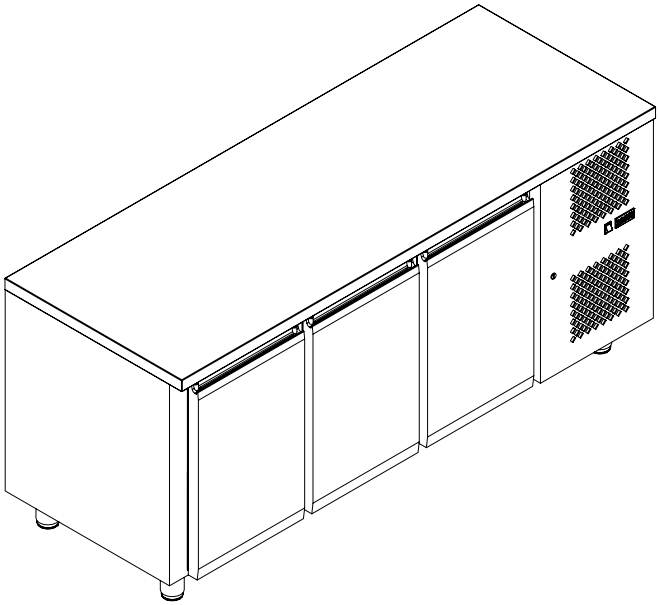
REFRIGERATED TABLES

TRANSLATION OF THE ORIGINAL INSTRUCTIONS



Revision 01 - 01/2023

EN USE AND MAINTENANCE MANUAL

EN

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TECHNICAL DATA SHEETS

TAVOLO 60

TAVOLO MID gastronomia

TAVOLO MID pasticceria

TAVOLO EKO pizza

TAVOLO MID pizza

EN

TABLE 60

SUITABLE TO STORE

GASTRONOMY

DAIRY PRODUCTS

CURED MEATS



TECHNICAL FEATURES

Version	▪ Normal temperature **(TN)** ▪ With glass doors **(PV)** ▪ With motor to the right ▪ With incorporated unit **(CG)** ▪ Without tray **(SP)** ▪ With stainless steel tray **(60)** ▪ With stainless steel tray and riser **(AL)** ▪ Coolant R290 (on request)			
Cooling type	▪ Ventilated (V)			
Operating temperature TN	▪ +2°C / +8°C			
Dimensions		Length	Depth	Height
	TF02	146 cm	60 cm	**(SP)** 82 min - 89 max cm
	TF03	191 cm		**(60)** 86 min - 93 max cm
	TF04	236 cm		**(AL)** 96 min - 103 max cm
Standard supplies	▪ 1 perforated steel shelf for door 335 x 460 mm ▪ 1 pair of L-shaped stainless steel guides per door ▪ LED lights for tables with PV glass doors ▪ Insulating under top			

EN

MID GASTRONOMY

SUITABLE TO STORE



GASTRONOMY



DAIRY PRODUCTS



CURED MEATS



TECHNICAL FEATURES	
Version	▪ Normal temperature **(TN)** ▪ Low temperature **(BT)** ▪ With glass doors **(PV)** ▪ With motor to the right or left ▪ With incorporated unit **(CG)** ▪ Without unit **(SG)** ▪ Without tray **(SP)** ▪ With stainless steel tray **(GN)** ▪ With stainless steel tray and riser **(GNAL)** ▪ With granite tray **(GNGRA)** ▪ With stainless steel tray and sink **(GN)** ▪ With stainless steel tray, riser and sink **(GNLAL)** ▪ With stainless steel snack tray **(GNSK)** ▪ Coolant R290 (on request)
Cooling type	▪ Ventilated (V)
Operating temperature TN	▪ +2°C / +8°C
Operating temperature BT	▪ -18°C / -22°C

EN

TECHNICAL FEATURES				
Dimensions		Length	Depth	Height
	TF02	**(CG)** 142 cm **(SG)** 120 cm	70 cm	(**SP**) 80 min - 87 max cm (**GN**) 84 min - 91 max cm (**GNAL**) 94 min - 101 max cm (**GNGRA**) 83 min - 90 max cm (**GNL**) 115 min - 120 max cm (**GNLAL**) 115 min - 120 max cm (**GNSK**) 105 min - 112 max cm
	TF03	**(CG)** 187 cm **(SG)** 165 cm		
	TF04	**(CG)** 232 cm **(SG)** 210 cm		
Standard supplies	▪ 1 plasticised grid GN 1/1 ▪ 1 pair of L-shaped stainless steel guides per door ▪ LED lights for tables with PV glass doors ▪ Insulating under top for BT versions, TN versions only with SP and GRA mode			

EN

MID PASTRIES

SUITABLE TO STORE



PASTRIES



TECHNICAL FEATURES

Version	▪ Normal temperature **(TN)** ▪ With motor to the right or left ▪ With incorporated unit **(CG)** ▪ Without unit **(SG)** ▪ Without tray **(SP)** ▪ With stainless steel tray **(MID)** ▪ With stainless steel tray and riser **(AL)** ▪ With granite tray **(GRA)** ▪ Coolant R290 (on request)			
Cooling type	▪ Ventilated (V)			
Operating temperature TN	▪ +2°C / +8°C			
Dimensions		Length	Depth	Height
	TF02	**(CG)** 160 cm **(SG)** 138 cm	80 cm	(**SP**) 80 min - 87 max cm (**MID**) 84 min - 91 max cm (**AL**) 94 min - 101 max cm (**GRA**) 83 min - 90 max cm
	TF03	**(CG)** 215 cm **(SG)** 193 cm		
	TF04	**(CG)** 270 cm **(SG)** 248 cm		
Standard supplies	▪ Rack with 5 holes ▪ 5 pairs of L-shaped stainless steel guides per door ▪ Insulating under top for SP version (without top) and GRA version (granite surface)			

EN

EKO PIZZA

SUITABLE TO STORE



PASTA INGREDIENTS



TECHNICAL FEATURES				
Version	▪ Normal temperature **(TN)** ▪ With motor to the right or left ▪ With incorporated unit **(CG)** ▪ With neutral 6-drawer chest ▪ With granite tray and riser **(EKOGN)** ▪ Coolant R290 (on request)			
Cooling type	▪ Ventilated (V)			
Operating temperature TN	▪ +2°C / +8°C			
Dimensions		Length	Depth	Height
	PZ02C6	152 cm	75 cm	(**EKO**) 103 min - 110 max cm
	PZ02	161 cm		
	PZ03C6	200 cm		
	PZ03	204 cm		
	PZ04C6	242 cm		
Standard supplies	▪ 1 plasticised grid GN 1/1 ▪ 1 pair of L-shaped stainless steel guides per door ▪ Insulating under top			

EN

MID PIZZA

SUITABLE TO STORE

PASTA INGREDIENTS



TECHNICAL FEATURES				
Version	▪ Normal temperature **(TN)** ▪ With motor to the right or left ▪ With incorporated unit **(CG)** ▪ With neutral 6-drawer chest ▪ With granite tray and riser **(MID)** ▪ Coolant R290 (on request)			
Cooling type	▪ Ventilated (V)			
Operating temperature TN	▪ +2°C / +8°C			
Dimensions		Length	Depth	Height
	PZ02	161 cm	75 cm	(**MID**) 104 min - 116 max cm
	PZ03	216 cm		
	PZ04	271 cm		
Standard supplies	▪ 1 pair of L-shaped stainless steel guides per door ▪ Insulating under top			

EN

USE AND MAINTENANCE MANUAL

EN

1. GENERAL PRELIMINARY INFORMATION

Thank you for purchasing our equipment.

Carefully read this manual before carrying out installation, maintenance and/or before using the equipment.

This manual accompanies all equipment versions **REFRIGERATED TABLES**.

The Manufacturer is not liable for breakages, accidents or various problems due to non-compliance with and in any case the non-application of the provisions contained in this manual.

1.1. PURPOSE OF THE DOCUMENT

The **User and Maintenance Manual** represents the reference document, drawn up by the Manufacturer of the equipment, aimed at operators and specialised personnel who will come into contact with it during its entire life cycle.

The purpose of the document is to provide information for the correct use of the equipment, from installation to disposal, bringing attention to the dangers that may arise from incorrect use and taking into account the reasonably foreseeable incorrect behaviour of the operator.

1.2. SUPPLY AND PRESERVATION

The manual is in **electronic format.**

This manual is an integral part of the equipment.

Keep this manual in a place that is accessible to all users for future consultation. In case of transfer or sale of the equipment, be sure to provide the new user with this manual, so that they may be properly informed about the installation procedure, the use and safety requirements.

