

SLIM GD



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SLIM GD

USE AND MAINTENANCE MANUAL

428000454037

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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 check
	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.

The following are not covered by warranty:

- all flaws due to an improper use of the equipment
- all flaws due to an improper connection to the power grid
- all flaws due to standard component wear (as for instance: breakage of compressors and neon lamps, if not due to manufacturing flaws)
- calls to request installation, technical instructions, adjustments, cleaning of 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.

The diagram shows a technical label with the following fields and symbols:

- 1**: Four circles representing symbols of compliance.
- 2**: Manufacturer's address.
- 3**: Ord. Prod. / Prod. Ord.
- 4**: Tipologia / Type
- 5**: Modello / Model
- 6**: Articolo / Article
- 7**: Matricola Nr. / Serial Number
- 8**: Data Prod. / Prod. Date
- 9**: Power supply voltage symbol (V) and tilde (~).
- 10**: Frequency symbol (Hz).
- 11**: Capacità lorda / Gross volume symbol.
- 12**: Absorption at Rated Capacity symbol (W).
- 13**: Absorption during Defrosting symbol (W).
- 14**: Absorption of Heating Elements symbol (W).
- 15**: Lamp Power symbol (W).
- 16**: Fuse Value symbol (A).
- 17**: Climate Class symbol (Classe Class).
- 18**: Number of Motors symbol (Nr).
- 19**: Type of Coolant symbol.
- 20**: Amount of Coolant symbol (Kg).
- 21**: Safety Class symbol (Classe Class).
- 22 - 23**: Ordine Cliente / Customer order.
- 24**: WEEE Mark symbol (Foaming gas: CO₂).

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 **display and sell cheeses, dairy products and fresh pre-packed products**.

The manufacturer is not liable for harm or damage caused to persons, property or to the appliance itself that are due to the user displaying other products than those specified 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

Improper use (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:

- Cooling system
- Condensing unit (on-board or remote)
- Electrical system
- Electronic control board
- Monolithic structure insulated in ecological polyurethane
- Supports (adjustable height)
- Lighting system
- Glass chamber doors with automatic closure



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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. Regarding this, the manual has the purpose of illustrating use and maintenance of the appliance and the operator has the responsibility and the duty to respect it scrupulously.

Failure to abide by the safety guidelines may cause injury to staff and damage the components and control unit of the appliance. 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
- De-commissioning
- 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 INSTALLED

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 GUARDS

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 ELECTRICAL POWER DISCONNECTION

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 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.

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

6.5 RISKS DUE TO CONTACT WITH PARTS UNDER STRESS

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.

You should 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 LABELS (where applicable)

The appliance is fitted with danger, warning and instruction labels, in accordance with the standards that apply to graphic symbols used on systems and 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 FALL OF OBJECTS

Positioning of the cabinet display parts (i.e. counters, rods and hooks), as also product arrangement inside the cabinet can be the source of potential hazards if not properly performed.

Follow the positioning instructions described in this Manual before you place products inside the cabinet, check that the counters are properly fastened, as also the hooks, etc. Do not exceed the maximum load limit. Do not position tilted product on the counters if they are not held in place by their stoppers.

6.13 FOODSTUFFS SAFETY

The refrigerator cabinet described herein is meant to be used to display packaged products. As such, it is not designed for direct contact between the foodstuffs and display surfaces. If the foodstuffs do accidentally make contact with the surfaces and for a rather long time, the product may be contaminated.

Follow the guidelines on how to use the cabinet. If a product package breaks, remove it from the cabinet and clean, if necessary.

6.14 COLD











Several tasks that need to be performed on the cabinet, like cleaning or product loading, require the handling of products and/or cabinet components at a low temperature, with the risk of cold-induced malaise for operators and/or accidental slipping.

Follow the safety regulations in the place where the cabinet is installed; more specifically, be sure to always use the right PPE (especially gloves).

