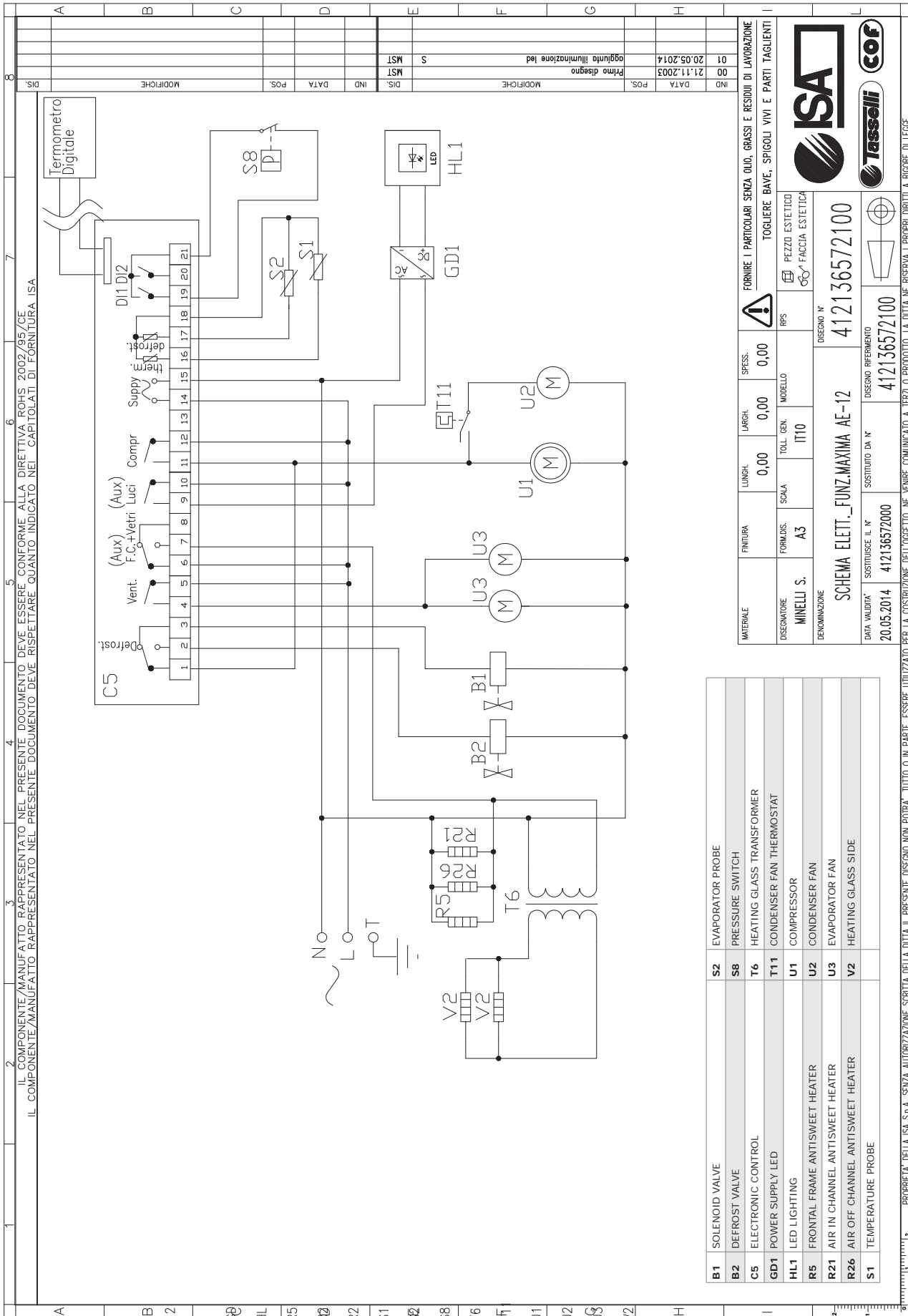








Attachment 6 - WIRING DIAGRAM - 412136572100



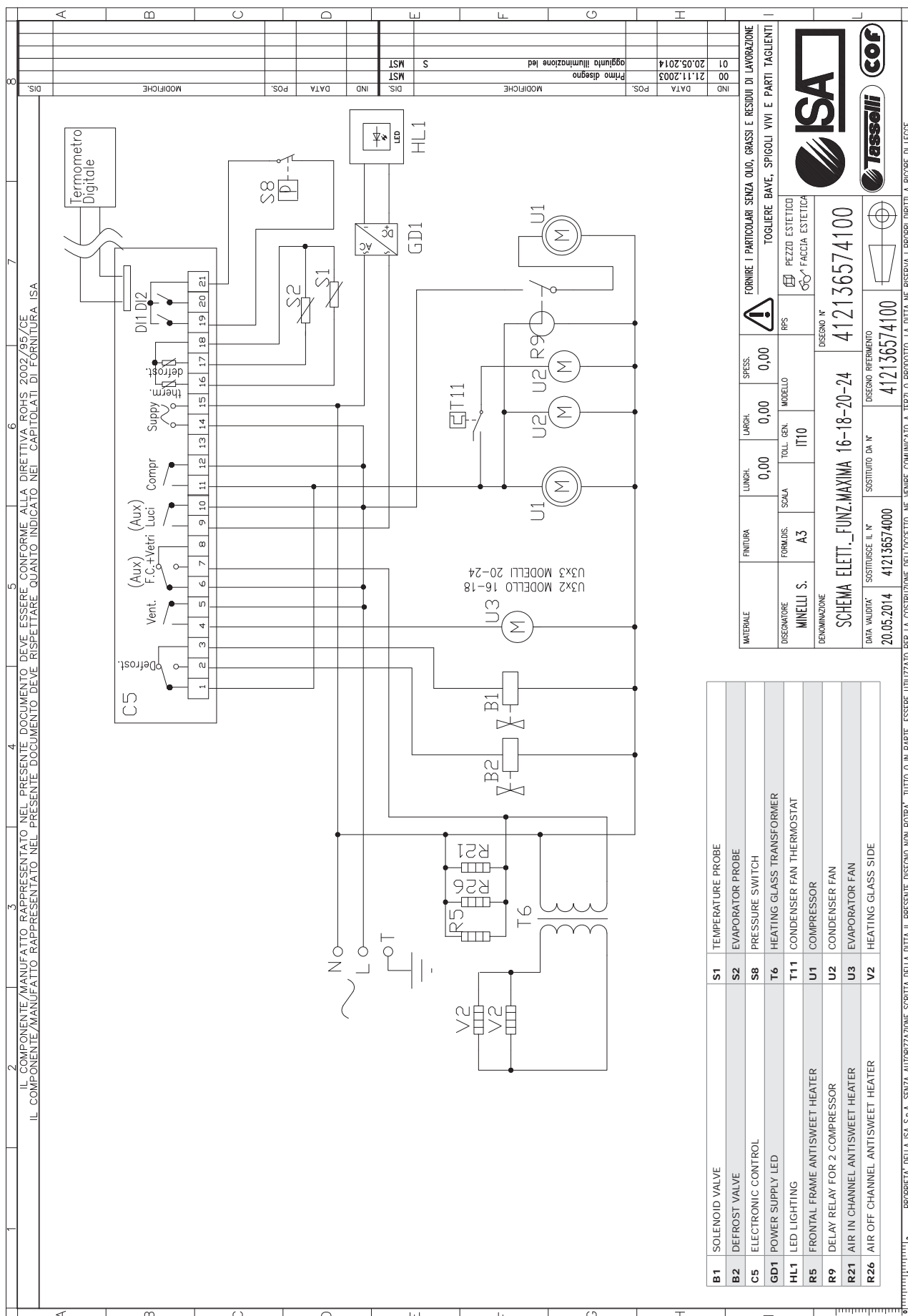
B1	SOLENOID VALVE	S2	EVAPORATOR PROBE
B2	DEFROST VALVE	S8	PRESSURE SWITCH
C5	ELECTRONIC CONTROL	T6	HEATING GLASS TRANSFORMER
GD1	POWER SUPPLY LED	T11	CONDENSER FAN THERMOSTAT
HL1	LED LIGHTING	U1	COMPRESSOR
R5	FRONTAL FRAME ANTISWEET HEATER	U2	CONDENSER FAN
R21	AIR IN CHANNEL ANTISWEET HEATER	U3	EVAPORATOR FAN
R26	AIR OFF CHANNEL ANTISWEET HEATER	V2	HEATING GLASS SIDE
S1	TEMPERATURE PROBE		