1.3. CONSULTATION NOTES

SYMBOL	TYPE	DESCRIPTION
-	BOLD TEXT	Highlights some significant sentences and references in the text.
	GENERIC OR DEDICATED WARNING SIGN	It highlights risks to the health and safety of authorised personnel and/ or risks of damage to or malfunction of the machine.
	GENERIC OR DEDICATED PROHIBITION SIGN	Emphasises the prohibition to perform an action.
	GENERIC OR DEDICATED OBLIGATION SIGNAL	Indicates a prescription (obligation to perform an action).
	INFORMATION	Reports relevant information.

1.4. REGULATORY FRAMEWORK

The equipment is designed according to the regulatory framework described in the accompanying declaration of conformity and the identification plate placed on the same, as well as the requirements, which can be downloaded directly from the manufacturer's website.

1.5. WARRANTY

The warranty terms established by law apply. Should the equipment be faulty, contact the nearest Authorised Service Centre, or the reference Dealer.

The following documentation must be forwarded in order to repair the equipment:

- Serial number
- Copy of the invoice with the date of purchase of the equipment
- Description of the fault.

EN

2. SAFETY WARNINGS



The Manufacturer cannot be held liable for any damage, suffered by people or things, caused by non-compliance with the aforementioned requirements or deriving from tampering with even a single part of the equipment and from the use of non-original spare parts.



This professional equipment must only be used and serviced by adults (> 18 years in Europe or other limits defined by the local regulatory framework) with normal physical and mental health and adequately trained and informed on the subject of health and safety in the workplace.



WARNING
Electrical hazard. Disconnect the power supply before carrying out maintenance work.



WARNING
This equipment contains flammable and explosive hydrocarbon refrigerants.



WARNING
Fire or explosion hazard. The machine contains a flammable coolant. Do not use mechanical devices or equipment that can ignite fires and explosions. Use only non-sparking equipment for Ex zones. Do not puncture coolant pipes.



WARNING
Fire or explosion hazard. The machine contains a flammable coolant. Consult the safety data sheets of the coolant before working on the equipment.



WARNING
Fire or explosion hazard. The machine contains a flammable coolant. Follow the handling instructions given.



WARNING
Cutting hazard. The profile of doors and drawers has sharp edges. Use the handle to close the equipment.



Only qualified technical personnel should carry out maintenance work.



Qualified technical personnel must remove the electrical current and earth the entire equipment before carrying out maintenance work. He/she must use ESD clothing, shoes and equipment capable of slowly dissipating electrostatic charges and not producing them.



When charging the flammable coolant, the requirements in the safety data sheet of the substance must be strictly adhered to.



Only use original spare parts.



It is strictly forbidden to make changes to the equipment.



Do not start the equipment with wet hands or when there is contact with water.

2.1. OBLIGATIONS AND PROHIBITIONS

2.1.1. OBLIGATIONS

- Only qualified technical personnel should perform the installation work (see chapter **'INSTALLATION')**
- Keep the entire area around the equipment free and clean
- Keep the entire perimeter of the equipment free so that there is air circulation
- Use only food grade containers
- Wait until the set temperature is reached before loading the product into the equipment.
- Place a flammable warning sign in the workplace.

2.1.2. PROHIBITIONS

- Do not install the equipment if it appears damaged upon receipt
- Do not allow children to play with the equipment
- Do not use the equipment as a work surface or as a support surface
- Do not modify or tamper with the equipment in any way
- Do not place or store flammable liquids or materials, or easily ignitable objects inside the equipment or in the immediate vicinity
- Do not place any kind of material (boxes or other) on the equipment
- Do not handle the equipment by the handle. Grasp it at the sides
- Do not place the equipment under direct exposure to sunlight and all other forms of thermal radiation
- Do not place the equipment inside a room with high relative humidity (potential formation of condensate)
- Do not place the equipment inside a closed niche or against the wall
- Do not obstruct the air vents
- Do not set temperatures lower than permitted
- Do not damage and bend the evaporator flaps and the coolant pipes
- Do not store medicines, blood and blood products in the equipment
- Do not store explosive substances, such as pressurised containers with flammable propellants, in the equipment
- Do not store chemical and flammable products
- Do not place hot pans, hot products and objects on or near the equipment
- Do not place electrical appliances inside the equipment.

EN

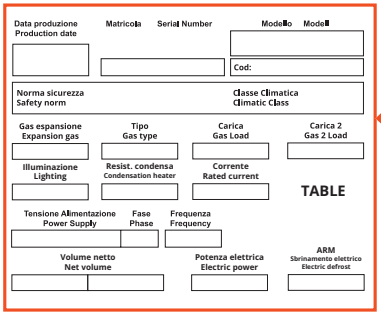
3. IDENTIFICATION AND DESCRIPTION

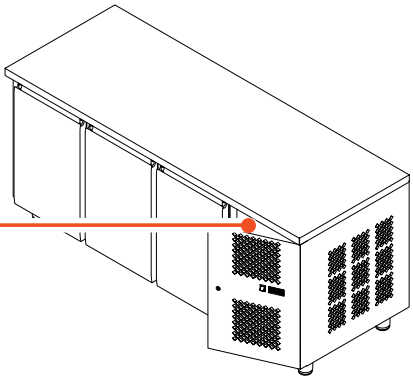
3.1. EQUIPMENT IDENTIFICATION

The nameplate is on the rear of the equipment. Contains:

- Serial number
- The type/functional features
- The details of the certification and marking.

Do not remove the identification plate and/or replace it with other plates. Contact the manufacturer if required.





The nameplate may change depending on the country of destination of the equipment.

3.2. INTENDED USE

The equipment is a **REFRIGERATED TABLES** for professional use. Allows the storage of packed and/or unpacked food.

The Manufacturer cannot be held liable for uses other than those indicated.



Do not use this equipment to store products other than those intended.



Do not use pressurised containers with flammable propellant in the equipment.

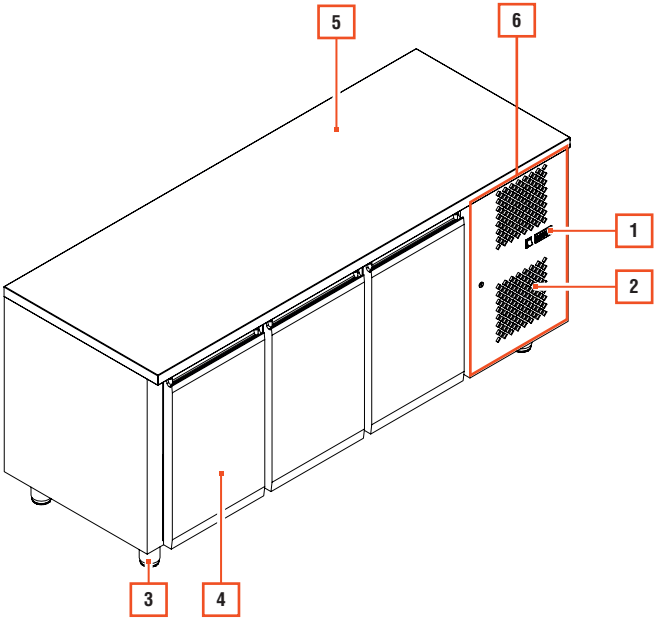
3.3. DESCRIPTION

The equipment has a stainless steel internal and external structure. The bottom and ceiling are made of galvanised steel. It has an insulation density of 40 kg/m^3 made of polyurethane resins.
It is equipped with a power supply cable.

The insulation is made without the use of environmentally hazardous CFCs.

EN

3.4. MAIN COMPONENTS



POS.	ELEMENT	NOTES
1	CONTROL PANEL	
2	SUCTION GRID	
3	ADJUSTABLE FEET	Optional: ▪ Lockable wheels.
4	DOOR	Optional: ▪ Glazing.
5	WORK SURFACE	
6	COOLING UNIT	Including: ▪ Compressor ▪ Capacitor ▪ Chamber temperature probe ▪ Fan.
-	DOOR GASKET	
-	LED LAMP	For glass doors. The number of LEDs varies depending on the number of ports: ▪ 2 ports, 1 LED. ▪ 3 ports, 2 LEDs. ▪ 4 ports, 2 LEDs.

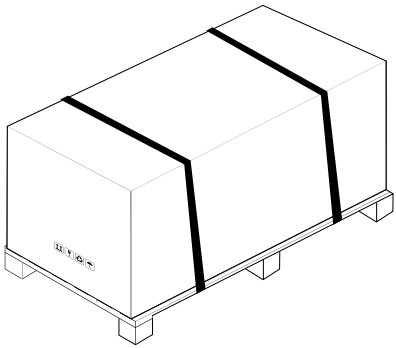
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4. RECEIPT AND HANDLING

4.1. EQUIPMENT RECEIPT

The equipment is delivered on a pallet packed in strapped cardboard.

Upon delivery, check that the packaging is intact and that it has not been damaged during transport.