6.15 RISK OF EXPLOSION

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

6.16 COOLANTS (where applicable)

COOLANT	DESCRIPTION
	<div data-bbox="308 315 395 409">  <p>R290</p> </div> <p>Coolant R290 is a gas compatible with the environment, but extremely flammable. Pay close attention during transport, installation and that the destruction not to damage the refrigerant pipelines.</p> <p>IN THE EVENT OF DAMAGE: Keep flames or sources of ignition away from the appliance. Properly ventilate the premises for a few minutes. Switch the appliance off and pull out the power plug. Inform customer support service. The more coolant contained in an appliance, the larger the premises in which the appliance is installed must be. In premises that are too small, a flammable mixture of air and gas may form if there is a gas leak. The volume of the room where the appliance is installed must be at least 19 m³ for each cooling system present in the room.</p> <p>WARNING Maintenance must be performed by qualified personnel that has been to work with flammable refrigerants.</p> <div data-bbox="320 689 379 745">  </div>
	<div data-bbox="308 804 395 898">  <p>R600a</p> </div> <p>Coolant R600a is a gas compatible with the environment, but extremely flammable. Pay close attention during transport, installation and that the destruction not to damage the refrigerant pipelines.</p> <p>IN THE EVENT OF DAMAGE: Keep flames or sources of ignition away from the appliance. Properly ventilate the premises for a few minutes. Switch the appliance off and pull out the power plug. Inform customer support service. The more coolant contained in an appliance, the larger the premises in which the appliance is installed must be. In premises that are too small, a flammable mixture of air and gas may form if there is a gas leak. The volume of the room where the appliance is installed must be at least 17 m³ for each cooling system present in the room.</p> <p>WARNING Maintenance must be performed by qualified personnel that has been to work with flammable refrigerants.</p> <div data-bbox="320 1189 379 1245">  </div>
	<p>Coolant R744 is a gas compatible with the environment. Pay close attention during transport, installation and that the destruction not to damage the refrigerant pipelines.</p> <p>IN THE EVENT OF DAMAGE: Keep away from the flame or ignition sources. Properly ventilate the premises for a few minutes. Switch the appliance off and pull out the power plug. Inform customer support service.</p> <div data-bbox="316 1554 384 1615">  </div> <div data-bbox="320 1666 379 1722">  </div> <div data-bbox="437 1554 1331 1722" style="border: 1px solid black; padding: 5px;"> <p>WARNING The cooling system is a High Pressure system. Do not tamper with the system; always contact a specialised and qualified technician before disassembling the system. Maintenance must only be performed by qualified staff.</p> <div data-bbox="1086 1599 1299 1688" style="text-align: center;">  <p>HIGH PRESSURE</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 coolant on the plate fitted inside the cabinet; empty out the coolant and dispose of it through authorised waste centres
- Disconnect the evaporator, condenser, compressor, pipes and fans. These are made of copper, aluminum, steel and plastic and should therefore be disposed of separately.
- 8. 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 wheellie 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 **00** 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: when performing this task, 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

Suitable for installation in a dry, well ventilated room. There should be a good air flow around the compressor and 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 ELECTRICAL CONNECTION



Attention

Check that the network voltage matches the one displayed on the identification plate of the appliance, and that the required 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. ROUTINE

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	MAINTENANCE		AUTHORIZED PERSONNEL
			EXTRAORDINARY	
Cleaning the external surfaces	Depending upon Use and Necessity	X		User
Cleaning the accessible internal parts (without the use of tools)	Depending upon Use and Necessity	X		User
Control power supply cable, plugs and/or electric sockets	Monthly Every 6 months	X		User
Check integrity of sealing gaskets	Monthly	X		User
Cleaning of defrost water collection tray	Every 6 months Depending upon use and necessity	X		Technical Assistance
Condenser cleaning	Monthly Every 6 months	X		Technical Assistance
Check the compressor oil level (whenever present)	Every 6 months	X		Technical Assistance
Air tank draining (whenever present)	Every 6 months	X		Technical Assistance
Check pneumatic connections (whenever present)	Every 6 months	X		Technical Assistance
Check the integrity of chiller system piping	Every 6 months	X		Technical Assistance
Inspect cables and internal power connections	Every 6 months	X		Technical Assistance
Cleaning condensate drying sponges (whenever present)	Every 6 months	X		Technical Assistance
Lamp / LED replacement (if present)			X	Technical Assistance
Control panel replacement (ECU - thermal switch - etc.)			X	Technical Assistance
Power cable, plug and/or socket replacement			X	Technical Assistance



Attention

After any maintenance task, you **MUST** perform the electrical safety tests, as required by standard CEI EN 50106.

10. FAILURE - TECHNICAL SUPPORT

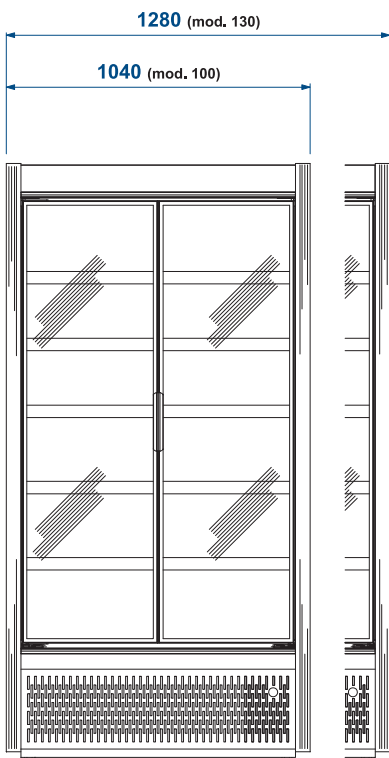
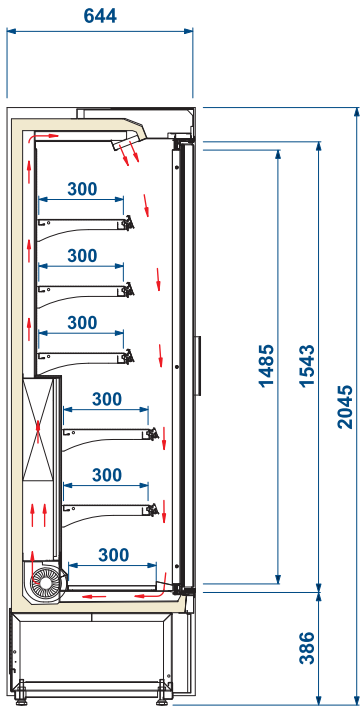
If the appliance is not working properly or stops working, **before contacting** the **Customer support centre**, check the following:

FAULT	CAUSE	SOLUTION	AUTHORIZED PERSONNEL
The appliance is not working	Blown protective fuse	Previously find the cause of the intervention of the switch, and then re-introduce the new fuse.	User
	The master switch is open	Close the master switch.	User
	The plug is not inserted	Insert the plug.	User
	Electric black-out	If the black-out should be prolonged, transfer the product into an appropriate cold storage container.	User
The internal temperature is not low enough	Evaporator/s obstructed completely by ice	Carry out an additional defrosting cycle.	User
	The wrong temperature has been set on the electronic control board	Set the appropriate temperature.	User
	The appliance is affected by draughts or is exposed to direct or reflected sunlight	Remove any excessive draughts and prevent any direct or reflected sunlight.	User
	Insufficient cooling air flow from air condenser	Remove anything that may affect air flow inside the condensing unit (paper sheets, cardboard, grids with an insufficient number of holes, etc.).	User
	Internal fans at standstill or with fans damage	Contact the Technical Assistance service	Technical Assistance
	Internal ventilation is too high	Contact the Technical Assistance service	Technical Assistance
	Low electronic control board efficiency	Contact the Technical Assistance service Replace the electronic control board. The control unit must only be replaced with an original replacement from ISA, if specifically made for R290 refrigerant. Replace the temperature probes only after checking which of the two is not operating efficiently.	Technical Assistance
	air condenser clogged with dust or dirt	Contact the Technical Assistance service . Clean the condensing unit thoroughly.	Technical Assistance
	Insufficient refrigerant load in the cooling system	Contact the Technical Assistance service Find the cause behind the lower amounts of coolant and eliminate it. Top up the coolant. If necessary, empty the system before topping up.	Technical Assistance
The compressor does not start-up or operates for a few moments	Electrical power shortage to appliance	Check if there is a power cut. Close the various switches on the power supply line.	User
	The power supply voltage is too low	Check that the network voltage of the power supply cable is 220V +/- 10%.	User
	Set temperature 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	User
	The pressure switch (if any) was activated at maximum pressure	Contact the Technical Assistance service . 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.	Technical Assistance

10.1 ALARMS LOG (where applicable)

ALARM	DESCRIPTION	OUTPUTS	AUTHORIZED PERSONNEL
P1 EO	Broken thermal switch probe. Compressor output as per "CON" and "COFF" parameters	The alarm starts a few seconds after the probe breaks down; it stops a few seconds after the probe starts working again properly. We recommend checking the probe connections before replacing it. Contact the Technical Assistance service .	Technical Assistance
P2 E1	Broken evaporator probe. Set time for defrosting	The alarm starts a few seconds after the probe breaks down; it stops a few seconds after the probe starts working again properly. We recommend checking the probe connections before replacing it. Contact the Technical Assistance service .	Technical Assistance
HA HI	High temperature alarm	The alarm stops automatically on reaching the temperature set. Check programming. Contact the Technical Assistance service .	Technical Assistance
LA LO	Low temperature alarm	The alarm stops automatically on reaching the temperature set. Check programming. Contact the Technical Assistance service .	Technical Assistance
EA IA CB	External alarm	The external alarm stops after the digital infeed is deactivated. It should be restarted automatically. The alarm is linked to the intervention of the pressure switch and/or the compressor circuit breaker, when present. Contact the Technical Assistance service .	Technical Assistance
ETc RTF	Real time clock is broken	Reset the clock. If the alarm does not stop, replace the clock. Contact the Technical Assistance service .	Technical Assistance
EE	Machine parameter error	The instrument is damaged. It should be replaced Contact the Technical Assistance service .	Technical Assistance
EF	Operating parameters error	The instrument is damaged. It should be replaced Contact the Technical Assistance service .	Technical Assistance