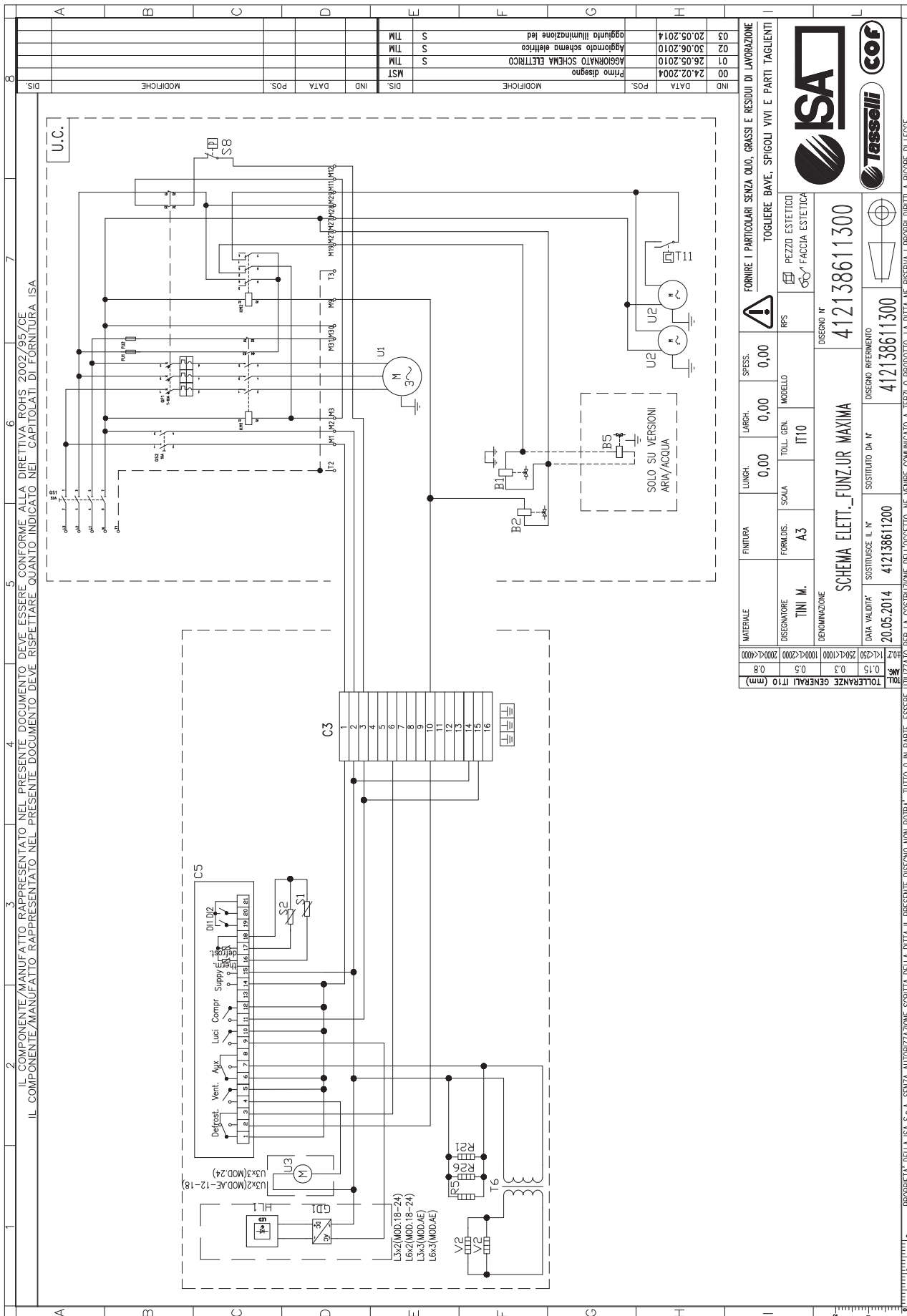
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**KELLY**