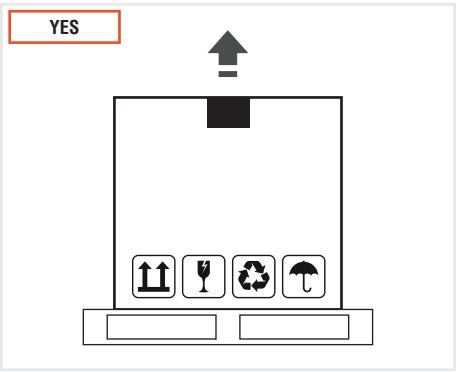
4.1.1. HANDLING WITH PACKAGING

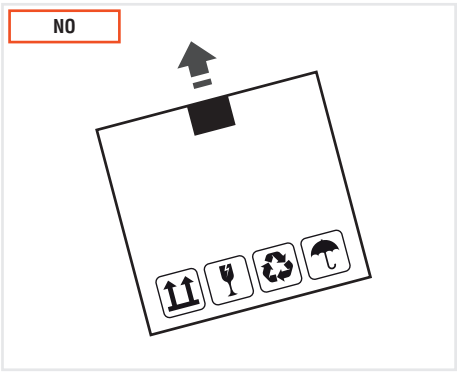
Only qualified technical personnel should perform handling operations on the equipment.

The manufacturer accepts no liability in the event of non-compliance with current safety regulations.

Always handle the packaging in an upright position (see the instructions on the packaging).

If the packaging is tilted, wait at least 8 hours before starting. In this way, the oil in the condenser flows to all parts for lubrication.

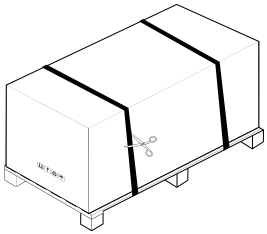
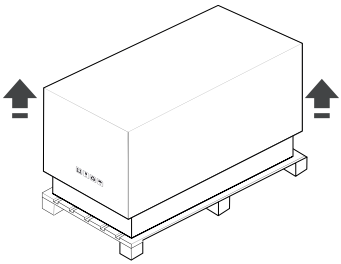




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4.1.2. PACKAGING REMOVAL AND INSPECTION

For the removal of the packaging:

STEP	ACTION	PICTURE
1	Remove the bands.	
2	Remove the packaging cardboard.	
3	Lift the equipment to remove it from the pallet. Place the equipment in its designated place. **Note:** Handle the equipment with a pallet truck or forklift truck suitable for the weight to be handled.	
4	Remove the protective films used to protect the steel (both external and internal).	

Keep the packaging pallet.

After removing all packaging materials, check for any anomalies.

If any anomalies are found, do not install the equipment. Contact your Dealer or Authorised Service Centre within 8 days from the date of purchase.

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4.1.3. PACKAGING DISPOSAL

The materials used for packaging are recyclable and must be collected.



Separate the various packaging waste materials and dispose of them in compliance with the regulations in force in the country where the oven is installed.

4.2. HANDLING

4.2.1. DIVISION OF VERSIONS AND PACKAGING DIMENSION FOR HANDLING

VERSION	LENGTH	DEPTH	HEIGHT
60 TF02	L.1460 mm	D.600 mm	▪ (**SP**) H.820 min. H.890 max mm ▪ (**60**) H.860 min. H.930 max mm ▪ (**AL**) H.960 min. H.1030 max mm
60 TF03	L.1910 mm		
60 TF04	L.2360 mm		
MID GASTRONOMY TF02 - CG	L.1420 mm	D.700 mm	▪ (**SP**) H.800 min. H.870 max mm ▪ (**GN**) H.840 min. H.910 max mm ▪ (**GNAL**) H.940 min. H.1010 max mm ▪ (**GNGRA**) H.830 min. H.900 max mm ▪ (**GNL**) H.1150 min. H.1200 max mm ▪ (**GNLAL**) H.1150 min. H.1200 max mm ▪ (**GNSK**) H.1050 min. H.1120 max mm
MID GASTRONOMY TF03 - CG	L.1870 mm		
MID GASTRONOMY TF04 - CG	L.2320 mm		
MID GASTRONOMY TF02 - SG	L.1200 mm		
MID GASTRONOMY TF03 - SG	L.1650 mm		
MID GASTRONOMY TF04 - SG	L.2100 mm		
MID PASTRIES TP02 - CG	L.1600 mm	D.800 mm	▪ (**SP**) H.800 min. H.870 max mm ▪ (**MID**) H.840 min. H.910 max mm ▪ (**AL**) H.940 min. H.1010 max mm ▪ (**GRA**) H.830 min. H.900 max mm
MID PASTRIES TP03 - CG	L.2150 mm		
MID PASTRIES TP04 - CG	L.1700 mm		
MID PASTRIES TP02 - SG	L.1380 mm		
MID PASTRIES TP03 - SG	L.1930 mm		
MID PASTRIES TP04 - SG	L.2480 mm		

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VERSION	LENGTH	DEPTH	HEIGHT
EKO PIZZA PZ02	L.1610 mm	D.750 mm	▪ (**EKO**) H.1030 min. H.1100 max mm
EKO PIZZA PZ03	L.2040 mm		
EKO PIZZA PZ02 C6	L.1520 mm		
EKO PIZZA PZ03 C6	L.2000 mm		
EKO PIZZA PZ04 C6	L.2420 mm		
MID PIZZA PZ02	L.1610 mm	D.800 mm	▪ (**MID**) H.1040 min. H.1160 max mm
MID PIZZA PZ03	L.2160 mm		
MID PIZZA PZ04	L.2710 mm		

4.2.2. HANDLING OPERATIONS

Carefully read the instructions before moving the equipment.



Only qualified technical personnel should perform handling operations on the equipment.



The manufacturer accepts no liability in the event of non-compliance with current safety regulations.



Move the equipment while keeping it upright at all times. Do not tilt the equipment.

Handle the equipment with a pallet truck or forklift truck suitable for the weight to be handled.

If the equipment is tilted, wait at least 8 hours before starting up. In this way, the oil in the condenser flows to all parts for lubrication.



CAUTION
When handling, take care not to damage the equipment itself, persons, animals and/or things in the immediate vicinity.



CAUTION
Do not pull the equipment by the door opening handle to move it.

EN

5. INSTALLATION



Only qualified technical personnel should perform installation operations on the equipment.



The manufacturer accepts no liability in the event of non-compliance with current safety regulations.



Do not install and use the equipment in ATEX classified environments, locations or areas.

5.1. INSTALLATION SITE

5.1.1. FEATURES OF INSTALLATION SITE



Do not install the equipment outdoors, directly exposed to the weather.

The installation room must be a room with adequate and controlled temperature and humidity in order to avoid malfunctions and condensation.

Follow the reported permissible environmental conditions:

PERMITTED ENVIRONMENTAL CONDITIONS	
Ambient temperature	max 30°C
Air humidity	max 60%

Do not use the equipment outside the permitted conditions of use and operation.



Do not obstruct the supply and return air ventilation openings in the equipment.



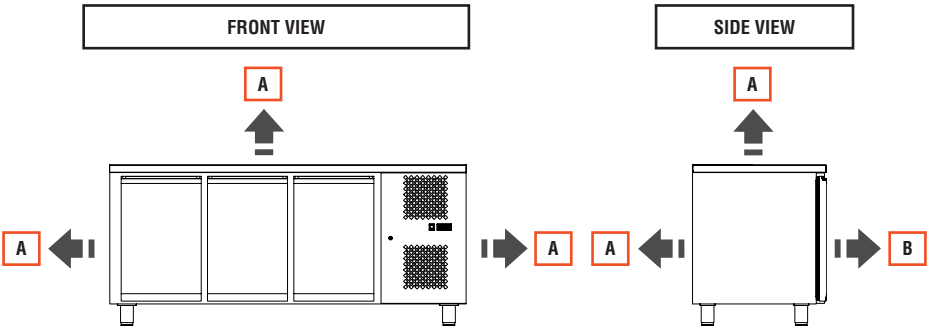
Place the equipment away from heat sources and open flames.

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5.1.2. MINIMUM SAFETY DISTANCES

In order to ensure proper functioning of the equipment and thus proper air circulation, observe the minimum safety distances from side walls, other equipment and/or heat sources.

MINIMUM SAFETY DISTANCES		
A	Side / Rear / Upper	10 cm
B	Door side	60 cm

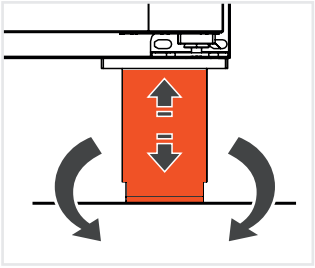


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5.2. FEET PLACEMENT AND ADJUSTMENT

Position the equipment perfectly level, so that it can work properly, the condensation water from the defrosting process can drain off correctly and there are no noisy vibrations of the motor.