11. TECHNICAL SPECIFICATIONS



MODELS	
100	RV TN
130	RV TN

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UCB

TECHNICAL FEATURES		Models			
		100		130	
		RV TN		RV TN	
External dimensions (lxd)	mm	1040 x 644	1040 x 644	1280 x 644	1280 x 644
External dimensions (h)	mm	2045	2045	2045	2045
Refrigeration		Ventilated	Ventilated	Ventilated	Ventilated
Defrosting		Stopped Compressor	Stopped Compressor	Stopped Compressor	Stopped Compressor
Climate class	N°	3	3	3	3
Environmental conditions	°C / % RH	25 / 60	25 / 60	25 / 60	25 / 60
Product class		M1 (-1 / +4)	M1 (-1 / +4)	M1 (-1 / +4)	M1 (-1 / +4)
Safety Class (CEI EN 60335-2-89)	N° / °C (environment)	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		R404A (3784)	R744	R404A (3784)	R744
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Power absorption (at full speed)	W / A	930 / 4.5	810 / 3.7	1180 / 5.7	1200 / 5.5
Power absorption (in defrost mode)	W / A	140 / 1	140 / 1	140 / 1	140 / 1
Weight (net)	Kg	240	238	280	278

UCR

TECHNICAL FEATURES		Models	
		100	130
		RV TN	RV TN
External dimensions (lxd)	mm	1040 x 644	1280 x 644
External dimensions (h)	mm	2045	2045
Refrigeration		Ventilated	Ventilated
Defrosting		Stopped Compressor	Stopped Compressor
Climate class	N°	3	3
Environmental conditions	°C / % RH	25 / 60	25 / 60
Product class		M1 (-1 / +4)	M1 (-1 / +4)
Safety Class (CEI EN 60335-2-89)	N° / °C (environment)	5 / 43 ± 2°C	5 / 43 ± 2°C
Refrigerant (GWP)		R404A (3784)	R404A (3784)
Power supply	V / ph / Hz	230 / 1 / 50	230 / 1 / 50
Power absorption (at full speed)	W / A	-	-
Power absorption (in defrost mode)	W / A	140 / 1	140 / 1
Weight (net)	Kg	195	228

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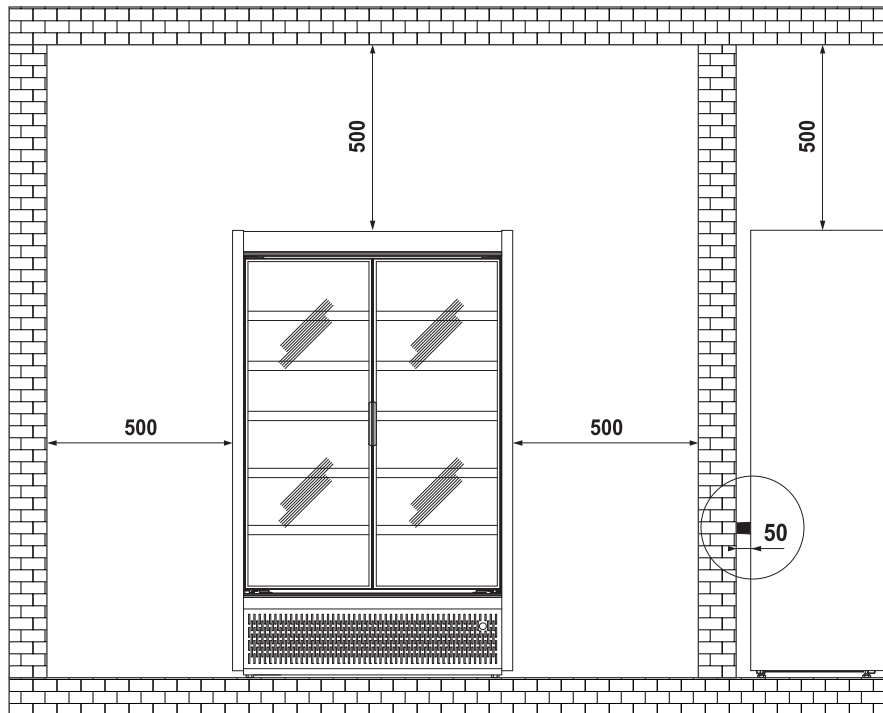
EN

11.1 INSTALLATION



Attention

It is fundamental to respect the distances indicated (mm) for correct installation of the appliance.