## USE AND MAINTENANCE MANUAL

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## Attachment 8 - WIRING DIAGRAM - 412138611300

<b>B1</b>	SOLENOID VALVE FLOW
<b>B2</b>	DEFROSTING VALVE
<b>B5</b>	WATER VALVE
<b>C5</b>	ELECTRONIC CONTROL UNIT
<b>GD1</b>	POWER SUPPLY LED
<b>HL1</b>	LED LIGHTING
<b>R5</b>	FRONTAL FRAME ANTISWEET HEATER
<b>R21</b>	AIR IN CHANNEL ANTISWEET HEATER
<b>R26</b>	AIR OFF CHANNEL ANTISWEET HEATER
<b>S1</b>	TEMPERATURE PROBE
<b>S2</b>	EVAPORATOR PROBE
<b>S8</b>	PRESSURE SWITCH
<b>T6</b>	HEATING GLASS TRANSFORMER
<b>T11</b>	CONDENSER FAN THERMOSTAT
<b>U1</b>	COMPRESSOR
<b>U2</b>	CONDENSER FAN
<b>U3</b>	EVAPORATOR FAN
<b>V2</b>	EVAPORATOR FAN
<b>1</b>	INPUT STAGE POWER ELECTRONIC CONTROL UNIT
<b>2</b>	INPUT NEUTRAL POWER ELECTRONIC CONTROL UNIT
<b>3</b>	OUTPUT STAGE COMPRESSOR CONTROL
<b>6</b>	OUTPUT PHASE CONTROL SOLENOID VALVE
<b>10</b>	OUTPUT STAGE SUPPLY VALVE 4 WAY
<b>14</b>	OUTPUT NEUTRAL FAN CONDENSING
<b>15</b>	OUTPUT PHASE CONTROL FAN CONDENSING
<b>FU1</b>	FUSIBLE 2A
<b>FU2</b>	FUSIBLE 1A
<b>KM1</b>	ADDITIONAL CONTACT CONTACTOR
<b>KM2</b>	RELAY
<b>M1</b>	LINE COUNTER
<b>M2</b>	NEUTRAL COUNTER
<b>M3</b>	COMPRESSOR CONTROL
<b>M9</b>	DEFROSTING CONTROL
<b>M11</b>	PRESSURE SWITCH DIGITAL INPUT ALARM
<b>M12</b>	PRESSURE SWITCH DIGITAL INPUT ALARM
<b>M19</b>	FLOW CONTROL VALVE
<b>M27</b>	COMMON NEUTRAL
<b>M28</b>	FAN CONTROL DEFROST
<b>M29</b>	FAN CONTROL SPEED ADJUSTMENT
<b>M30</b>	NEUTRAL RESISTANCE CARTER COMPRESSOR
<b>M31</b>	CARTER COMPRESSOR LINE RESISTANCE
<b>QF1</b>	MOTOR PROTECTION + ADDITIONAL CONTACT
<b>QS1</b>	CIRCUIT BREAKER 32A 440V
<b>QS2</b>	CIRCUIT BREAKER COUNTER 10A



*Idee che lavorano con te*

**ISA S.r.l.**

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