For **positioning and adjusting the equipment feet**:

STEP	ACTION	PICTURE
1	Place the equipment on a horizontal plane.	
2	Adjust (if necessary) the height of the screw feet.	
3	Check the flatness with a spirit level.	

5.3. CONDENSATE WATER DRAIN - DRAIN CONNECTION

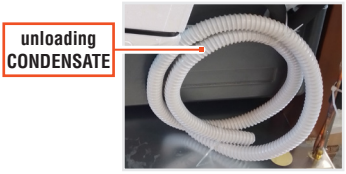
The equipment:

- With built-in refrigeration monoblock unit, it is equipped with automatic defrosting and evaporation of condensate water
- With dry-up for a remote unit, it is equipped with a thermostatic valve.

Both versions are equipped with a drain pipe and siphon for connection to the water drainage system.

Do not install the equipment without a siphon. Each drain must have its own siphon.

The connection to the water drainage system is the responsibility of the end user.



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5.4. HANDLE ASSEMBLY WITH GLASS DOOR (IF FITTED)

For **assembling handle with glass door**:

STEP	ACTION
1	Position the handle at the holes.
2	Tighten the fixing screws.
3	Close the door.

EN

6. CONNECTIONS

6.1. ELECTRICAL CONNECTION



Only qualified technical personnel should perform connection operations on the equipment.



The electrical connection must be carried out in accordance with the legal compendium and regulations applicable in the country where the equipment is installed.

6.1.1. ELECTRICAL POWER SUPPLY CONNECTION

Refer to the attached wiring diagram of the equipment.

To make a correct electrical connection:

- Set up a residual current circuit breaker
- Check that the mains voltage and frequency correspond to those on the nameplate. A variation ± 10% of the rated voltage is allowed
- Connect the equipment to an efficient earthing system. Verify operation and declaration of conformity in accordance with the regulatory compendium of the country of installation
- Install a bipolar cut-off switch with opening of the contacts at least 3 mm, upstream of the plug. This switch is mandatory when the load exceeds 1000 watts or when the equipment is connected directly without the use of a plug. It must therefore be placed in the immediate vicinity of the equipment so that it can be clearly seen by personnel in the event of maintenance
- Check that the cross-section of the power cable is adequate for the power absorbed by the equipment

It is compulsory by law to connect the equipment to an efficient earthing system, declared and verified by the relevant authorities.

Do not connect the electrical plug of the equipment to an extension cord and/or reducer.

Proceed as follows:

STEP	ACTION
1	Connect the power supply plug to the wall socket.



WARNING
Electrical hazard. If the power cable is damaged, replace it.

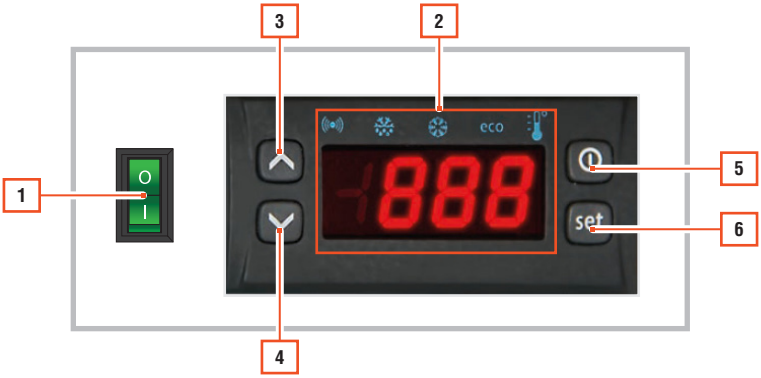


The manufacturer disclaims all liability for incorrect connections, not carried out in a workmanlike manner or by unqualified and authorised technical personnel.

EN

7. CONTROL PANEL

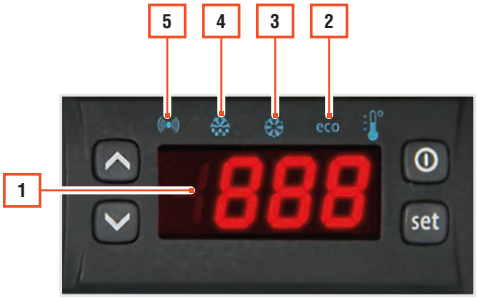
7.1. CONTROL PANEL (MOD. EW961 - EW974)



POS.	ICON	ELEMENT	DESCRIPTION
1	-	**MAIN SWITCH 0/I**	▪ Set to **"0"**: machine switched off ▪ Set to **"I"**: machine electrically powered.
2	-	**DISPLAY**	Displays the equipment operating parameters.
3		**UP KEY**	**Press and release** Scrolls the items within the menu Increases the values **Press for at least 5 sec** Activates the manual defrosting function
4		**DOWN KEY**	**Press and release** Scrolls the items within the menu Decreases the values **Press for at least 5 sec** User configurable function
5		**STAND-BY KEY (ESC)**	**Press and release** Returns to an earlier level than the current menu Confirms parameter Value **Press for at least 5 sec** Activates the Stand-by function (when not inside the menus)

POS.	ICON	ELEMENT	DESCRIPTION
6	set	**SET KEY (ENTER)**	**Press and release** Displays any alarms (if present) Accesses the base controls menu **Press for at least 5 sec** Accesses the programming menu Confirms the controls

7.1.1. DISPLAY



POS.	ICON	ELEMENT	DESCRIPTION
1	-	**DISPLAY**	-
2	eco	**Reduced SET / SET LED**	▪ Flashing: reduced set active ▪ Quick flash.: access to level 2 parameters ▪ Off: LED off in all other cases
3		**Compressor LED**	▪ Fixed on: compressor on ▪ Flashing: delay, protection or activation blocked ▪ Off: LED off in all other cases
4		**Defrost LED**	▪ Fixed on: defrost on ▪ Flashing: manual or digital input activation ▪ Off: LED off in all other cases
5		**Alarm LED**	▪ Fixed on: presence of an alarm ▪ Flashing: alarm silenced ▪ Off: LED off in all other cases
-		**Fan LED**	▪ Fixed on: fans on ▪ Off: LED off in all other cases

EN

7.2. ACCESS AND USE OF THE MENU

The resources are organised in two menus:

- **Machine Status Menu**
- **Programming Menu**

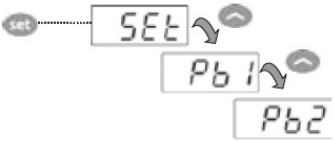
Press the ⏻ button once to confirm the last value shown on the display and return to the previous display. Inactivity of the keyboard for more than 15 seconds (time-out) also confirms the last displayed value and a return to the previous display.

7.2.1. MACHINE STATUS MENU

To access the **Machine Status menu,** press and release the set button.

If no alarms are in progress, the "SEt" label is displayed.

Press keys ∧ and ∨ to scroll the folders of the Machine Status menu.



- AL: alarms folder (visible only if there are active alarms)
- SEt: set folder
- Pb1: probe 1 value folder
- Pb2: probe 2 value folder **

(EW961 and EW974 models only)**

Setpoint setting: to view the Setpoint value, press the set key when the "SEt" label is displayed.

The Setpoint value appears on the display. To change the Setpoint value, use keys ∧ and ∨ within 15 seconds. Press set to confirm the change.



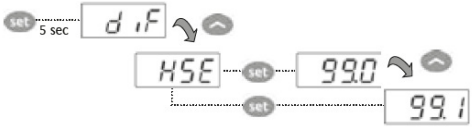
Probe display: when the Pb1 or Pb2* labels are present, press the key to display the value measured by the associated probe (* Pb2 is only present in **models EW961 and EW974**).

7.2.2. PROGRAMMING MENU

Press the set key for more than 5 seconds to access the **Programming menu**. If applicable, an access PASSWORD "PA1" is required.

When accessed, the display will show the first parameter ("diF").

Use keys ∧ and ∨ to scroll through all the parameters of the Programming menu:



Select the desired parameter using the ∧ and ∨ keys. Press the set key to display the current parameter value. Use the ∧ and ∨ keys to change their value and press the set key to store the value.

EN

Note: it is recommended to switch the equipment off and on again each time the parameter configuration is changed to prevent malfunctions on the configuration and/or timings in progress.

7.2.3. SETPOINT MODIFICATION BLOCK

The equipment provides the option to disable keyboard operation.

The keyboard can be locked by programming the "LOC" parameter.
If the keyboard is locked, it is always possible to access the Machine Status menu by pressing the set key and display the Setpoint, however its value cannot be changed.

To unlock the keyboard repeat the procedure used to lock it.

7.2.4. PASSWORD

- Password "PA1": allows access to level 1 parameters (User)
- Password "PA2": allows access to level 2 parameters (Installer).

Level 2 parameters also contain all level 1 parameters.