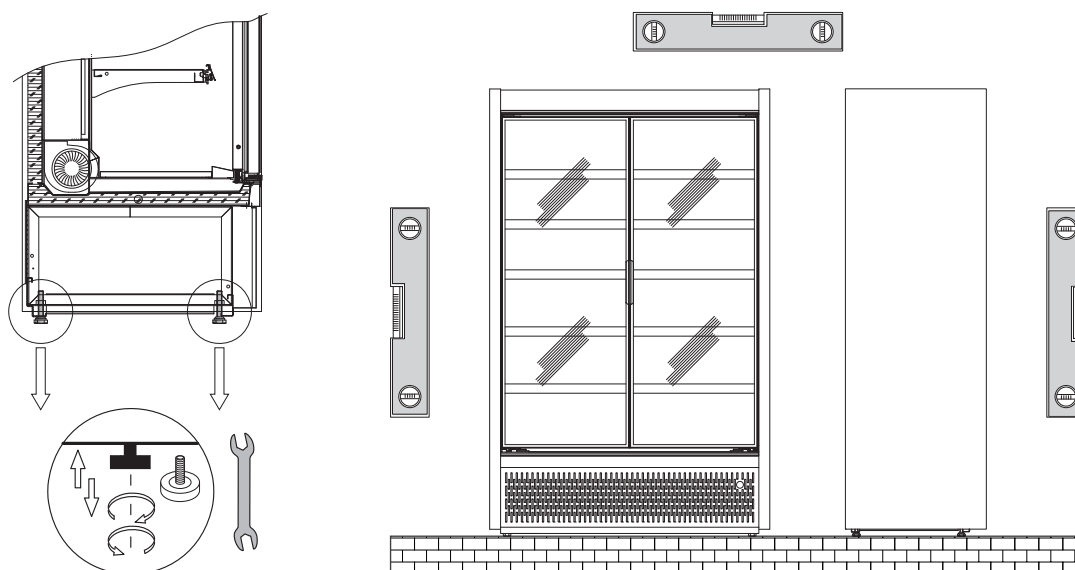


11.2 LEVELING / POSITIONING



Attention

The appliance is set-up with height-adjustable feet for stabilisation of the floor. After positioning it is necessary to level the appliance to the ground. After positioning it is necessary to stabilise the appliance to the ground. (all supports must touch ground).



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11.3 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.

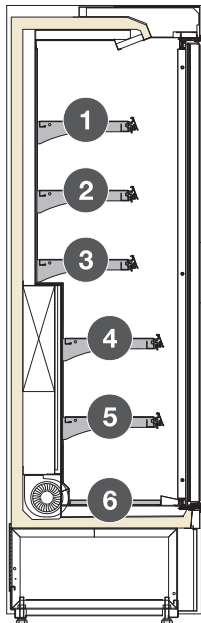


11.4 LOAD LIMITS ON COUNTERS (Kg)



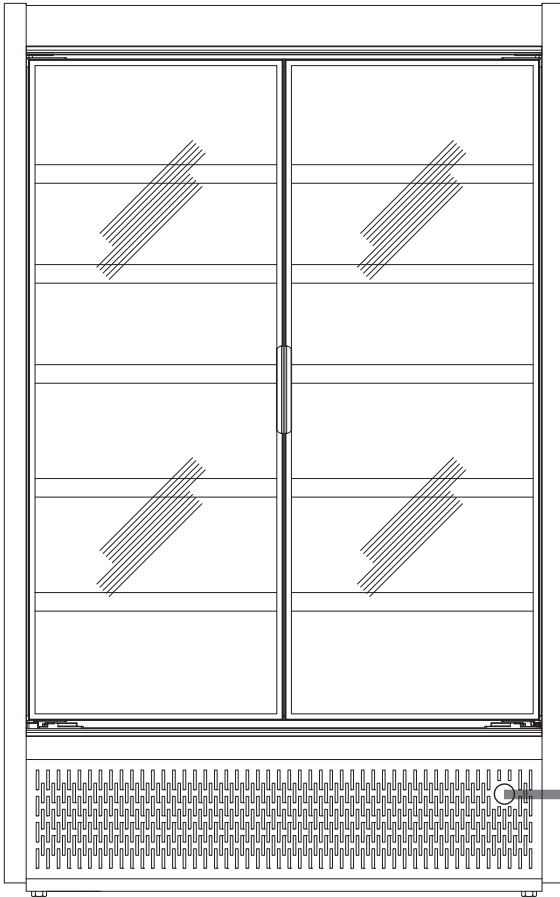
Attention

It is absolutely necessary to respect the (max) weight limits indicated for each shelf in order to prevent the deformation or breakage of the shelves themselves.

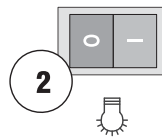


SHELF N°		100	130
1	Kg	36	45
2	Kg	36	45
3	Kg	36	45
4	Kg	36	45
5	Kg	36	45
6	Kg	36	45

12. CONTROL PANEL

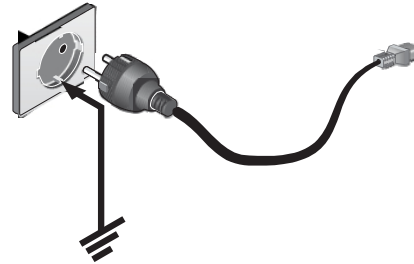


1	Electronic control unit
2	Light Switch



START-UP

Activate the mains system master switch.
 Plug the power cable into the socket supplied by the customer, ensuring that the plug is fitted with an earth contact and that there are no multiple sockets connected to it.
 The appliance automatically starts working.



12.1 USER INTERFACE



Attention

The electronic control board is installed already programmed. Any changes to the control board settings can be carried out exclusively by qualified technical personnel.

At switch-on, the instrument performs a **LAMP TEST** for a few seconds. The display and the LEDs flash to check the integrity and good operation of the same.