In the standard configuration the password "PA1" is not enabled (value = 0) while password "PA2" is (value = 15).

To enable the password "PA1" (value ≠ 0) and assign it the desired value, enter the Programming menu, select the "PS1" parameter with the ∧ and ∨ keys, press the set key, set the desired value and confirm it by pressing the key again.

If the password "PA1" is enabled, when entering the Programming menu, you will be asked to enter the password "PA1" or "PA2" based on the parameters you wish to change. To enter the password "PA1" (or "PA2"):



If the password entered is wrong, the instrument will display the "PA1" (or "PA2") label and the entry procedure must be repeated. Level 2 parameters can also be accessed from level 1 parameters, by selecting the "PA2" parameter (present at level 1) with the keys ∧ and ∨ and then pressing the key set.

EN

8. USE

Before using the equipment, check that it is in perfect condition. In the presence of faults, the equipment must be decommissioned and the Technical Assistance Service must be contacted.



CAUTION
Keep all the supply and return air ventilation openings inside the equipment free of obstructions.

8.1. CHECKS BEFORE USE



Only specialised technical personnel should carry out the initial start-up of the equipment.

Before switching on, check that:

- The equipment and surrounding surfaces are dry
- The equipment is in a perfectly flat and level position
- The operating parameters have been adjusted (see chapter **"CONTROL PANEL"**)
- The main switch is in the "0-OFF" position
- There is no direct or indirect contact with live electrical parts



Do not perform operations with wet or damp hands.

Clean the equipment and its components thoroughly before loading the product (see chapter "CLEANING").

8.2. ACTIVATION



Do not start the equipment with wet hands or when there is contact with water.

For switching on the equipment:

STEP	ACTION	PICTURE
1	Press the O/I main switch. **Note:** when switched on, the button lights up green.	

EN

8.3. SETTING THE TEMPERATURE

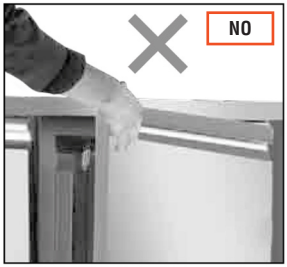
To **set the temperature**:

STEP	ACTION
1	Press and hold the key set on the control panel. **Note:** if no alarms are in progress, the "SET" label will be displayed.
2	Set the required temperature by using keys ^ and v.
3	Press set to confirm.

8.4. OPENING AND CLOSING DOORS

Hold the handle as indicated.





When the door is opened, the cooling fan stops for energy saving and the lamp on the door lights up. When closed, the lamp switches off and the fan reactivates.

The door closure is servo-assisted with spring-loaded hinges.

WARNING
Cutting hazard. The profile of doors and drawers has sharp edges. Use the handle to close the equipment.

EN

8.5. PRODUCT LOADING



Load a maximum of 15 kg on each shelf. The load must be evenly distributed on the shelf.



For proper storage, do not introduce hot products. Wait for the product to cool down before placing it inside the equipment.



Only open the door for the time necessary for loading and unloading products inside the equipment.

Before loading product, wait until the desired temperature inside the equipment has been reached.

Arrange the product so as not to obstruct the circulation of refrigerated air.



Make sure that the cold chain has been respected during transport and/or storage of the product.



Do not place products such as cured meats, sliced meats and mature cheeses directly on the shelves of the equipment. Use grids that allow the product to breathe.

EN

8.6. DEFROST

8.6.1. AUTOMATIC DEFROST

The equipment is equipped with an **automatic system for daily defrosting** set by the Manufacturer.
Act on the control panel to change the automatic defrosting (number, duration, interval).

8.6.2. MANUAL DEFROST

A manual defrost can be performed **if required**.

Perform defrosting with door open or door closed. In the case of defrosting with the door closed, the time required will be longer.

To perform **manual defrosting**:

STEP	ACTION
1	Press and hold the button for 5 seconds. **Note:** the equipment must be switched off/in stand-by.

If the defrost conditions are not satisfied:

- The parameter "OdO" ≠ 0 **(models EW961, EW971 and EW974)**
- The temperature of the evaporator probe Pb2 is higher than the defrost end temperature **(models EW971 and EW974)**.

The display will flash 3 times, indicating that the operation will not be carried out.

8.7. SWITCHING OFF

To **shut down the equipment**:

STEP	ACTION	PICTURE
1	Press the O/I main switch. **Note:** the button is no longer illuminated in green.	

EN

9. CLEANING

9.1. CLEANING SAFETY WARNINGS



WARNING
Electrical hazard. Disconnect the power supply before cleaning.



WARNING
Electrical hazard. Do not use water jets and/or high-pressure lances to wash the internal and external parts of the equipment.



Do not damage the refrigerant fluid circuit.

The first cleaning of the equipment must be carried out by specialised personnel.

Observe the following indications:

- Clean the surfaces of the equipment regularly, to avoid deterioration of the equipment materials
- Use only lukewarm water with non-aggressive detergents, then dry damp parts with a soft cloth
- Carry out at least daily periodic cleaning of the loading area to prevent the development and accumulation of bacteria
- Carry out at least one internal cleaning per month if the equipment is used to blast chill frozen products
- Carry out at least one weekly periodic cleaning of the bottom of doors and drawers
- Do not use water jets to wash the internal parts of the equipment
- Do not direct water jets at electrical parts
- Do not use hard metal tools to remove any ice that may have formed



Use work gloves when carrying out cleaning operations.



Do not use cleaning agents containing chlorine, dilute solutions, caustic soda, abrasive detergents, muriatic acid, bleach or other products that can scratch or sand.



Do not use a steam cleaner to clean the equipment.

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9.2. TABLE OF CLEANING OPERATIONS

The table lists a number of cleaning operations to be performed according to the recommended schedule.

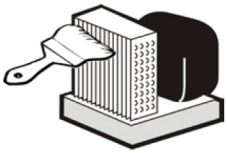
OPERATION	FREQUENCY				
	DAILY	WEEKLY	MONTHLY	AT 6-MONTHLY INTERVALS	YEARLY
Cleaning the loading area	■				
External cleaning	■				
Cleaning the inside of the door near the gaskets	■				
Cleaning the bottom of doors and drawers		■			
Cleaning inside			■		

9.3. GENERAL CLEANING

Carry out general cleaning of the equipment using a soft cloth and non-aggressive cleaning products.
Remove the grids inside the equipment for better cleaning. Clean the grills with a soft cloth.

9.4. CLEANING THE CONDENSER

Clean the capacitor periodically to ensure its proper functioning.
Use an air jet blowing from the inside to the outside of the unit. If this is not possible, use a long-bristled brush on the outside of the capacitor.





Do not use water jets.

9.5. CLEANING THE GLASS DOOR (IF PRESENT)



Do not use abrasive material such as scourers, metal sponges or other materials that may compromise the transparency of the glass and/or cause it to break.

For cleaning the glass door (interior and exterior), use a suitable degreasing detergent, observing the directions, instructions for use and warnings. Rinse with a sponge soaked in water.

EN

10. ROUTINE



WARNING
Electrical hazard. Disconnect the power supply before carrying out maintenance work.



Only authorised technical personnel should service the equipment.

10.1. ROUTINE MAINTENANCE

Ensure smooth operation over time of the equipment by performing periodic/preventive checks and maintenance.

10.1.1. INSPECTING AFTER DELIVERY

The following table lists a series of controls and activities that need to be carried out according to the recommended frequency.

OPERATION	FREQUENCY			
	WEEKLY	MONTHLY	AT 6-MONTHLY INTERVALS	YEARLY
Check that the door seals and the door itself close properly.		■		
Check the correct functioning of the condensate water drainage system		■		
Check that there are no coolant leaks and that the coolant system is working properly  **Checking for refrigerant gas leaks must be carried out by qualified and authorised personnel in accordance with local regulations.**				■
Check that the maintenance status of the electrical system is in complete safety.				■
Check the correct electronic control setting.				■

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10.2. EXTRAORDINARY MAINTENANCE

Special maintenance includes service, repair, and restoration of nominal operating conditions or replacement of a faulty, defective or worn component.

10.2.1. REPLACEMENT OF MOTOR FAN



For replacement, contact the Authorised Dealer or Service Centre.

10.2.2. COOLING UNIT REPLACEMENT



For replacement, contact the Authorised Dealer or Service Centre.

10.2.3. REPLACEMENT OF LIGHTING LAMPS



Check the function of the LED lamp before replacing it.

Press the main switch O/I and check the ignition, if the lamp does not ignite, proceed to replacement.

Use a lamp with the same technical characteristics. Check the data on the lamp.

To **replace the LED lamp**:

STEP	ACTION
1	Remove the lamp from the support hooks securing it to the pillar.
2	Disconnect the cable.
3	Connect the cable to the new lamp.
4	Hang the new lamp on the support hooks.