KEYS	
	UP Scrolls menu options Increases the values Activates manual defrosting
	DOWN Scrolls menu options Decreases the values
	STAND-BY (ESC) Goes back up one level with respect to current menu Confirms parameter value Activates the Stand-by function
	SET (ENTER) Accesses the Setpoint Accesses the programming menu Confirms the controls Displays any alarms (if active)

LED	
	COMPRESSOR or RELAY 1 ON for compressor on Flashing for delay, protection or blocked activation.
	ADDITIONAL ON for defrosting in progress Flashing for manual activation
	ALARM ON for active alarm Flashing for silenced alarm
	FANS ON for operating fans



SET BUTTON	
	Press the SET (ENTER) button and release immediately. The "Set" label will appear. To view the Set point value, press the SET (ENTER) button again. The Setpoint value will appear on the display.
	To change the Set point value, press the UP and DOWN buttons within 15 seconds. To confirm the new Set point value, press the SET (ENTER) button again.
	No operation on the keyboard for more than 15 seconds (time-out) or pressing the STAND-BY (ESC) key once, the last value shown on the display is confirmed and it goes back to the previous display.

CHECK UP	
	The alarm condition is always signalled via the buzzer (if present) and by the LED next to the alarm icon. Any alarms deriving from broken evaporator probes (probe 1) appear directly on the instrument display and are indicated by E1 Any alarms deriving from broken evaporator probes (probe 2) appear directly on the display and are indicated by E2 .

MANUAL ACTIVATION OF THE DEFROSTING CYCLE	
	The defrosting cycle is activated manually by holding down the UP key for 5 seconds. If the conditions for defrosting are not present (e.g. the temperature of the evaporator probe is higher than the defrosting end temperature), the display will flash three (3) times to indicate that the operation will not be carried out.

13. CLEANING

The materials listed below must be cleaned as follows:

STAINLESS STEEL

Only use warm water and non-aggressive detergents and then rinse and dry using a soft cloth.

ACRYLIC OR POLYCARBONATE

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.

GLASS

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.

13.1 INTERNAL

a) Remove the product contained in the cabinet and put it immediately in a relevant cold storage container in order to guarantee correct preservation..

b) Switch the appliance off.

Wait at least 4 to 6 hours, until the ice on the evaporator has melted completely, before proceeding with cleaning operations.

We recommend waiting until the following day to make sure the product has been completely defrosted.

c) Wash the bottom of the tank and the sides with a mild detergent, warm water and a cloth or a non-abrasive sponge.

Rinse well and dry using a cloth.

d) If the cabinet is connected with a ground discharge, pour some warm water with a sanitising solution suited for the intended use.

In terms of quantity, the amount of solution used should be enough to remove any product residues and disinfect the whole drainage channel.

If the appliance is not connected to a drain channelled into the ground, follow the procedure described in the previous paragraph. The water used to rinse the solution should be collected in the tray located inside the base of the cabinet. Clean and disinfect the tray.

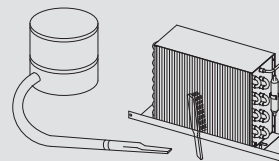
13.2 CONDENSING UNIT

Remove the front and rear grille using a screwdriver to screw off the fixing screws.