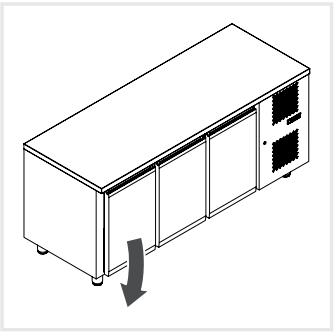
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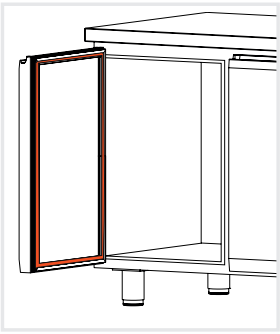
10.2.4. DOOR GASKET REPLACEMENT

To **replace the gasket on the door**:

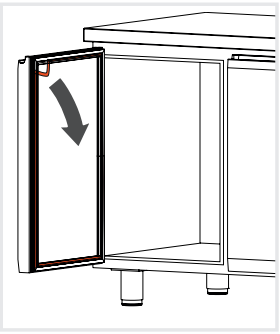
STEP	ACTION
1	Open the equipment door.
2	Gently pull out one corner of the gasket and remove it from the housing.
3	Replace the gasket with one that has the same characteristics.
4	Close the equipment door.

1





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11. DIAGNOSTICS

11.1. ALARMS

LABEL	FAULT	CAUSE	EFFECTS	TROUBLESHOOTING
E1	Probe1 faulty (cell)	▪ Reading of values outside the operating range ▪ Faulty / shorted / open probe	▪ Display of the E1 label ▪ Fixed Alarm Icon ▪ Disabling of the maximum and minimum alarm regulator ▪ Compressor operation based on the “Ont” and “OFt” parameters	▪ Check the probe type (NTC) ▪ Check the probe wiring ▪ Replace the probe
E2	Probe 2 faulty (defrost)	▪ Reading of values outside the operating range ▪ faulty / shorted / open probe	▪ Display of the E2 label ▪ Fixed Alarm Icon ▪ The Defrost cycle will end due to Time out (Parameter “dEt”)	▪ Check the probe type (NTC) ▪ Check the probe wiring ▪ Replace the probe
AH1	HIGH Alarm Probe 1 temperature	▪ Value read by Pb1 > HAL after time of “tAO”. (see “MIN/MAX TEMP. ALARMS”)	▪ Recording of label AH1 in folder AL ▪ No effect on the adjustment	▪ Wait for the temperature value read by probe 1 to return below HAL.
AL1	LOW Alarm Probe 1 temperature	▪ Value read by Pb1 < LAL after time of “tAO”. (see “MIN/MAX TEMP. ALARMS”)	▪ Recording of label AL1 in folder AL ▪ No effect on the adjustment	▪ Wait for the temperature value read by probe 1 to return above LAL.
EA	External Alarm	▪ Activation of the digital input (H11 set as an external alarm)	▪ Recording of label EA in folder AL ▪ Fixed Alarm icon ▪ Adjustment blocked if EAL = y	▪ Check and remove the external cause that caused the alarm on D.I.
OPd	Door Open Alarm	▪ Activation of the digital input (H11 set as door switch) (for a time greater than tdO)	▪ Recording of label Opd in folder AL ▪ Fixed Alarm icon ▪ Regulator block	▪ Close the door ▪ Delay function defined by OAO

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LABEL	FAULT	CAUSE	EFFECTS	TROUBLESHOOTING
Ad2	Defrost for time-out	▪ End defrost by time instead of reaching the end defrost temperature detected by probe Pb2.	▪ Recording of label dAt in folder AL ▪ Fixed Alarm icon	▪ Wait for the next defrost for automatic return

11.2. DIAGNOSTICS

The alarm condition is always signalled by the buzzer (if present) and by the alarm icon ((•)).
To turn off the buzzer, press and release any key, the relevant icon will continue to flash.

Note: if alarm exclusion times are in progress, the alarm is not signalled.



The alarm warning from faulty probe 1 (Pb1) appears directly on the instrument display with the indication E1.



Models EW961 and EW974: The alarm warning from faulty probe 2 (Pb2) appears directly on the instrument display with the indication E2.

12. DECOMMISSIONING AND DISPOSAL

12.1. LONG PERIODS OF INACTIVITY

If the equipment is not used for a long period of time (more than 2-3 weeks):

STEP	ACTION
1	Disconnect the power supply.
2	Carry out a thorough cleaning of the equipment (see chapter **'CLEANING'**).
3	Cover the equipment with a cloth.

12.2. DISPOSAL



The electrical and electronic equipment that make up the appliance, such as lamps, electronic controls, electrical switches, electric motors and other electrical material in general, must be disposed of and/or recycled separately from urban waste according to the procedures of the regulations in force on the subject in each country.

Do not disperse materials in the environment.

In addition, all materials constituting the product, such as sheet metal, plastic, rubber, glass, etc., must be recycled and/or disposed of in accordance with the procedures of the relevant regulations.

Illegal or incorrect disposal of the equipment entails application of the sanctions required by the legislation in force in the country of installation.

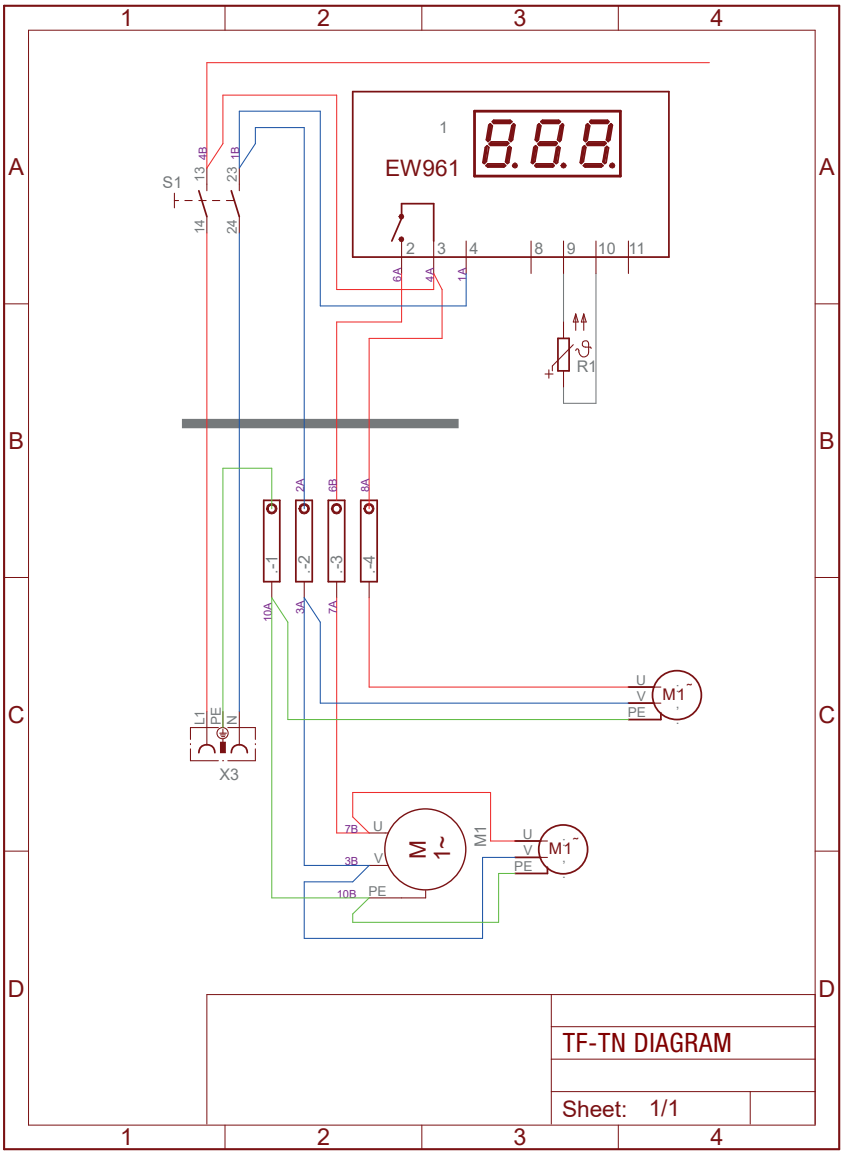
Do not disperse the coolant and oil in the environment.

Make the equipment, destined for dismantling, unusable by removing the power supply cables.

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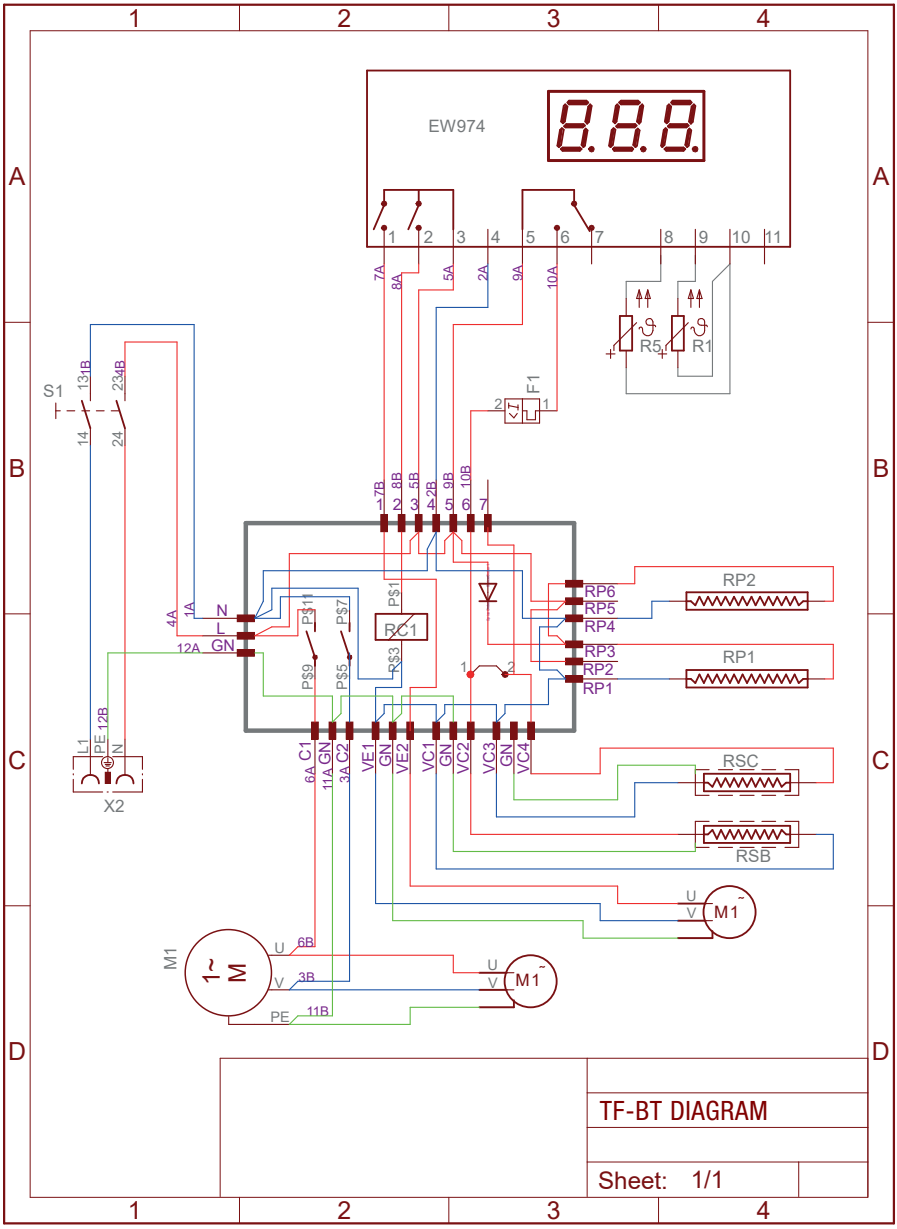
13. ATTACHMENTS

13.1. TN WIRING DIAGRAM



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13.2. BT WIRING DIAGRAM



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13.3. TN PARAMETERS

PARAMETER	DESCRIPTION	VAL
Set		2
CP	**COMPRESSOR PARAMETERS**	
diF	Differential. Compressor relay tripping differential: the compressor stops on reaching the Setpoint value set (as indicated by the adjustment probe), and restarts at temperature value equal to the Setpoint plus the value of the differential. Note: it cannot be 0.	2
HSE	Higher Set. Maximum value attributable to the Setpoint.	10
LSE	Lower Set. Minimum value attributable to the Setpoint.	2
CP	**COMPRESSOR PROTECTIONS**	
Ont (1)	On time (compressor). Compressor activation time if probe is faulty. If set to “1” with Oft at “0” the compressor always remains on, while for Oft>0 it operates in duty cycle mode.	5
Oft (1)	OFF time (compressor). Compressor deactivation time if probe is faulty. If set to “1” with Ont at “0” the compressor always remains off, whereas for Ont>0 it operates in duty cycle mode.	7
dOn	Delay (at) On compressor. Compressor relay activation delay time from call.	0
dOf	Delay (after power) OFF. Delay time after switch-off; the indicated time must elapse between switching off the compressor relay and the next switch-on.	0
dbi	Delay between power-on. Delay time between switch-on; the specified time must elapse between two successive switch-on of the compressor.	1
OdO	Delay output (from power) On. Output activation delay time from instrument switch-on or after a power failure.	0
dit	**DEFROST REGULATOR (folder labelled “dEF”)**	
dit	Defrost interval time. Interval time between two successive defrosts.	6
dCt	Defrost Counting type. Selection of count mode for the defrosting interval. 0 = Compressor hours in operation (DIGIFROST method) 1 = Real Time - device hours in operation 2 = Compressor stop.	1
dOH	Defrost offset time. Time delay for the start of the first defrost from instrument switch-on.	0
dEt	Defrost Endurance time. Defrost time-out; determines the maximum duration of defrosting.	30
dPO	Defrost (at) power On. Determines if at the start-up the instrument must enter defrosting (provided the measured temperature allows this) y = yes; n = no.	n
diS	Display (folder labelled “diS”)	
LOC	(Keyboard) Lock. Keypad lock. However, there remains the possibility to go into parameter programming and change parameters, including the status of this parameter to allow the keypad to be unlocked. Y = yes (keyboard locked); n = no.	n

PARAMETER	DESCRIPTION	VAL
PA1	Password 1. When enabled (value other than 0), it is the access key for level 1 parameters.	0
CA1	Calibration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.	0
ddL	Defrost display lock. Viewing mode during defrosting. 0 = displays the temperature read by the temperature control probe; 1 = locks the reading on the temperature value read by the temperature control probe when defrosting starts, and until the next time the Setpoint value is reached; 2 = displays the label “deF” during defrosting, and until the next time the Setpoint value is reached.	1
dro	Display read-out. Select °C or °F for displaying the temperature read by the probe. 0 = °C, 1 = °F. PLEASE NOTE: the switch between °C and °F DOES NOT modify Setpoint, differential, etc. (for example set=10°C becomes 10°F).	0
	CONFIGURATION (folder labelled “CnF”)	
H00 (!)	Probe type selection, PTC or NTC. 0 = ptc; 1 = NTC.	1
reL	ReLease firmware. Device version: read only parameter.	22
tAb	tAble of parameters. Reserved: read only parameter.	21
	COPY CARD (folder labelled "Fpr")	
UL	Upload. Programming parameter transfer from instrument to Copy Card.	n
dl	Download. Programming parameter transfer from Copy Card to instrument.	n
Fr	Format. Deletion of all data entered on the key.	

PLEASE NOTE: the use of the “Fr” parameter (formatting the key) results in the definitive loss of the data entered on the same. This operation cannot be cancelled. (1) See Duty Cycle diagram.

(!) If one or more of these parameters highlighted with (!) are modified, the controller must be switched off and switched on again to ensure correct operation.
It is recommended to switch the instrument off and on again each time the parameter configuration is changed to prevent malfunctions on the configuration and/or timings in progress.

EN

13.4. BT PARAMETERS

PARAMETER	DESCRIPTION	VAL
CP	**“CP” COMPRESSOR PARAMETERS**	
diF	Differential. Compressor relay tripping differential: the compressor stops on reaching the Setpoint value set (as indicated by the adjustment probe), and restarts at temperature value equal to the Setpoint plus the value of the differential.	2
HSE	Higher Set. Maximum value attributable to the Setpoint.	-10
LSE	Lower Set. Minimum value attributable to the Setpoint.	-20
OSP	Offset SetPoint. Temperature value to be added algebraically to the SetPoint when reduced set is enabled (Economy function). Activation can be by digital input or by a button, configured for the purpose.	0
Cit	Compressor min on time. Minimum compressor activation time before compressor deactivation. If set to 0, it is not active.	0
Cat	Compressor MAX on time. Maximum compressor activation time before compressor deactivation. If set to 0, it is not active.	0
dOd	Digital (input) open door. Digital input switches utilities off.Y=yes; n=no. Valid for parameter H11= ±4 (door micro).	n
dAd	Digital (input) Activation delay. Delay time in the activation of the digital input.	0
CP	**COMPRESSOR PROTECTIONS**	
Ont	On time (compressor). Compressor activation time if probe is faulty. If set to “1” with Oft at “0” the compressor always remains on, while for Oft>0 it operates in duty cycle mode.	5
Oft	OFF time (compressor). Compressor deactivation time if probe is faulty. If set to “1” with Ont at “0” the compressor always remains off, whereas for Ont>0 it operates in duty cycle mode.	7
dOn	Delay (at) On compressor. Compressor relay activation delay time from call.	0
dOf	Delay (after power) OFF. Delay time after switch-off; the indicated time must elapse between switching off the compressor relay and the next switch-on.	0
dbi	Delay between power-on. Delay time between switch-on; the specified time must elapse between two successive switch-on of the compressor.	1
OdO	Delay output (from power) On. Output activation delay time from instrument switch-on or after a power failure.	0
Def	**DEFROST REGULATOR (folder labelled “dEF”)**	
dty	Defrost type. Type of defrosting. 0 = electric defrosting. 1 = reverse cycle defrosting (hot gas) 2 = defrosting with Free cycle mode (compressor deactivation)	0
dit	Defrost interval time. Interval time between two successive defrosts.	5