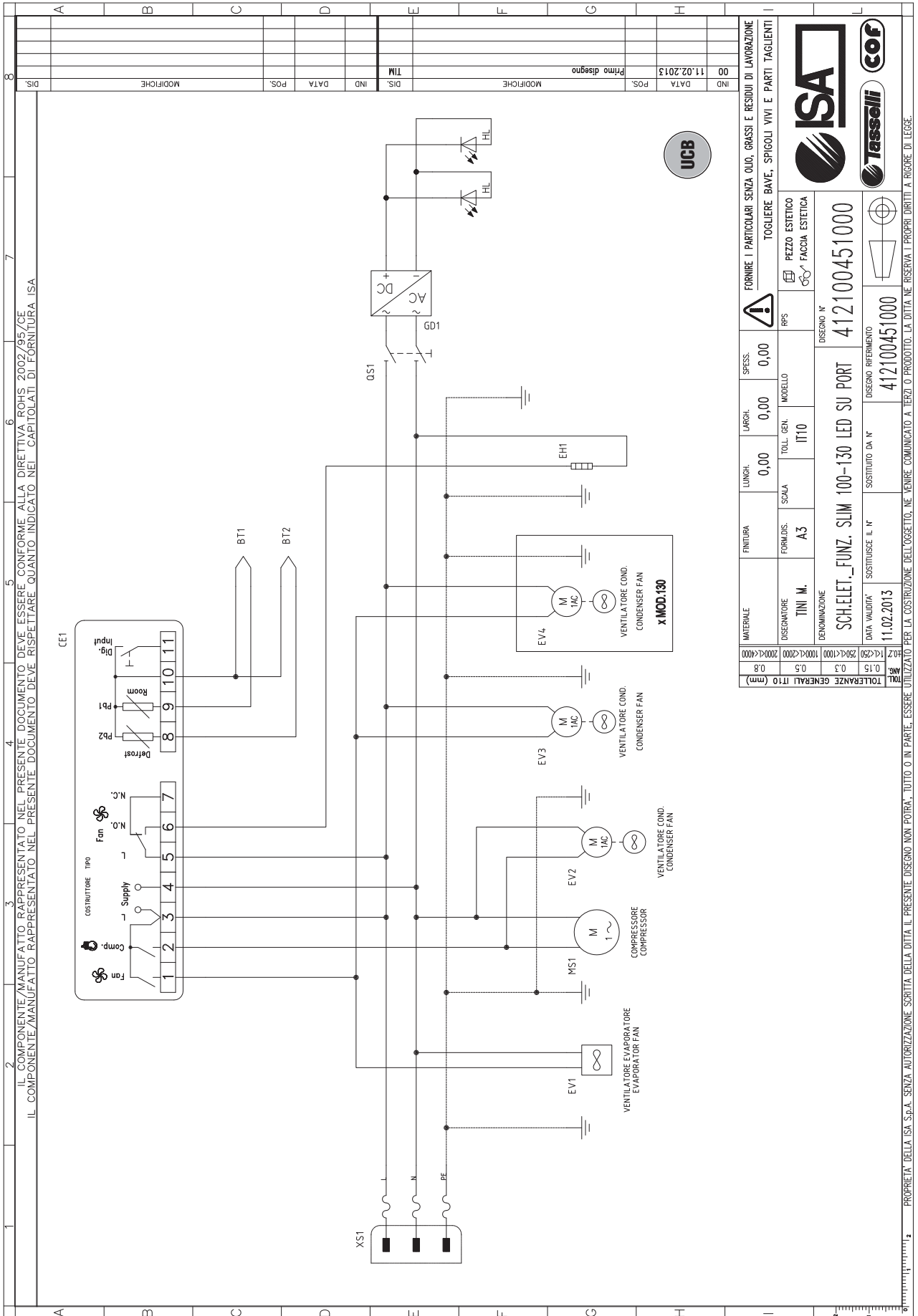
Attention

Clean the **CONDENSER** with the aid of soft-thistle brush;
Make sure you do not bend the condensing unit springs when cleaning it.

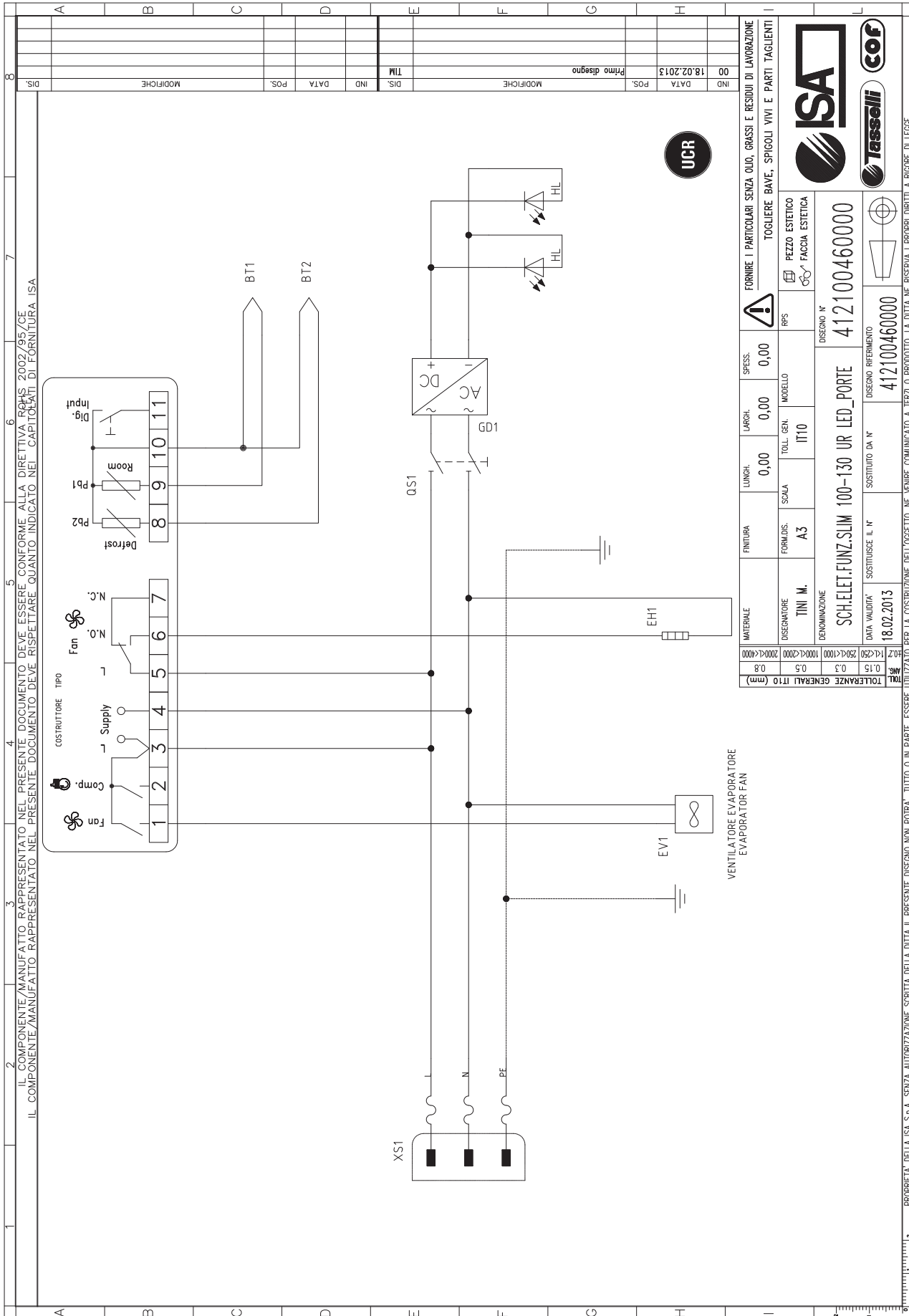


14. ATTACHMENTS

N°		Alarm	Page
1	Wiring diagram	412100451000	27
2	Wiring diagram	412100460000	28
3	Declaration of conformity		30



IND	DATA	POS.	MODIFICHE	DIS.	IND	DATA	POS.	MODIFICHE	DIS.
00	11.02.2013			Primo disegno					
<p>INDICAZIONE: FORNIRE I PARTICOLARI SENZA OLIO, GRASSI E RESIDUI DI LAVORAZIONE TOGLIERE BAVE, SPIGOLI VIVI E PARTI TAGLIANTI</p>									
MATERIALE		FINITURA	LUNGH.	LARGH.	SPESS.	<p>! FORNIRE I PARTICOLARI SENZA OLIO, GRASSI E RESIDUI DI LAVORAZIONE TOGLIERE BAVE, SPIGOLI VIVI E PARTI TAGLIANTI</p>			
DESEGNATORE		FORMULA	SCALA	TOLL. GEN.	MODELLO	<p>RFS PEZZO ESTETICO FACCIA ESTETICA</p>			
TINI M.		A3		IT10		<p>DISEGNO N° 412100451000</p>			
DENOMINAZIONE		<p>SCHIELET. FUNZ. SLIM 100-130 LED SU PORT</p>							
DATA VALIDITA'		SOSTITUISCE IL N°	DISEGNO RIFERIMENTO			<p>412100451000</p>			
11.02.2013									
TOLLERANZE GENERALI IT10 (mm)		<p>PROPRIETA' DELLA ISA S.p.A. SENZA AUTORIZZAZIONE SCRITTA DELLA DITTA IL PRESENTE DISEGNO NON POTRA' TUTTO O IN PARTE, ESSERE UTILIZZATO PER LA COSTRUZIONE DELL'OGGETTO, NE VENIRE COMUNICATO A TERZI O PRODOTTO. LA DITTA NE RISERVA I PROPRI DIRITTI A RIGORE DI LEGGE.</p>							



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Alarm	412100451000
Models	100
	130
BT1	Temperature probe
BT2	Defrost probe
CE1	Electronic control unit
EH1	Condensate dry heater
EV1	Evaporator fan
EV2	Condenser fan
EV3	Condenser fan
EV4	Condenser fan
HL	LED bulb
GD1	LED power supplier
MS1	Compressor
QS1	Light switch
XS1	Power plug

Alarm	412100460000
Models	100
	130
BT1	Temperature probe
BT2	Defrost probe
CE1	Electronic control unit
EH1	Condensate dry heater
EV1	Evaporator fan
HL	LED bulb
GD1	LED power supplier
QS1	Light switch
XS1	Power plug

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: **SLIM GD**
Serial number:

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

MACHINERY SAFETY

General Electrical Safety Standard EN 60335-1/Ed.2002+Amendments A11:2004,A12:2004,A13:2006,A14:2006 + A13:2008 A15:2011. Special Safety Standard for Appliances used in Commercial Cooling Systems 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+Amendment A2:2005-or:Ed.2006) Part 3: Limits - Section 3:Limitation of voltage fluctuations and flickers in LV power systems for equipment with rated current =16A EN61000-3-3 (Ed.1995+Amendments A1:2001,A2:2005) Part 4: Test and measuring techniques EN61000-4-2 Section 2: Tests on immunity to electrostatic discharge (Ed.1995) Part 4: Test and measuring techniques Section 4: Tests on immunity to transients/fast electrical trains 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 2002/95/EC of the European Parliament and of the Council of 27th January 2003
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

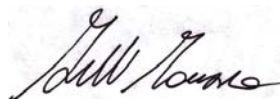
SUBSTANCES THAT REDUCETHE OZONE LAYER

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: **26 / 02 / 2013**
(place and date of issue)

Minelli Maurizio



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Idee che lavorano con te

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