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PARAMETER	DESCRIPTION	VAL
dt1	Defrost time1. Unit of measurement for defrosting intervals (parameter “dit”) 0 = parameter “dit” expressed in hours 1 = parameter “dit” expressed in minutes 2 = parameter “dit” expressed in seconds	0
dt2	Defrost time 2. Unit of measurement for defrosting intervals (parameter “dEt”) 0 = parameter “dEt” expressed in hours 1 = parameter “dEt” expressed in minutes 2 = parameter “dEt” expressed in seconds	1
dCt	Defrost Counting type. Selection of count mode for the defrosting interval. 0 = compressor hours in operation (DIGIFROST method) 1 = Real Time - device hours in operation 2 = compressor stop.	1
dOH	Defrost offset time. Time delay for the start of the first defrost from instrument switch-on.	0
dEt	Defrost Endurance time. Defrost time-out; determines the maximum duration of defrosting.	30
dSt	Defrost stop temperature. Defrost stop temperature (defined by the evaporator probe).	12
dPO	Defrost (at) power On. Determines if at the start-up the instrument must enter defrosting (provided the measured temperature allows this) y = yes; n = no.	n
tcd	Time compressor for defrost. Minimum compressor ON or OFF time before defrost.	0
Cod	Compressor OFF (before) defrost. Compressor OFF time in the vicinity of the defrost cycle. If there is a defrost within the time set for this parameter, the compressor is not switched on.	0
	FAN REGULATOR (folder labelled “Fan”)	
FPt	Fan Parameter Type. Parameter mode “FSt” which can be expressed either as an absolute temperature value or as a value relative to the Set Point. 0 = absolute 1 = relative.	0
FSt	Fan Stop Temperature. Fan lock temperature; if the value, read by the evaporator probe, is higher than the set value, the fans stop.	-5
Fot	Fan ON-Start temperature. Fan start temperature; if the temperature on the evaporator is lower than the value set in this parameter, the fans remain stopped.	-50
Fad	Fan differential. Fan activation differential (see par. "FSt" and "Fot")	2
Fdt	Fan delay time. Fan activation delay time after a defrost.	3
dt	Drainage time. Dripping time.	3
dFd	Defrost Fan disable. Allows you to select whether or not to exclude the evaporator fans during defrosting. Y = yes ; n = no.	y

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PARAMETER	DESCRIPTION	VAL
FCO	Fan compressor OFF. Allows you to select whether or not to lock the fans when the compressor is OFF. y = active fans (thermostat-controlled: depending on the value read by the defrost probe. See parameter “FSt”); n = fans off. d.c. = duty cycle (via “Fon” parameters)	y
Fod	Fan OFF (with opened) door. Fans active with the door open. Y = yes; n = no.	n
FdC	Fan delay Compressor off. Fan switch-off delay time after compressor stop.	0
Fon	Fan on (in duty cycle). Fan ON time per duty cycle. Use of fans in duty cycle mode; valid for FCO = d.c.	0
FoF	Fan OFF (in duty cycle). Fan OFF time for FCO = d.c.	0
	ALARMS (folder labelled “AL”)	
Att	Allar type. Parameter modes “HAL” and “LAL” as absolute temperature value or as differential to SetPoint. 0 = absolute value; 1 = relative value.	0
Afd	Allar fan differential. Alarms differential.	2
HAL	Higher Alarm. Maximum temperature alarm. Temperature value (understood as distance from SetPoint), the exceeding of which upwards will trigger the activation of the alarm signal	8
LAL	Lower Alarm. Minimum temperature alarm. Temperature value (understood as distance from Setpoint), the exceeding of which downwards will trigger the activation of the alarm signal.	-5
PAO	Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.	2
Dao	Defrost alarm override. Alarm exclusion time after defrost.	30
OAO	Output (door) Alarm override. Signalling delay time	0
tdO	Time-out door open. Alarm signalling time out after activation of the digital input (door opening).	0
Tao	Temperature Alarm Override. Temperature alarm signal delay time.	60
dAt	Defrost Alarm time. Alarm signal for defrost terminated due to time-out. N=enable alarm; y = do not enable alarm.	n
EAL	External Alarm Lock. External alarm locks regulators; locks compressor, defrost and fan regulators if the digital input (configured as external alarm) is activated n = does not lock; y = locks.	n
AOP	Alarm Output Polarity. Alarm output polarity. 0 = alarm active and output disabled.	1

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PARAMETER	DESCRIPTION	VAL
	COMMUNICATION (folder labelled “Add”)	
Dea	Device address. Device address: indicates the management protocol of the device address.	0
FAA	Family address. Family address: indicates the management protocol of the device family.	0
diS	**DISPLAY (folder labelled “diS”)**	
LOC	(Keyboard) LOCK. Keypad lock. However, there remains the possibility to go into parameter programming and change parameters, including the status of this parameter to allow the keypad to be unlocked. Y = yes (keyboard locked); n = no.	n
PA1	Password 1. When enabled (value other than 0), it is the access key for level 1 parameters.	0
PA2***	Password 1. When enabled (value other than 0), it is the access key for level 2 parameters.	0
ndt	Number display type. Display with decimal point. Y = yes; N = no.	y
CA1	Calibration 1. Calibration 1. Positive or negative temperature value that is added to the value read by probe 1, depending on the setting of parameter CA.	0
CA2	Calibration 2. Calibration 2. Positive or negative temperature value that is added to the value read by probe 2, depending on the setting of parameter CA.	0
CA	Calibration Invention. Offset intervention on display, thermostatting or both. 0 =	2
LdL	Low display Label. Minimum value that can be displayed by the instrument.	-55
HdL	High display Label. Maximum value that can be displayed by the instrument.	140
ddL	Defrost display lock. Viewing mode during defrosting. 0 = displays the temperature read by the temperature control probe;	1
dro	Display read-out. Select °C or °F for displaying the temperature read by the probe. 0 = °C, 1 = °F.	0
ddd	Selection of type of value to be displayed. 0=SetPoint.	1
	CONFIGURATION (folder labelled “CnF”)	
H00 (!)	Probe type selection, PTC or NTC. 0 = ptc; 1 = NTC.	1
H02	Key activation time, when configured with a second function.	5
H11	"Configurability of digital inputs/polarity. 0=disabled;"	4
H21	"Configurability of digital output1. 0=disabled;"	1
H22	"Configurability of digital output 2. Similar to H21."	2
H23	"Configurability of digital output 3. Similar to H21."	3

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PARAMETER	DESCRIPTION	VAL
	DESCRIPTION	
H25 (3)	"Configurability of buzzer output. Angle at H21."	4
H31	"Configurability of UP key. 0=disabled;"	1
H32	"Configurability of DOWN key. 0=disabled;"	0
H33	"Configurability of ESC key. 0=disabled;"	0
H41	Adjustment probe presence.	y
H42	Evaporator probe presence.	y
reL	ReLease firmware. Device version: read only parameter.	22
tAb	Table of parameters. Reserved: read only parameter.	3
	COPY CARD (folder labelled "Fpr")	
UL	Upload. Programming parameter transfer from instrument to Copy Card.	n
dl	Download. Programming parameter transfer from Copy Card to instrument.	n
Fr	Format. Deletion of all data entered on the key.	

PLEASE NOTE: the use of the “Fr” parameter (formatting the key) results in the definitive loss of the data entered on the same. This operation cannot be cancelled. (1) See Duty Cycle diagram.

(!) If one or more of these parameters highlighted with (!) are modified, the controller must be switched off and switched on again to ensure correct operation.

(1) For 230 V~ models the default value is 1 (NTC input, see label on instrument).

(2) Positive values: input active for closed contact; negative values: input active for open contact.

(3) Parameter visible in models with optional buzzer.

* VALUE column: to be filled in, by hand, with any customised settings (if different from the default value).
** LEVEL column: indicates the level of visibility of parameters accessible via PASSWORD (see relevant paragraph)
*** PA2 is visible (will be required, if any) at level 1 and can be set (changed) at level 2.